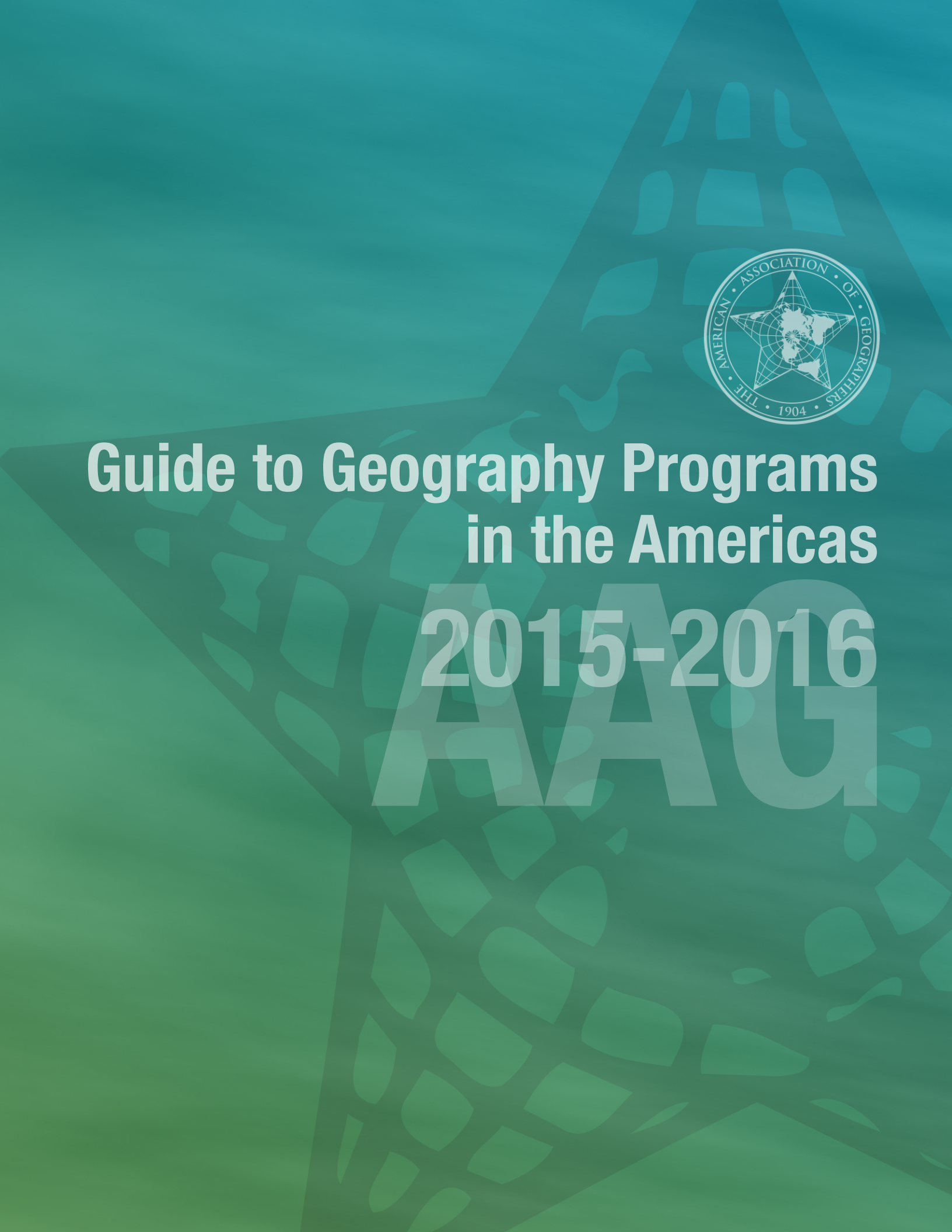


Guide to Geography Programs in the Americas

2015-2016

AAG



Guide to Geography Programs in the Americas

2015-2016

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ABOUT THE AMERICAN ASSOCIATION OF GEOGRAPHERS

The Association
The American Association of Geographers (AAG) is a scholarly, nonprofit organization founded in 1904 to advance professional studies in geography and to encourage the application of geographic research in business, education and government. The AAG was amalgamated with the American Society of Professional Geographers (ASPG) in 1948. From a charter membership of 48 in 1904, Association membership has grown to 11,735 at the end of 2015. Any person or organization interested in the AAG's objectives is eligible for membership. Most professional geographers in the United States and many in Canada and abroad are members of the AAG.

Membership Benefits

- *The Annals of the American Association of Geographers (*bimonthly*)*
- *The Professional Geographer* (quarterly)
- *The AAG Review of Books* (quarterly)
- *GeoHumanities* (biannually)
- The AAG Online Newsletter
- Participation in annual, regional and special topical meetings at reduced member rates
- Group insurance plans, including professional liability insurance
- Participation in AAG committees, commissions and projects
- Membership in one of nine AAG regional divisions
- Optional membership in up to six AAG affinity and specialty groups
- Discounts on AAG publications
- Discounts on selected journals and books from other publishers
- Engagement with a global community of leading geography researchers, scholars and educators through special AAG initiatives and through an extensive network of online collaborative resources

Specialty Groups and Affinity Groups
Affinity and Specialty groups sponsor annual meeting sessions and workshops, publish newsletters and engage in other activities that advance their professional and scholarly interests. The groups elect officers and report annually on their activities to the AAG Council. AAG membership includes participation (optional, at additional cost) in up to six specialty groups.

Annual Meetings
In recent years, over 9,000 individuals have attended AAG annual meetings, which are held in March or April. Delegates read papers, give poster presentations and participate in field trips, panels, symposia and workshops. Future meetings are scheduled for Boston (2017), New Orleans (2018) and Washington, DC (2019).

Publications

- *The Annals of the American Association of Geographers* (bimonthly) contain major articles of scholarly interest to a broad audience, book reviews and commentary.
- *The Professional Geographer* (quarterly) features short articles on timely topics, book reviews and commentary.
- *The AAG Review of Books* (quarterly) holds scholarly book reviews as formerly published in the AAG's flagship journals, *Annals of the AAG* and *The Professional Geographer,* along with reviews of significant current books related more broadly to geography and public policy and/or international affairs.
- *GeoHumanities* (biannually) is the newest journal of the AAG, launched in 2015, and features articles that span conceptual and methodological debates in geography and the humanities; critical reflections on analog and digital artistic productions; and new scholarly interactions occurring at the intersections of geography and multiple humanities disciplines.

AAG Newsletter
The online AAG Newsletter provides news and information on current activities and opportunities across a broad spectrum of geographic research, teaching and practice. It also publishes presidential columns, necrologies, AAG council meeting minutes, committee reports, opinion pieces and member news.

Jobs & Careers
The AAG Jobs in Geography Center is the preeminent source of academic jobs in geography, as well as a wide variety of jobs in geography related fields in the public, private, and nonprofit sectors. The searchable database connects employers with thousands of potential employees and gives users the ability to create an account, store resumes, set up alerts, and more.

Guide to Geography Programs in the Americas, AAG Handbook and Member Directory
The Guide, AAG Handbook and Member Directory describe geography programs in North American and Latin American colleges and universities and include geographers (AAG members) employed in academic institutions, government agencies and private firms.

AAG Knowledge Communities
The online AAG Knowledge Communities provide a forum for AAG members, specialty groups, and others to interact and communicate with one another around the world.

Information on AAG membership and Annual Meetings may be obtained from the American Association of Geographers, 1710 16th Street NW, Washington, DC 20009-3198. Phone 202-234-1450. Fax 202-234-2744. Email: membership@aag.org http://www.aag.org

PREFACE

The 2015-2016 edition of the *Guide to Geography Programs in the Americas* describes degree requirements, curricula, faculty qualifications, program specialties, financial assistance and degrees completed for colleges and universities that offer undergraduate and graduate programs in geography in the Americas. The Guide also includes information about government agencies, private firms and research institutions that employ geographers.

The 2015-2016 *Guide* lists a total of 105 academic institutions in the United States, Canada and Latin America known to offer a doctorate in geography. The volume also contains information on 75 institutions in which the master's is the highest degree offered and 266 that offer bachelor's degrees in geography.

The AAG Handbook contains the Association's governance documents; lists of the current AAG Council, committees and appointees; information on past AAG officers; membership and annual meeting data; details regarding regional division and specialty groups; and tabulations of recipients of AAG honors and awards.

A list of recently completed theses and dissertations begins on page 307. It provides a permanent record of graduate research in geography.

The AAG Member Directory contains member information including names, companies or institutions, addresses, telephone numbers, e-mail addresses, degrees and dates earned, topical and areal expertise, and specialty group membership.

The AAG Knowledge Communities provide a forum for AAG members, specialty groups, and others to interact and communicate with one another around the world.

I thank the many individuals who have made the Guide possible, especially the geography program chairs and assistants who provided information for this edition, and Mark Revell, who edited and compiled this information.

The Guide has proven to be a useful tool for students selecting undergraduate and graduate programs, for faculty members advising students and for geographers throughout the Americas and the world. I welcome your suggestions for improvements to future editions of the online *Guide to Geography Programs in the Americas*.

Douglas Richardson
Executive Director

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UNITED STATES

ALABAMA

AUBURN UNIVERSITY

DEPARTMENT OF GEOSCIENCES
DATE FOUNDED: 1999
DEGREES OFFERED: B.A. in Geography; B.S. in Geology; M.S. in Geography; M.S. in Geology; Accelerated BA/MS in Geography
GRANTED 9/1/14-8/15/15: 9 B.A. Geography; 13 B.S. Geology; 8 M.S. Geography; 11 M.S. Geology
MAJORS: 20 Undergrad Geography; 58 Undergrad Geology; 7 Graduate Geography; 25 Graduate Geology
CHAIR: Mark Steltenpohl
PROGRAM ADMINISTRATIVE ASST: Audrey Hollis

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geosciences, 210 Petrie Hall, Auburn University, Auburn, Alabama 36849. Telephone (334) 844-4074. Fax (334) 844-3409. E-mail: steltmg@auburn.edu.
Internet:
http://www.auburn.edu/academic/cosam/departments/geosciences/index.htm

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences at Auburn University offers both graduate and undergraduate majors in Geography the opportunity to join faculty in their research in geospatial analysis, human geography, environmental management, hazards, geomorphology, water resources, biogeography, and climatology. Graduate study will place a special emphasis upon applied research as it relates to these sub-disciplines. Supplementing coursework is the department's map collection and a geographic information systems laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major program in Geography is the same as that for admission to the College of Sciences and Mathematics. In addition to the University Core Curriculum requirements, undergraduate majors are expected to take Physical Geography, Cultural Geography, Cartography, Aerial Photography and Remote Sensing, and Geographic Information Systems. Fifteen additional hours of geography, two semesters of a foreign language and a statistics course are also required for the major. Undergraduate majors are eligible for earning credit through internal and external internship programs. Exceptional undergraduate students are encouraged to apply for the Accelerated BA/MS program in Geography which allows both degrees to be earned in a total of five years.

Admission to the graduate program in Geography requires admission to the Auburn University Graduate School as well as the completion of a Bachelors degree in Geography or related field, a minimum undergraduate G.P.A. of 3.0, letters of support, and an acceptable GRE score. Both thesis and non-thesis degree options are available. In both cases, students are required to take courses in Geographic Thought and Quantitative Methods and Spatial Analysis. Students choosing the thesis option will work in consultation with faculty to craft a program of study reflecting their research interests that includes at least 18 additional graduate hours of coursework and a thesis research project (6 credit hours). Students who follow the non-thesis option will complete a customized program of study that includes a minimum of 33 additional credit hours as well as successfully complete written and oral comprehensive examinations. Graduate applicants are eligible to apply for a graduate teaching or research assistantship that includes a tuition waiver and stipend.

FACULTY:
Carmen Brysch, Ph.D., Texas State University, 2014, Lecturer – geography education
Christopher Burton, Ph.D., University of South Carolina, 2012, Assistant Professor — GIS modeling of climate change related hazards both from a physical risk and vulnerability perspective
Philip L. Chaney, Ph.D., Louisiana State University, 1999, Associate Professor — water resources, natural hazards, coastal geography
Luke Marzen, Ph.D., Kansas State University, 2001, Professor — remote sensing, GIS, human and environmental interface, biogeography, land use change
Daniel McGowin, Ph.D., Florida State University, 2011, Lecturer — cultural, political, ethnicity, sports
Chandana Mitra, Ph.D., University of Georgia, 2011, Assistant Professor — climatology, urban climate, geospatial techniques, climate modeling
Stephanie L. Shepherd, Ph.D., University of Arkansas, 2010, Assistant Professor — fluvial geomorphology, environmental impacts, climate change

EMERITUS FACULTY:
Cyrus B. Dawsey, Ph.D., University of Florida, 1975, Professor Emeritus — Latin America, computer cartography and graphics
Tom L. Martinson, Ph.D., University of Kansas, 1969, Professor Emeritus — Latin America and geographic thought

UNIVERSITY OF ALABAMA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1903
GRADUATE PROGRAM FOUNDED: 1963
DEGREES OFFERED: B.A., B.S., M.S. in Geography; B.S. in Environmental Science
GRANTED 6/1/13-5/31/14: 43 Bachelors, 9 Masters
STUDENTS IN RESIDENCE: 160 Majors, 32 Masters
NOT IN RESIDENCE: 3 Masters
CHAIR: Douglas Sherman
DEPARTMENT ADMINISTRATIVE ASSISTANT: Leigh Ann Franklin

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Justin Hart, Department of Geography, Box 870322, 204 Farrah Hall, University of Alabama, Tuscaloosa, Alabama 35487-0322. Telephone (205) 348-5047. Fax (205) 348-2278. E-mail: hart013@bama.ua.edu. Internet: www.as.ua.edu/geography.

PROGRAMS: The curricula supporting the B.A. and B.S. degrees in Geography and Environmental Scienc and the M.S. degree in Geography are designed to prepare students in the fields of applied geography, biogeography, climatology, geomorphology, geospatial analysis, human-environment interactions, and planning. The B.S. in Environmental Science is an interdisciplinary program that requires coursework in geography and other natural sciences. The graduate program emphasizes a thesis-oriented approach to develop theoretical and methodological expertise and allows students to concentrate in human or physical geography with a broad range of options within each.

RESEARCH FACILITIES: The Department is located in a 30,000 square foot facility near the center of campus. The Department operates the Earth Surface Dynamics Laboratory, which is well

equipped for field investigations and laboratory analyses pertaining to geomorphology, soils, and watershed science. The Forest Dynamics Laboratory supports study of forest development and successional patterns, forest ecosystem ecology, and ecological plant geography. The physical lab comprises four rooms each devoted to specific tasks and the lab is well equipped for projects in forest research and dendrochronology.

The UA Library System includes six separate libraries and the university is a member of the Association of Research Libraries. The collections include over two million books, journals, and microforms, and receives more than 16,000 periodicals, serials, and newspapers. Geospatial Information Services within the Department include the GIS and Remote Sensing Laboratory, Cartographic Research Laboratory, and the University Map Library. The GIS and Remote Sensing Laboratory maintains a state-of-the-art facility for GIS data input, database management, spatial analysis and manipulation, and information output, as well as digital image processing of remotely sensed data. The Cartographic Research Laboratory is designed to operate in an instructional and production environment. The University Map Library, managed by the Department, contains over 350,000 maps and 75,000 aerial photographs. In addition to providing public reference service, the Map Library functions as a research unit.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The graduate academic program requires the completion of 30 to 39 graduate semester hours with at least two-thirds being courses numbered 500 or above. Six to nine hours of electives in related fields are allowed with departmental approval. The Certificate in Regional and Urban Planning, an option, includes courses in Public Administration, Economics, and Geography and may be attached to a graduate degree in Geography. The program is open to qualified students with either an undergraduate major in geography or a major acceptable to the Department. A combined score of at least 300 on verbal and quantitative portions of the GRE and an undergraduate B average are required for unconditional admission.

Fellowships, teaching and research assistantships ranging from $14,000 to $15,000 for the academic year are regularly granted on a competitive basis. Two cartographic assistantships are available in the Cartographic Research and GIS Research Labs. Most assistantships include tuition waivers and health insurance.

FULL-TIME FACULTY:

Seth Appiah-Opoku, Ph.D., Waterloo, 1997, Associate Professor — urban and regional planning, environmental planning and management, Africa

Bennett L. Bearden, J.S.D., Pacific, 2011, Research Professor and Director, Water Policy and Law Institute – water resources, policy, management

Sagy Cohen, Ph.D., Newcastle, 2010, Assistant Professor – GIS, numerical modeling, geomorphology

M. A. Lisa Davis, Ph.D., Tennessee, 2005 Associate Professor — geomorphology, watershed processes, and environmental change

Steven P. Ericson, Ph.D., Oklahoma State, 2014, Instructor — human geography, sports geography

Luoheng Han, Ph.D., Nebraska, 1994, Professor and Associate Dean — remote sensing, GIS, water quality

Justin L. Hart, Ph.D., Tennessee, 2007, Associate Professor, Director of Graduate Admissions and Recruitment and Director of the Environmental Science Program — biogeography, vegetation dynamics, natural resource management

David J. Keellings, Ph.D., Florida, 2015, Assistant Professor – climatology, weather hazards, medical geography, quantitative methods

Matthew C. LaFevor, Ph.D., Texas, 2014, Assistant Professor – water management, agro-ecology, conservation, Latin America, GIS

Mary W. Pitts, M.S., London, 1989, Instructor and Director of Undergraduate Studies — natural hazards, environmental site assessment, and water resources

Sarah Praskievicz, Ph.D., Oregon, 2014, Assistant Professor — water resources, climate change, hydrology

Jeffrey P. Richetto, Ph.D., Ohio State, 1977, Associate Professor — urban and regional planning, economic, and industrial/retail site analysis

Jason C. Senkbeil, Ph.D., Kent State, 2007, Associate Professor — severe weather hazards, climatology

Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair — geomorphology, coastal, aeolian

Michael K. Steinberg, Ph.D., Louisiana State, 1999, Associate Professor of New College and Geography — cultural ecology, biogeography, endangered species

Matthew D. Therrell, Ph.D., Arkansas, 2003, Associate Professor — dendrochronology, climate reconstruction, biogeography

Joe Weber, Ph.D., Ohio State, 2001, Professor and Director of Graduate Studies — transportation, national parks, GIS, urban geography

EMERITUS FACULTY

C. Hobson Bryan, Ph.D., Louisiana State, 1968, Professor — environmental analysis, social impact assessment, resource management, recreation

David Shankman, Ph.D., Colorado, 1986, Professor – biogeography, bioclimatology, environmental conservation and planning

Bobby M. Wilson, Ph.D., Clark, 1974, Professor — urban geography, social geography, North America

ADJUNCT FACULTY:

Thomas J. Kallsen, M.S., Alabama, 1980, M.L.S., Emporia State, 1983, Map Library Supervisor — map reading and interpretation skills, topology and toponymy

Craig Remington, M.S., Florida State, 1981, Cartographic Lab Supervisor — traditional and computer cartography, world regional

Angelica Almeyda Zambrano, Ph.D., Stanford, 2012 — political ecology, conservation and development

UNIVERSITY OF NORTH ALABAMA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1929
DEGREES OFFERED: B.A., B.S. in Geography; B.A., B.S. in Geographic Information Science; M.S. in Geospatial Science
GRANTED 9/1/15-7/31/16: 28 Bachelors, 4 Masters
MAJORS: 111
CHAIR: Francis T. Koti
DEPARTMENT ADMINISTRATIVE ASST: Pam Bishop
GRADUATE PROGRAM COORDINATOR: David Brommer (256) 765-6307

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Francis T. Koti, Department of Geography, University of North Alabama, Florence, AL 35632-0001. Telephone (256) 765-4219, Fax (256) 765-4141, E-mail: ftkoti@una.edu, Internet: www.una.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The department offers two undergraduate major programs: Geography and Geographic Information Science. The major in Geographic Information Science is directed towards careers in applied geography and requires advanced courses in remote sensing and Geographic Information Systems, as well as in statistics, computer science, and computer information systems. The Geography major is for students interested in careers in government, business and industry, and geographic education. The

department supports internships and co-op experience in urban and regional planning, GIS, public utilities, and environmental management. The department also offers an M.S. in Geospatial Science. The department houses the Freddie Wood Geographic Research Center, which has 36 computers dedicated to undergraduate GIS, remote sensing, and GPS applications, as well as a separate computer lab for graduate students. Software includes: ERDAS Imagine, ArcGIS, and a variety of web development tools.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Office of Admissions requires ACT score, transcript, and application. Financial assistance is available by application to the Financial Aid Office.

FACULTY:

David M. Brommer, Ph.D., Arizona State University, 2006, Associate Professor — physical geography, climatology, meteorology, environmental hazards

Jonathan P. Fleming, Ph.D., Mississippi State University, 2012, Assistant Professor — biogeography, physical geography, cartography, GIS, applied geospatial analysis, South

Gregory G. Gaston, Ph.D., Oregon State University, 1993, Professor — geomorphology, physical geography, remote sensing, climatology, GIS

Francis T. Koti, Ph.D., West Virginia University, 2004, Professor — urban geography, urban and regional planning, GIS, Africa

Lisa Keys-Mathews, Ph.D., University of Memphis, 2007, Professor — environmental hazards, GIS, remote sensing, cartography

Mario A. Mighty, Ph.D., University of Florida, 2014, Assistant Professor — agriculture, GIS, economic development, sustainability, Caribbean

Michael Pretes, Ph.D., Australian National University, 2006, Professor — geopolitics, historical geography, public lands, tourism, Australia, Pacific, Arctic, western North America

Sunhui Sim, Ph.D., Florida State University, 2010, Assistant Professor — urban remote sensing, urban geography, urban growth modeling, GIS for natural resources management and landscape ecology

EMERITI FACULTY:

Gary M. Green, M.A., University of Georgia, 1976
Priscilla Holland, Ed.D., University of Alabama, 1997
William R. Strong, Ph.D., University of Texas, 1979

UNIVERSITY OF SOUTH ALABAMA

DEPARTMENT OF EARTH SCIENCES
DATE FOUNDED: 1964
DEGREES OFFERED: B.S. Geography; minors in Geography and Geographic Information and Technology
GRANTED 9/1/15-8/31/16: 15 Bachelors
MAJORS: 55
CHAIR: Sytske Kimball
DEPARTMENT ADMINISTRATIVE ASSISTANT: Cathi Miller

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Sytske Kimball, Chair, Department of Earth Sciences, 5871 USA Dr. N., Room 136, University of South Alabama, Mobile, Alabama 36688. Telephone (251) 460-6381. Fax (251) 461-1487.
E-mail: skimball@southalabama.edu.
Internet:
http://www.southalabama.edu/colleges/artsandsci/earthsci/geography/index.html.

PROGRAMS AND RESEARCH FACILITIES: The Earth Sciences Department offers a B.S. in Geography, minors in Geography and GIS, and a 6-course GIS certificate. A major in geography gives each student a balanced education in the fundamental aspects of geography as well as several courses in geographic techniques. Majors take introductory courses in human, physical, and world geography, plus cartography, remote sensing, research methods, and field work. Students must also take six additional upper division courses from the following categories: human, physical, regional, and technical. As part of the six upper division courses, students have the option of taking a field course that focuses on a particular part of the country. Geography majors are required to have minors and frequently choose GIS, Geology or Meteorology, further strengthening their education in the Earth Sciences. The GIS minor requires students to take Python programming and five additional courses; students may take application courses in GIS, web mapping, and advanced remote sensing, in addition to other course offerings. The department has two state-of-the-art computer labs and a wet lab. The department and faculty support and encourage student participation in conferences, internships, and field trips. Two student organizations, the Delta Lambda chapter of Gamma Theta Upsilon and the Geography Club, both organize trips to geography conferences annually.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. The department offers several scholarships in geography; in addition, awards are given for outstanding students in GIS and the Delta Lambda Chapter of GTU. For admission and financial aid information go to www.southalabama.edu/admissions.

FACULTY

Karen J. Jordan, M.Sc., University of Alabama, 2005, Senior Instructor — Physical geography, remote sensing

Frances C. Mujica, Ph.D., Louisiana State University, 2007, Assistant Professor — Geography of health, Latin America, international tourism

Roy H. Ryder, Ph.D., University of Florida, 1989, Professor — Latin America, cartography, remote sensing

Carol F. Sawyer, Ph.D. Texas State University, 2007, Associate Professor — Geomorphology, alpine geography, natural hazards

Steven R. Schultze, Ph.D. Michigan State University, 2015, Assistant Professor — Climatology, agriculture, biogeography, sports geography

Samuel T. Stutsman, M.Sc., University of Alabama, 1993, Senior Instructor — Physical geography, GIS

EMERITUS FACULTY

Lary M. Dilsaver, Ph.D., Louisiana State University, 1982, Professor Emeritus

Miriam L. Fearn, Ph.D., Louisiana State University, 1995, Associate Professor (Retired)

Victoria Rivizzigno, Ph.D. The Ohio State University, 1976, Associate Dean, College of Arts and Sciences, and Associate Professor (Retired)

Glenn R. Sebastian, D.A. University of Northern Colorado, 1977, Associate Professor Emeritus (Deceased)

Eugene M. Wilson, Ph.D., Louisiana State University, 1969, Professor Emeritus

Aaron Williams, Jr., Ph.D., University of Oklahoma, 1971, Associate Professor Emeritus

ADJUNCT

T. Shawn Mitchell, Ph.D. Louisiana State University, 2007 — Cultural geography

D. Holly Park, Auburn University, 2014 — Human geography

Cory Rhodes, M.Sc., University of Alabama, 2012 — Physical geography

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS

DEPARTMENT OF GEOSCIENCES
DATE FOUNDED: 1967
DEGREES OFFERED: B.A. Geography, B.S. Geography, B.A. Earth Sciences, B.S. Geosciences, M.S., Ph.D. Geography, M.S., Ph.D. Geology, M.S., Ph.D. Geophysics
DEGREES GRANTED 7/1/14-6/30/15: 5 Geography Bachelors, 10 Geoscience Bachelors, 1 Earth Science Bachelors, 15 M.S., 11 Ph.D.
STUDENTS IN RESIDENCE: 30 Geography Majors, 60 Geoscience Majors, 4 Earth Science Majors, 40 M.S., 30 Ph.D.
GEOSCIENCES DEPARTMENT CHAIR: Paul McCarthy
GEOGRAPHY PROGRAM CHAIR: Cary W. de Wit
ADMINISTRATIVE ASSISTANT: Barbara Day

FOR CATALOG AND FURTHER INFORMATION CONTACT: Barbara Day, Administrative Assistant, Department of Geosciences, PO Box 755780, University of Alaska Fairbanks, Fairbanks, AK, 99775-5780. Telephone (907) 474-7565. Fax: (907) 474-5163.
Email: uaf-geosciences@alaska.edu
Web: http://www.uaf.edu/geology/geography/

GEOGRAPHY PROGRAMS AND RESEARCH FACILITES: Program specialties: Alaska, Circumpolar North, North America, Climate & Environmental Change, Human Dimensions of Climate Change, Geospatial Sciences, and Environmental Studies. UAF offers unparalleled access to northern environments and cultures for coursework, research, and internships. Within easy reach are glaciated landscapes of all ages, active glaciers, tundra, permafrost, boreal forest, temperate rainforest, sea ice, thermal springs, streams of all sizes, bush villages, mine sites, and wilderness. Foreign exchange relationships allow students to study in Australia, Norway, U.K., Siberia, Yukon Territory, Quebec, Ontario, and Newfoundland, among others. Internship opportunities include placement with the Alaska Satellite Facility, Alaska Division of Forestry, Alaska Department of Natural Resources, Alaska Coastal Research Center, Alaska Department of Fish and Game, National Park Service, National Forest Service, Bureau of Land Management, National Weather Service, and U.S. Geological Survey.

The B.A. in Geography gives students a broad understanding of the interactions among the physical environments, economics, political events, and cultures in various regions of the world, with special emphasis on the Arctic, and equips students with the ability to interpret contemporary geopolitical and environmental issues. The degree program can be tailored to prepare students for teaching geography or social science in K-12 schools, for professional work in government or industry, or for graduate study.

The Program offers three B.S. degree concentrations: Landscape Analysis and Climate Change Studies, Geospatial Sciences, and Environmental Studies. Each degree option gives students an understanding of the fundamental components of the natural environment, fosters an interdisciplinary perspective on environmental issues, equips students with a diverse selection of technical and scientific approaches to environmental analysis, and enhances their ability to formulate balanced solutions to contemporary environmental problems. Our Geography B.S. graduates readily find professional positions in national, state, and local government agencies, in private industry, and in research settings.

The program administers several K-12 programs, including: teacher training, outreach, and curriculum development throughout the state of Alaska, in collaboration with the National Geographic Society; and a technology-focused collaborative education outreach program with Google Earth. All of these programs offer undergraduate and graduate students opportunities to engage in outreach and research collaborations.

Situated in the heart of interior Alaska, UAF is an ideal place to experience life in the far north. You'll experience abundant wildlife, the Northern Lights, and dramatic seasonal changes in sunlight and temperature. Year-round outdoor recreation opportunities abound on campus, around Fairbanks, and within a few-hours' drive, including downhill and cross-country skiing, hiking, river- and sea-kayaking, wilderness backpacking, rock- and ice-climbing, dog-sledding, wildlife photography, and world-class hunting and fishing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Semester system. Summer sessions also available. Admissions: Office of Admissions, University of Alaska Fairbanks, 102 Signers' Hall, P.O. Box 757480, Fairbanks, AK 99775-7480. Toll-free: (800) 478-1823, Local: (907) 474-7500. Fax: (907) 474-7097.

Email: admissions@uaf.edu. Web: www.uaf.edu/admissions. Financial Aid: Financial Aid Office, University of Alaska Fairbanks, 107 Eielson Building, P.O. Box 756360, Fairbanks, AK 99775-6360. Phone: (907) 474-7256. Fax: (907) 474-7065. Email: uaf-financialaid@alaska.edu. Web: www.uaf.edu/finaid.

GEOGRAPHY FACULTY:
Cary W. de Wit, PhD, Kansas, 1997, Associate Professor — cultural, sense of place, perceptual geography, energy geopolitics, North-American culture regions
Christopher V. Maio, PhD, University of Massachusetts-Boston, 2014, Assistant Professor — physical, coastal geomorphology, coastal environmental change, climate change
Daniel J. Mann, PhD, University of Washington, 1983, Associate Professor — quaternary studies, forest ecology, ice-age climate change, interactions between prehistoric humans and changing climate
Roger W. Pearson, PhD, Illinois, 1970, Professor Emeritus — cultural, political, northern development, geographic education, circumpolar north

GEOLOGY AND GEOPHYSICS FACULTY:
James Beget, PhD, University of Washington, 1981, Professor — quaternary geology, tephrachronology, volcanology, geomorphology
Patrick Druckenmiller, PhD, University of Calgary (Canada), 2006, Associate Professor — vertebrate paleontology specializing in Mesozoic marine reptiles; plesiosaur and ichthyosaur phylogeny; Jurassic marine reptiles of Svalbard, Norway; Alaskan dinosaurs
Hajo Eicken, PhD, University of Bremen, Germany, 1990, Professor — sea ice geophysics
Sarah Fowell, PhD, Columbia University, 1994, Associate Professor — reconstruction of ancient ecosystems and climates through identification of pollen and spores preserved in lacustrine sediments or rocks
Jeff Freymueller, PhD, University of South Carolina, 1991, Professor — seismology and volcanology
Regine Hock, PhD, ETH/Swiss Federal Institute of Technology (Zurich), 1997, Professor — glacier mass balance, glacier meteorology and hydrology
Jessica Larsen, PhD, University of California, Santa Cruz, 1996, Associate Professor — volcanology and petrology, natural hazards

Paul McCarthy, PhD, University of Guelph (Canada), 1995, Professor — paleolandscape evolution, alluvial architecture and nonmarine sequence stratigraphy

Erin Pettit, PhD, University of Washington, 2003, Assistant Professor — glacier dynamics and climate change

Anupma Prakash, PhD, Indian Institute of Technology of Roorkee, 1996, Professor — mapping Earth Surface Composition and Change; Remote Sensing and GIS

Vladimir Romanovsky, PhD, Moscow State University, 1982, PhD, University of Alaska Fairbanks, 1996, Professor — cold region soil engineering problems and modeling

Michael Whalen, PhD, Syracuse University, 1993, Associate Professor — stratigraphy and sedimentation, environmental geology

GEOGRAPHY AFFILIATE FACULTY:

Glenn *P. Juday, PhD, Oregon State, 1976, Associate Professor, Department of Natural Resources Management* — forest ecology, natural area protection and management, global climate change

David L. Verbyla, PhD, Utah State, 1988, Professor, Department of Natural Resources Management — GIS applications to resource inventory, climate change studies, and regional analysis

ARIZONA

ARIZONA STATE UNIVERSITY

SCHOOL OF GEOGRAPHICAL SCIENCES AND URBAN PLANNING

DATE FOUNDED: 1923 - became School of Geographical Sciences and Urban Planning in 2009

GRADUATE PROGRAM FOUNDED: 1961

DEGREES OFFERED: B.A., B.S., B.S.P., M.A., M.A.S., M.U.E.P., M.U.E.P. 4+1, Ph.D. in Geography and Ph.D. in Planning

Granted Bachelors: 7/1/11-6/30/2012: 149; 7/1/2012-6/30/2013: 166; 7/1/2013-6/30/2014: 158

Granted AY 2013: M.A. 11, M.A.S.-GIS 40, M.U.E.P. 19, Ph.D. Geography 15

Granted spring 2014: M.A. 1, M.U.E.P. 20, Ph.D. Geography 3

Students in Residence spring 2015: 410 Undergraduate, 141 Graduate

DIRECTOR: Elizabeth A. Wentz

FURTHER INFORMATION WRITE TO: Graduate Program Coordinator, School of Geographical Sciences and Urban Planning, Arizona State University, Box 875302, Tempe, Arizona 85287-5302. Telephone (480) 965-7533. Fax (480) 965-8313.

Email: geoplan@asu.edu Internet: geoplan.asu.edu

PROGRAMS AND RESEARCH FACILITIES: The School of Geographical Sciences and Urban Planning at ASU offers five graduate degree programs: traditional Master of Arts and Ph.D. degrees in Geography (with an option for a Masters in Passing), one professional Master's degree in Urban Planning (M.U.E.P.), a professional Master of Advanced Study (MAS) degrees in Geographic Information Systems (MAS/GIS) and Ph.D. in Planning.

The M.A. degree requires 30 semester hours beyond the bachelor's degree and a thesis. The M.U.E.P. degree requires 47 credit hours and has three different options for completion: thesis, professional project or capstone studio. The PhD degree program through the Masters in Passing (M.I.P) requires 30 semester hours of graduate credit beyond the bachelor's degree and 54 semester credits after passing the research and field examination, which constitutes advancement into the Ph.D. program. No master's thesis is required. The traditional (post master's) Ph.D. degree requires 84 semester credits of which 30 can be used from a master's degree.

The M.A. and Ph.D. degrees in Geography are focused on four broad interdisciplinary areas of inquiry: Computational Spatial Science, Cultural Geographies – Place, Culture, Identity, Earth Systems and Climate Science, and Sustainability Science and Studies.

The Master of Advanced Study degree in Geographic Information Systems (M.A.S./GIS) provides students with a balance of technological expertise, project-management skills, and application experience to prepare them for managerial and executive-level jobs. All courses in the one-year program are offered during the evenings and on weekends to accommodate full-time work schedules.

The Ph.D. in Planning focuses on four broad interdisciplinary themes that span the expertise of the faculty within the School of Geographical Sciences and Urban Planning; Community Development for Social Equity; Spatial and Economic Analysis; Transportation Planning and Policy; and Urban Design and Sustainable Cities.

ASU is transforming itself into a model for the New American University, emphasizing intellectual fusion and transdisciplinary use-inspired research, stressing local embeddedness as well as global engagement. The School of Geographical Sciences and Urban Planning is slated to play an important role in this endeavor. The School Faculty come from a range of training backgrounds and research interests and have strong affiliations with several interdisciplinary units on campus, such as the School of Human Evolution and Social Change, the School of Sustainability, and the Consortium for Science, Policy and Outcomes. Faculty play major roles in several transdisciplinary research efforts, including the Global Institute of Sustainability, the Decision Center for a Desert City, the Central Arizona-Phoenix Long Term Ecological Research Project (CAP-LTER), the State Climatologist Office, the Center for Social Dynamics and Complexity, the Decision Theater, and the GeoDa Center for Geospatial Analysis and Computation. The location of the University in the greater Phoenix metropolitan area in Southwestern United States, in close proximity of Northern Mexico and the Western mountains also provides an ideal laboratory for field research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Academic plan: semester system. Admission requirements for MA: undergraduate major in geography or 15 semester hours in geography and related fields, with a B average for the last two academic years; for M.U.E.P is undergraduate major in Urban Planning and related fields with a B average for the last two academic years; for Ph.D. Geography - Master's degree in geography or related field or equivalent, and B average at the graduate level; admission to the Ph.D. program through the Masters in Passing option is possible directly following a bachelor's degree; for PhD Urban Planning – Master's or graduate degree in urban studies, geography, environmental studies, sustainability, architecture, public policy or public administration with a B average at the graduate level. GRE scores are required and used in determining admittance into programs. The Test of English as a Foreign Language (TOEFL) required for applicants whose native language is not English; an applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

Teaching assistantships, university scholarships, and other awards are available. Teaching and Research assistantship stipends range from $15,000 to $21,000 for the academic year. Graduate assistants and

associates receive waivers of all out-of-state and in-state tuition, and health benefits.

FACULTY:

Luc Anselin, Ph.D., Cornell, 1980, Walter Isard Chair and Professor — geographic information science, spatial econometrics, regional science

Daniel D. Arreola, Ph.D., UCLA, 1980, Professor — cultural, landscapes, Mexican-American borderlands

Robert C. Balling Jr., Ph.D., Oklahoma, 1979, Professor — climatology, climate change, physical climatology, spatial statistics

Randall S. Cerveny, Ph.D., Nebraska, 1986, President's Professor — dynamic and synoptic meteorology, global climate modeling

Netra Chhetri, Ph.D., Pennsylvania State, 2007, Associate Professor — land uses & cover, human dimensions of global climate change, water resources, political ecology of resources

Katherine Crewe, Ph.D., Massachusetts, 1997, Associate Professor — planning practice and transportation; historic preservation, citizen participation, gender studies and planning, physical planning/urban design, International Urban Design

Stephanie Deitrick, Lecturer and MAS-GIS Program Director — Cartography, visualization, GIS

Ronald I. Dorn, Ph.D., UCLA, 1985, Professor — desert, hill slope, and quaternary geomorphology, dating methods, remote sensing

Megan Ehlenz, Ph.D., University of Pennsylvania, 2015, Assistant Professor — community development, anchor institutions, urban revitalization, community wealth building, shared equity models

Stewart Fotheringham, Ph.D., McMaster University, Canada, 1980 Professor — Collection, visualization and analysis of spatial data, including but not limited to: Spatial statistics; geographic information science; spatial interaction modeling; health geography; transportation; migration analysis; house price analysis, retail geography and crime pattern analysis

Janet Franklin, Ph.D., University of California, Santa Barbara, 1988, Professor — landscape ecology, biogeography, remote sensing, geographic information science

Matei Georgescu, Ph.D., Rutgers University, 2008, Assistant Professor — Modeling; climate change; land-atmosphere interactions; environmental impacts of bioenergy expansion; urbanization effects on weather and climate; modeling and simulation; scientific computing; land use change

Patricia Gober, Ph.D., Ohio State, 1975, Research Professor — population, housing demography, urban, migration

Bjoern Hagan, Ph.D., Arizona State University, 2013, Lecturer — Environmental risk perception and communication, mitigation and adaptation policies and strategies for global climate change, sustainable urban planning

Jason Kelley, Ph.D., Arizona State University, 2013, Lecturer — Urban transportation planning, environmental justice, sustainable urban planning and design

Joochul Kim, Ph.D., Michigan, 1979, Associate Professor — community planning, economic development planning, housing and international planning

Julia Koschinsky, Ph.D., Illinois, 2008, Associate Research Professor and Research Director, GeoDa Center for Geospatial Analysis and Computation — spatial analysis, housing, program evaluation, research design

Michael Kuby, Ph.D., Boston, 1988, Professor — economic geography, location analysis, energy, mathematical models and quantitative methods, transportation

Kelli L. Larson, Ph.D., Oregon State at Corvallis, 2004, Associate Professor — water science and policy, sustainability

Elizabeth Larson, Ph.D., Wisconsin, Milwaukee, 1991, Lecturer — Latin American social geography

Wei Li, Ph.D., Southern California, 1997, Professor — race and urban ethnicity, housing

Wenwen Li, Ph.D., George Mason University, 2010, Assistant Professor — Geographic information science, geospatial cyberinfrastructure, semantic interoperability

Kevin E. McHugh, Ph.D., Illinois, 1984, Associate Professor — population, social migration, geography of aging

Ariane Middel, Ph.D., University of Kaiserslautern, 2008, Assistant Research Professor — Urban climate; climate observation, modeling and simulation;

Soe Winn Myint, Ph.D., Louisiana State, 2001, Professor — environment, remote sensing

Breandán Ó hUallacháin, Ph.D., Illinois, 1982, Professor — economic, industrial location, urban, regional economic development

Martin J. Pasqualetti, Ph.D., University of California, Riverside, 1977, Professor — natural resources, energy, environmental systems, nuclear power

Robert Pahle, Ph.D., Arizona State University, 2008, Assistant Research Professor — decision science, decision support systems, high-performance computing, geographic information science and systems

Deirdre Pfeiffer, Ph.D., UCLA, 2011, Assistant Professor — housing and community development, race and class stratification, participatory planning, qualitative methods

David Pijawka, Ph.D., Clark University, 1983, Professor — sustainable planning and design, socio-economic assessments, disaster management and recovery planning, perception and behavior studies, institutional design

Sergio J. Rey, Ph.D., University of California, Santa Barbara, 1994, Professor — open source geocomputation, spatial econometrics, economic geography, regional science

Erinanne Saffell, Ph.D., Arizona State University, 2004, Lecturer — Hydroclimatology; systems of risk, vulnerability, resilience associated with extreme weather and climate events

David J. Sailor, Ph.D. University of California, Berkeley, 1993, Professor — Urban Climate Dynamics: urban climate, energy consumption, thermal comfort, and renewable energy

Deborah Salon, Ph.D. University of California, Davis, 2006, Assistant Professor — Transportation and residential location choices, urban economics, public transportation finance

Mark W. Schmeeckle, Ph.D., Colorado, 1998, Associate Professor — geomorphology, fluvial processes, earth surface transport and morphodynamics

Nancy Selover, Ph.D., Arizona State, 2005, Research Professor and Arizona State Climatologist — urban climatology, evaporation, drought, micro-climate field research

J. Duncan Shaeffer, Ph.D., Arizona State, 2001, Senior Lecturer — world regional and cultural geography

Emily Talen, Ph.D., University of California, Santa Barbara, 1995, Professor — urban form, sustainable cities, new urbanism

B. L. Turner II, Ph.D., Wisconsin, Madison, 1974, Gilbert F. White Professor of Environment and Society — human-environment relationships, land change science, sustainability, tropical forests, ancient Maya

Douglas Webster Ph.D., University of California, Berkeley, 1977, Professor — sustainable urbanization, city building in China, Southeast Asian urbanization, urban competitiveness/city development strategies

Elizabeth A. Wentz, Ph.D., Pennsylvania State, 1997, Professor — GIS, spatial analysis, environmental, urban remote sensing

ACADEMIC PROFESSIONALS:

Gale Olp Ekiss, M.Ed., Arizona State University, 1982, Co-coordinator, Arizona Geographic Alliancer — geography education

Ayan Mitra, M.S., Arizona State University, 2007, Assistant Research Professional — GIS applications and database development

Barbara Trapido-Lurie, M.A., Hawaii, 1987, Senior Research Professional — cartography

AFFILIATED FACULTY:

Ambika P. Adhikari, Ph.D., Doctor of Design, Harvard University, 1990, Research Professor — Urban sustainability, international environmental policy, clean energy program development and deployment in developing countries, climate change policy and urban planning

Bob Bolin, Ph.D., Colorado, 1976, Professor — political ecology, environmental hazards and risk, contemporary social theory, social movements and change, urban sociology/geography

Christopher Boone, Ph.D., Toronto, 1994, Professor — urbanization, urban environments, urban sustainability, environmental justice

Hallie C. Eakin, Ph.D., University of Arizona, 2002, Associate Professor — vulnerability, adaptation, global change, globalization, Latin America, Mexico, food systems, agrarian change

Kevin Robert Gurney, Ph.D., Colorado State University, 2004, Associate Professor — Global Biogeochemistry, carbon cycle, carbon-climate feedbacks, fossil fuel CO_2 emissions, climate policy.

Francisco Lara-Valencia, Ph.D., University of Michigan,2002, Associate Professor — Southwest borderlands development planning, economic development planning, urban health disparities, environmental vulnerability.

V. Kerry Smith, Ph.D., Rutgers, 1970, W.P. Carey Professor — environmental and resource economics

Michael E. Smith, Ph.D., University of Illinois at Urbana-Champaign, 1983, Professor — Archaeology; premodern urbanism; comparative urbanism; comparative inequality; historical social science; Aztec society; Mesoamerican archaeology.

Jianguo (Jingle) Wu, Ph.D., Miami University, 1991, Professor — Landscape ecology, urban ecology, and sustainability science

EMERITUS FACULTY:

Frank T. Aldrich, Ph.D., Oregon State, 1972, Professor — GIS, cartography/computer graphics, field methodology, remote sensing

Elizabeth K. Burns, Ph.D., UC Berkeley, 1974, Professor — urban, land use, transportation, urban and regional planning

Anthony J. Brazel, Ph.D., Michigan, 1972, Professor — physical, microclimatology, alpine climatology, applied meteorology

Malcolm L. Comeaux, Ph.D., Louisiana State, 1969, Professor — cultural, historical, history of geographic thought, Southwestern United States

Hemalata C. Dandekar, Ph.D. UCLA, 1978, Professor — Urban and Regional Planning

Patricia L. Fall, Ph.D. University of Arizona, 1988 — biogeography, human impact on ancient and modern environments

William L. Graf, Ph.D., Wisconsin, 1974, Regents Professor — fluvial, public land policy, arid lands

W. Donald McTaggart, Ph.D., Australian National, 1963, Professor — underdeveloped nations, urban, Southeast Asia

Robert C. Mings, Ph.D., Ohio State, 1966, Professor — recreational, tourism, economic, social

Guido G. Weigend, Ph.D., Chicago, 1949, Professor — political, Europe, Soviet Union, Southern Africa

Ruth A. Yabes, Ph.D., Cornell University, 1990, Professor — Participation, community development, international planning, planning pedagogy

ADJUNCT FACULTY:

Ronald Holle, M.S., Florida State, 1966, Meteorological Consultant

Sherwood B. Idso, Ph.D., Minnesota, 1967, U.S. Water Conservation Service Labs, USDA

Robert Maddox, Ph.D., NWS Forecast Office

Susan R. Sargent, PhD., City of Phoenix Planning Department, Arizona

Mark R. Sinclair, Ph.D., US Naval Postgraduate School, 1985, Embry-Riddle Aeronautical University

John Skindlov, Ph.D., Delaware, 1992, Salt River Project

David Whitley, Ph.D., UCLA, 1982, W&S Consultants, Cultural Resource Management

MESA COMMUNITY COLLEGE

CULTURAL SCIENCE DEPARTMENT
DATE FOUNDED: 1966
DEGREES OFFERED: A.A. with concentration in Geography; A.A.S. in Applications in Geospatial Technologies
CERTIFICATES OFFERED: Information Systems Technician, Sustainability, Global Citizenship

FOR FURTHER INFORMATION WRITE TO: Dr. Erinanne Saffell, Cultural Science Department, Mesa Community College, 1833 W. Southern Ave., Mesa, Arizona 85202.
Telephone (480) 461-7035. Fax (480) 461-7812.
E-mail: erinanne.saffell@mesacc.edu. Internet:
https://www.mesacc.edu/departments/cultural-science/geography

COURSES OFFERED: Introduction to Physical Geography, World Regional Geography, Introduction to Human Geography, Introduction to Meteorology, , Climate and Weather, Society and Environment, Landform Processes, Arizona Geography, Extreme Weather and Climate, Geographic Information Technologies, Geographic Information Science I, Geographic Information Science II, Introduction to Digital Image Processing, , , , GIS Internship, Geography Service Learning Experience.
Students may participate in departmental field trips, service learning opportunities, study abroad programs, and use of a GIS lab.

FACULTY:

Steve Bass, M.A., Michigan State University, 1987 — world regional, urban, Arizona geography

Karen E. Blevins, M.A., Arizona State University, 2002 — geographic information science

Niccole Villa Cerveny, Ph.D, Arizona State University, 2005 — physical geography, geomorphology

Clemenc Ligocki, M.A., Arizona State University, 1981 — physical geography, transportation

Michelle Pulich-Stewart, M.A.G., Texas State University, 2001 — environmental geography, sustainability

Erinanne Saffell, Ph.D, Arizona State University, 2004 — meteorology/climatology

NORTHERN ARIZONA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING, AND RECREATION
DATE FOUNDED: 1967
GRADUATE PROGRAM FOUNDED: 1990
DEGREES OFFERED: B.S. in Geographic Sciences and Community Planning; B.S. in Public Planning; B.S. in Parks and Recreation Management; M.S. in Applied Geospatial Sciences; Certificate in Parks and Recreation Management; Graduate Certificate in Geographic Information Systems; Graduate Certificate in Community Planning; M. of Administration in Community Planning and Geographic Information Systems
GRANTED 6/1/11-5/13/16: 45 Geographic Science and Planning**,** 238 Recreation, 47 Masters, 58 Masters Certificates
STUDENTS IN RESIDENCE: 52 Geographic Science and Planning, 352 Recreation, 34 Masters, 42 Masters Certificates
CHAIR: Mark Maciha
DEPARTMENT ADMINISTRATIVE ASSOCIATE: Dana Mandino

FOR FURTHER INFORMATION WRITE TO: Administrative Associate, Department of Geography, Planning, and Recreation, Northern Arizona University, NAU Box 15016, Flagstaff, Arizona 86011-5016. Telephone (928) 523-2650. Fax (928) 523-2275. E-mail: geog@nau.edu. Internet: http://nau.edu/sbs/gpr.

PROGRAMS AND RESEARCH FACILITIES: The B.S. degree is offered with majors in Geographic Science and Community Planning, and parks and recreation management. The Geographic Sciences and Community Planning major integrates geographic knowledge and GIS mapping technologies with the problem-solving fields of community planning and urban design. Known as Geodesign, this educational framework will prepare you to create more livable and sustainable communities while contributing to a better world. The Parks and Recreation Management program offers emphases in community and commercial recreation, outdoor education and leadership, Park Protection, Tourism, and Individualized Studies. The Parks and Recreation Management degree program is also available over the Internet. The department also offers a specialist program, called the Park Ranger Training Program which is one of seven ranger training programs across the United States. This program offers a national park service approved basic law enforcement training for those seeking seasonal and permanent law-enforcement ranger jobs with the national park service. For more information see the program website at www.prm.nau.edu/rangers. The Park Ranger Training is also part of the Park Protection emphasis area within the PRM degree program. The Department of Geography, Planning, and Recreation also offers a 15 semester hour undergraduate certificate in parks and recreation management over the Internet, and an 18 semester hour graduate-level certificate in GIS and a 15 semester hour graduate-level certificate in Community Planning.

We now offer a B.S. - M.S. Integrated Program in Applied Geospatial Sciences For NAU undergraduate Students Majoring in *B.S. Geographic Sciences and Community Planning and B.S. Parks and Recreation Management.* The Integrated B.S.- M.S. Program offers highly qualified and mature undergraduate students the opportunity for graduate study earlier than would normally be possible. The program is open to students who have demonstrated a mastery and commitment to the emphasis areas offered in the M.S. in Applied Geospatial Science.

Benefits of the Integrated Program include: The Graduate Record Exam (GRE) is not required. We use coursework experience in the department to evaluate this aspect of the application. Students may transfer 6 units from the B.S. degree to the M.S. degree. Students must meet with an advisor prior to application to determine the 6 units that will be transferred. These units will continue to apply to the B.S. degree, which means the student will have 6 fewer units to complete the two degrees. Students can graduate in 5 years with both a B.S. and M.S. degree, if they plan their program of study appropriately.

The MS Applied Geospatial Sciences degree plan is designed for students who want to pursue a career in understanding and managing land, community and environmental spatial systems, including geographic information systems (GIS), and remote sensing, and public planning and recreation. Both thesis and nonthesis plans are available. This nonthesis plan requires a professional applied paper that is overseen by your practicum committee.

The Geospatial Technologies Emphasis (nonthesis) is a Professional Science Master's (PSM) degree. For more information on PSM degrees, visit the website of the National Professional Science Master's Association.

NAU is ideally situated for field studies and research in geography, planning and recreation. The Grand Canyon and five other national parks and the largest American Indian reservation in the U.S. are all within a day's drive of the campus. Department research facilities include two well equipped GIS/ remote sensing labs and a Geodesign studio classroom. Our faculty members have a long-standing commitment to provide personalized attention to the needs of the individual student through close student-faculty interaction in a friendly, intellectually stimulating campus atmosphere.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system.

UNDERGRADUATE: For department information write the Administrative Associate. For university application materials write to Office of Admissions, NAU Box 4084, Flagstaff, Arizona 86011-4084.

GRADUATE: For the M.S. and GIS Certificate and Community Planning graduate certificate programs, a 3.0 GPA and undergraduate geography degree are preferred, but other majors can be accepted with course deficiencies. Teaching and research assistantships are available. Application forms must be submitted to both the NAU Graduate College and to the department. For additional information contact the Geography or GIS Program Coordinators (below) at the department address, or visit the department website. Applications received in full by August 1st (for Fall semester admissions) and January 1st (for Spring semester admissions) will receive priority consideration for graduate assistantships.
FINANCIAL AID: Office of Student Financial Aid, NAU Box 4108, Flagstaff, Arizona 86011-4108 http://nau.edu/finaid/ .

GEOGRAPHY AND PUBLIC PLANNING FACULTY:
Jessica R. Barnes, Ph.D., Ohio State, 2014; Lecturer — human geography, developing world, climate change, cultural geography. (Jessica.Barnes@nau.edu)
R. Dawn Hawley, Ph.D., Arizona State, 1994; Professor — public land policy, economic geography, urban geography, GIS, U.S., Geographic Science & Community Planning Coordinator (D.Hawley@nau.edu)
Ruihong 'Ray' Huang, Ph.D., Wisconsin-Milwaukee, 2003; Associate Professor — GIS, spatial Statistics, urban transportation planning, land use planning, geomorphology
Alan A. Lew, Ph.D., Oregon, 1986; AICP; Professor — urban planning, tourism, East and Southeast Asia
Mark Manone, M.A., Northern Arizona University; Associate Professor of Practice — GIS

Brian Petersen, Ph.D. University of California Santa Cruz, 2010. Assistant Professor — Environmental Studies, Forest Resource Management, Sustainability, Climate Change and Society. (Brian.Petersen@nau.edu)

Erik Schiefer, Ph.D., University of British Columbia, Canada, 2004; Assistant Professor — Physical Geography, GIS, and Geomorphology. Graduate Program Coordinator. (Erik.schiefer@nau.edu)

Amanda Stan, Ph.D, University of British Columbia, Canada, 2008; Lecturer --- Physical Geography, Weather and Climate, Global analysis. (Amanda.stan@nau.edu)

Margo Wheeler, MURS, FAICP. Lecturer — Community Planning, Urban Design, Capstone Studio, Planning Law and Ethics, Sustainable Tourism Development.

PARKS AND RECREATION MANAGEMENT FACULTY:

Aaron Divine, M.S., Northern Arizona University 2005; Lecturer, Outdoor Leadership Program — Outdoor Leadership, NOLS

Kathleen C. Dodd, M.S., Texas A & M 1988; Lecturer and Park Ranger Training Program Director — park ranger training, physical education and cultural resource protection.

Mark Maciha, Ph.D, Northern Arizona University 2014; Assistant Professor, Park Ranger Training Program Director --- Park protection I and II, wildland recreation, natural resources protection. Department Chair *(*Mark.Maciha@nau.edu*).*

Pamela Foti, Ph.D., Wisconsin, 1988; Professor — wildland recreation and expeditions, outdoor recreation research and policy, impact analysis, park and recreation agencies (Pam.Foti@nau.edu)

Charles Hammersley, Ph.D., New Mexico, 1988; Professor — community and commercial recreation, outdoor leadership, event planning, recreation facility development and administration; Parks and Recreation Management Program Coordinator (Charles.Hammersley@nau.edu)

Judith Montoya, M.A., New Mexico, 1985; Principal Lecturer — community and commercial recreation, recreation program planning, inclusive recreation, camp counseling

Rosanna "Marieke" Taney, M.S., Northern Arizona University 2006; Lecturer, Distance Learning Program — River rafting and outdoor education specialties

John Lynch, M.A., Northern Arizona University 2011; Lecturer --- Introduction to parks and recreation management, wilderness within, outdoor leadership I and II

EMERITUS FACULTY:

Robert O. Clark, Ph.D., Denver, 1970 — Geomorphology, climatology, meteorology, arid lands, cartography, world geography, Anglo-America

Carolyn M. Daugherty, Ph.D., Arizona State, 1987; Associate Professor — rural and small town planning, site planning, environmental resource planning

Leland R. Dexter, Ph.D., Colorado-Boulder, 1986; Professor — computer cartography, geomorphology, climate, GIS, remote sensing, field techniques; GIS Programs Coordinator (Lee.Dexter@nau.edu)

Christina B. Kennedy, Ph.D., Arizona, 1989; Professor — landscape studies, environmental perception, geography of film, resource management, environmental studies; (Tina.Kennedy@nau.edu)

Stanley W. Swarts, Ph.D., UCLA, 1975 — cartography, climate geomorphology, American Southwest, and lands

Graydon Lennis Berlin, Ph.D., Tennessee, 1970; Regents Professor — remote sensing, arid lands, geomorphology, natural hazards

George A. Van Otten, Ph.D., Oregon State, 1977 — cultural, economic, land use planning, geographic education, Native Americans

ADJUNCT AND AFFILIATED FACULTY

Patrick Chavez, Ph.D., USGS, Research Associate — remote sensing, GIS

Philip A. Davis, Jr., Ph.D., Kentucky; USGS Research Geologist; Adjunct Professor — remote sensing, GIS

Kathryn Thomas, Ph.D. California-Santa Barbara; USGS Biological Resources Division, Colorado Plateau Field Station; Adjunct Professor — plant and landscape ecology, biogeography, arid lands

Neil Gullickson, B.B.A., B.S. Northern Arizona, 1992; Associate Planner, City of Flagstaff; Instructor — physical planning, urban design, zoning, planning practice

Michael Kerski, M.Arch., Wisconsin-Milwaukee; AIA, CNU; Redevelopment Program Director, City of Flagstaff; Instructor — urban design, urban redevelopment, site planning, new urbanism

William Ring, J.D., Arizona; Instructor — land use law, zoning and planning, regulatory approvals

Kim William Watson, B.S., Ohio State; Supervisory Park Ranger, National Park Service; Instructor — Land and Environmental Planning, Long Range Planning, Resource Protection, Visitor Management and Education

A new kind of science program at Northern Arizona University offers students a way to thrive in the growing global economy.

NAU's first Professional Science Master's degree—the master's in applied geospatial sciences—provides students a direct path to industry, government or non-profit careers. "Professional Science Master's degrees prepare students for work in a variety of cutting-edge fields and yield a highly marketable degree and competitive salary after only two years of postgraduate study." Professional Science Master's degrees supply advanced training in sciences, technology and mathematics while developing practical workplace skills such as business fundamentals and project management. These interdisciplinary degrees also may include training in intellectual property law, technology transfer, regulatory affairs, information technology, product marketing, leadership, entrepreneurship and communication The Professional Science Master's degree is a professional rather than a research degree. A master's degree in many natural science fields traditionally is a steppingstone to a doctorate rather than an end in itself. But over the past 13 years, foundations and universities have worked together to develop new master's programs for students seeking professional skills for the 21st century global marketplace. The master's in applied geospatial sciences has become the first degree program at NAU to be approved for affiliation as a PSM program by the Council of Graduate Schools. See http://nau.edu/SBS/GPR/Degrees-Programs/MS-Applied-Geospatial-Sciences/for information on NAU's master's in applied geospatial sciences.

PIMA COMMUNITY COLLEGE

PHYSICAL & GEOLOGICAL SCIENCES DEPARTMENT

DEGREES OFFERED: A.A or A.S. for transfer to four-year colleges and universities

HEAD OF GEOGRAPHY: Michael Talbot

FOR FURTHER INFORMATION WRITE TO: Michael Talbot Pima Community College West Campus 2202 W. Anklam Rd. Tucson, AZ 85709 Telephone: (520) 206-6031
Email: mtalbot@pima.edu. Internet: www.pima.edu

COURSES OFFERED: Introduction to Physical Geography: Weather & Climate, Introduction to Physical Geography: Landforms & Oceans, Introduction to Cultural Geography, Introduction to Geographic Information Systems (GIS), Introduction to Medical Geography, Mapping Concepts, Computer Cartography and CAD, Independent Studies in Geography.

MATRICULATION AGREEMENT WITH FOUR-YEAR UNIVERSITIES: PCC Geography courses matriculate to all state colleges and universities.

FACULTY:
Michael Talbot: M.A .Geography, Western Michigan University 1994

ADJUNCT FACULTY:
John Reynolds A.M. Geophysics, Indiana University, 1978

UNIVERSITY OF ARIZONA

SCHOOL OF GEOGRAPHY AND DEVELOPMENT
DATE FOUNDED: 1961
GRADUATE PROGRAM FOUNDED: 1963
DEGREES OFFERED: B.A., B.S., M.A., M.S., M.S.GIST, MDP, Ph.D.
GRANTED 7/1/15-6/30/16: 77 B.A./B.S., 7 Masters, 8 Ph.D., 39 GIST, 7 MDP
STUDENTS IN RESIDENCE: 351 Undergraduate Majors, 11 MA, 50 MS, 25 MDP, 51 Ph.D.
DIRECTOR: Lynn Staeheli
ASSOCIATE DIRECTOR: Christopher Lukinbeal

FOR FURTHER INFORMATION: Visit the School's website at www.geography.arizona.edu. If you have further questions email the Undergraduate and Graduate Program Coordinator, Elizabeth S. Cordova, at elizabec@email.arizona.edu. Main contact information: School of Geography and Development, ENR2 Building, POB 210137, University of Arizona, Tucson, Arizona 85721.
Telephone (520) 621-1652. Fax (520) 621-2889.

PROGRAMS AND RESEARCH FACILITIES: Undergraduate: The School offers a B.A. and B.S. in Geography, a B.S. in Urban and Regional Development, a B.S. in Geographic Information Systems Technology, and a B.A. in Environmental Studies. Emphases in the B.A. and B.S.in Geography include physical and environmental, human, and techniques. For the B.S. in Urban and Regional Development, a business minor is strongly recommended. Internships, paid or unpaid, are arranged by the School with local governmental agencies or private sector employers. Graduate: Fields of specialization for the M.A. and Ph.D. degrees include: Critical Human Geography, Human-Environment Relations, Physical Geography, Regional Development, Water Resources and Policy, Climate and Paleoclimate and Methodology and Technology. The School also offers a one-year, professional M.S. in GIST and a Masters in Development Practice. The School participates, with other programs, in offering a Graduate Certificates in GI Science, Water Policy, and Connecting Environmental Science and Decision Making. The School supports a wide range of methodological approaches, including critical methods, GIS, qualitative methods, remote sensing, spatial econometrics, and web-based decision support systems. Strong alliances are maintained with other departments, interdisciplinary programs, and research centers stressing the social and environmental sciences. Many affiliated faculty are actively involved in teaching and graduate training, including serving as primary advisors. For complete information, go to: www.geography.arizona.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. GRE scores required for admission. Assistantships with competitive stipends and remission of tuition and health insurance are available to qualified applicants. Applications for admissions and assistantships should be complete by January 1.

FACULTY:
Kevin J. Anchukaitis, Ph.D., University of Arizona, 2007, Associate Professor — paleoclimatology, dendrochronology, spatiotemporal statistics, climatology, drought, human-environment interactions; Latin America, United States, Asia, Mediterranean

Keiron Bailey, Ph.D., Kentucky, 2002, Associate Professor — participatory geographic information science; geovisualization; east Asia/western Pacific, commercial aviation, structured public involvement

Jeffrey M. Banister, Ph.D., University of Arizona, 2010, Assistant Research Social Scientist and Assistant Research Professor, Southwest Center and School of Geography and Development — political and cultural geography, Latin America, environment, Mexico

Greg Barron-Gafford, PhD., 2010, Assistant Professor — biogeography, environment, leaf biochemistry, ecosystems, climate change, ecology, forest ecology

Carl J. Bauer, Ph.D., UC Berkeley, 1995, Associate Professor and Director of Graduate Studies — comparative and international water law, policy, and political economy; geography, law, and property; Latin America, Western USA, Spain

Kristina Monroe Bishop, Ph.D., University of Arizona, 2010, Director, Master's in Development Practice Program — Geography of Health; Geographies of Development; Political Ecology; South Africa

Stephanie Buechler, Ph.D., Binghamton University, 2001, Lecturer and Research Associate — sustainable urban development, gender and the environment, climate change and adaptation in urban and rural areas, water scarcity and community adaptation and international development, U.S., Mexico, Latin America, South Asia

Gary L. Christopherson, Ph.D., Arizona, 2000, Associate Professor of Practice and Director of the Center for Applied Spatial Analysis — geographic information systems, archaeology, wildfire, urbanization

Andrew C. Comrie, Ph.D., Pennsylvania State, 1992, Professor and Senior Vice President for Academic Affairs and Provost — climate variability, synoptic climatology, climate applications in air quality, health, and environment

Wayne Robert Decker, Ph.D., Johns Hopkins University 1979 — ICT, science-technology innovation and social entrepreneurship as development strategies; universities as catalysts for development in Africa

Vincent Del Casino Jr., PhD., University of Kentucky 2000, Professor and Vice Provost for Digital Learning and Student Engagement and Associate Vice President for Student Affairs and Enrollment Management — human geography, social and cultural geography, health, geographic thought and history, sexuality studies and health politics in Southeast Asia and Long Beach, CA.

Sapana Doshi, Ph.D., UC Berkeley 2011, Assistant Professor — critical development studies, urban geography, cities of the Global South, feminist geography, cultural politics, social movements, ethnography, Mumbai

John Paul Jones III, Ph.D., Ohio State, 1984, Professor and Dean — social and cultural theory, history of geographic thought, critical human geography, research methodology and techniques

Diana M. Liverman, Ph.D., UCLA, 1984, Regents Professor, Geography and Co-Director, UA Institute of the Environment — human dimensions of global environmental change, climate impacts, adaptation and policy, political ecology, Latin America

Christopher Lukinbeal, Ph.D., San Diego State/University of California, Santa Barbara, 2000, Assistant Professor and Director of MS in GIST — cultural geography, media and cinema, GIScience

Sallie A. Marston, Ph.D., Colorado, 1986, Professor — political, cultural, social theory and feminist geography

Beth A. Mitchneck, Ph.D., Columbia, 1990, Professor — migration, displacement, governance, Russia, Caucasus

Elizabeth A. Oglesby, Ph.D., University of California, Berkeley, 2000, Associate Professor and Chair of the Undergraduate Committee — critical development, political economy, ethnography, human rights and post-conflict issues, Latin America

Tracey Osborne, PhD., University of California, Berkeley, 2010, Assistant Professor — social dimensions of climate change mitigation, agrarian studies, political ecology, Mexico, Latin America and the Caribbean.

Iris Patten, PhD., University of Florida, Gainesville, 2014, Professor of Practice and Program Director, Online Masters of Science in Geographic Information Systems

David A. Plane, Ph.D., Pennsylvania, 1981, Professor — migration, population, transportation, and regional science

Dereka Rushbrook, Ph.D., Arizona, 2005, Associate Professor and Director of Undergraduate Studies — development, Latin America, social theory/social justice

Christopher Scott, Ph.D., Cornell, 1998, Professor — water management and policy, climate and water variability, urban water demand, water reuse, energy-water nexus, groundwater; Southwest U.S., Mexico, South Asia

Lynn A. Staeheli, PhD, University of Washington, 1989, Professor and Director — Community and political activism; citizenship; public space; memory and post-conflict societies; gender, youth, religion and race; Lebanon; South Africa; US; Europe

Daoqin Tong, Ph.D., Ohio State, 2007, Associate Professor — location modeling, spatial optimization, GIS, transportation and remote sensing

Willem van Leeuwen, Ph.D., Arizona, 1995, Associate Professor, Geography and School of Natural Resources and Environment — landscape ecology, dryland environments, biogeography, remote sensing, field methods

Margaret O. Wilder, Ph.D., Arizona, 2002, Associate Professor, Geography and Latin American Studies, and Environmental Policy — political ecology of water and environment in Mexico, climate-related vulnerability and adaptation in U.S.-Mexico border, development and Latin America

Connie Woodhouse, Ph.D., University of Arizona, 1996, Professor — paleoclimatology, dendrochronology, climate variability, water resources, western U.S.

Stephen R. Yool, Ph.D., UC-Santa Barbara, 1985, Professor — physical geography, remote sensing, computer cartography, GIS

EMERITI FACULTY:

D. Robert Altschul, Ph.D., Illinois
Wayne Robert Decker, Ph.D., Johns Hopkins University
Lay James Gibson, Ph.D., UCLA
Janice J. Monk, Ph.D., Illinois
Gordon Mulligan, Ph.D., British Columbia
Leland R. Pederson, Ph.D., UC, Berkeley
Richard W. Reeves, Ph.D., UCLA
Thomas F. Saarinen, PhD., Chicago
Marvin Waterstone, Ph.D., Rutgers

AFFILIATED FACULTY:

Brown, Heidi, PhD., Yale University, 2007, Assistant Professor, Epidemiology and Biostatistics Division — vector-borne disease, spatial epidemiology and climate change and health

Bonnie G. Colby, Ph D Wisconsin, 1983, Professor, Agriculture and Resource Economics — water, public lands, energy and environmental economics

Benedict Colombi, PhD., Washington State University, 2007, Professor — American Indian Studies

Crimmins, Michael, PhD., University of Arizona, 2004, Associate Professor — Climate Science Extension Specialist, Soil, Water and Environmental Science- climate science support, resource management, drought monitoring and drought preparedness

Gregg Garfin, Ph.D., Arizona, 1998, Director of Science Translation and Outreach, Institute of the Environment — climate change, adaptation, climate impacts, drought, outreach, US-Mexico

Katherine K. Hirschboeck, Ph.D., Arizona, 1985, Associate Professor, Laboratory of Tree-Ring Research — hydroclimatology, hydrology, synoptic climatology, climate variability, dendroclimatology

Vance T. Holliday, Ph.D., Colorado, 1982, Professor of Anthropology and Geosciences — geoarchaeology, Paleoindian archaeology, soil-geomorphology, Quaternary landscape evolution, Great Plains and the Southwest

Laura E. Huntoon, Ph.D., University of Pennsylvania, 1991, Associate Professor, Planning Degree Program — urban and regional planning

Charles F. Hutchinson, Ph.D., UC, Riverside, 1978, Professor, Arid Lands Studies — remote sensing, physical, arid lands

Kathy Jacobs, PhD. University of California, Berkeley, 1981, Professor and Director of Arizona Water Institute — climate adaptation, water management issues, water sustainability, water policy, connecting science and decision-making, stakeholder engagement and drought planning

Miranda Joseph, Ph.D., Stanford, 1995, Professor and Director of Graduate Studies, Gender and Women's Studies — Marxist theory, poststructuralist theory, queer theory, feminist theory, cultural studies

Stuart E. Marsh, Ph.D., Stanford, 1979, Professor, Geography and School of Natural Resources and the Environment, Chair Arid Lands Resource Sciences Interdisciplinary Ph.D. Program, Director, Arizona Remote Sensing Center — environmental remote sensing, land-use land cover change, computer applications

Sharon B. Megdal, Ph.D. Princeton, 1981, Professor, Dept. of Agriculture and Resource Economics and Department of Soil, Water and Environmental Science — water policy and management, public policy

Gary P. Nabhan, Ph.D., Arizona, 1983, Research Social Scientist, Southwest Center and School of Geography and Development — food geography, political ecology, sustainable agriculture and fisheries, biodiversity conservation, ethno botany, conservation sociology/reconciliation ecology, local food systems

Jon Pelletier, Ph.D., Cornell, 1997, Associate Professor, Geosciences — landscape processes, fluvial and aeolian geomorphology

Linda Samuels, PhD., UCLA, 2012, Project Director, Sustainable City Project — urban planning, infrastructure as public space, architecture

Edella Schlager, Ph.D,, Indiana University, 1990, Professor and Director of PhD Studies — comparative institutional analysis, common pool resource theory, water law/policy/politics in the western US

Paul R. Sheppard, Ph.D., Arizona, 1995, Associate Professor, Laboratory of Tree-Ring Research — dendrochemistry, environmental monitoring with tree rings, dendrogeomorphology, image analysis of tree rings

Thomas W. Swetnam, Ph.D., Arizona, 1987, Professor, School of Renewable Natural Resources and Ecology and Evolutionary Biology, Director of Laboratory of Tree Ring Research — disturbance ecology, paleoclimatology, biogeography

ARKANSAS

UNIVERSITY OF CENTRAL ARKANSAS

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1928
DEGREES OFFERED: BA or BS in Geography, BA or BS in Geography-Geospatial, BS in Environmental Science: Planning & Administration, Graduate Certificate in GIS, MS in GIS, MS in Community & Economic Development
GRANTED 9/1/14-8/31/15: 2 BA Geography, 5 BS Geography, 3 Certificate GIS, 2 MSGIS, 6 MSCED
MAJORS: 28 Undergraduate Geography & Geospatial, 19 Undergraduate E.S. Planning & Administration, 4 Graduate GIS Certificate, 25 Graduate MGIS, 16 Graduate MSCED
CHAIR: Jeff Allender
PROGRAM ADMINISTRATIVE ASSISTANT: Suzanne Rogers

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, University of Central Arkansas, 318 Burdick Hall, 201 Donaghey Avenue, Conway, AR 72035. Telephone: (501) 450-3164. Fax: (501) 852-2926. Email: jeffa@uca.edu. Web: http://uca.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES
At the University of Central Arkansas, our undergraduate programs provide the breadth and depth of knowledge needed to understand contemporary natural and human problems, as well as the geospatial skills needed to work in geographic and other professions. Faculty members provide exceptional training in cartography, remote sensing, and geographic information systems (GIS). Our two graduate programs focus on the theoretical and practical use of geospatial technology. The GIS Graduate Certificate provides working professionals and graduate students the opportunity to receive sophisticated technical training that will enhance their employment skills or broaden their career options. The Master of GIS degree is a more comprehensive and intensive program that takes students beyond that offered in the Certificate program.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The degree of Bachelor of Arts or Bachelor of Science, with a major in Geography or Geography with a Geospatial concentration requires successful completion of 120 hours including the UCA core, 37 hours of geography courses, and a minor as worked out with the student's advisor. The major in Environmental Science: Planning and Administration also requires successful completion of 120 hours including the UCA core, the Environmental Science core, and the Planning and Administration core and may contain between 23 and 40 hours of geography courses, depending upon electives taken. No minor is required for this major.

The online Master of Science in GIS (MGIS) program offers both a Masters and a Graduate Certificate. The Certificate requires the successful completion of 15 credits, and a Master of Science in GIS with either a thesis or non-thesis option requires the successful completion of 30 credits which include a thesis or GIS Graduate Project.

The online Master of Science in Community and Economic Development (MSCED) requires the successful completion of 36 credits. It is designed for practitioners and professionals in the fields of community development and economic development, and combines practical applications and theories.

FACULTY
Jeffery D. Allender, Ph.D., University of Wisconsin-Milwaukee, 1992, Assistant Professor and chair — international tourism development, urban and regional planning, regional specialty: China and East Asia, vernacular architecture, pedagogy of geography
Matthew H. Connolly, Ph.D., Texas State University, 2013, Assistant Professor — environmental geography, water resources, human-environment interaction, GIS, remote sensing, spatial analysis
William T. Flatley, Ph.D., Texas A&M University, 2012, Assistant Professor — forest dynamics, fire ecology, climate change, ecological restoration, ecological modeling
Ellen E. Hostetter, Ph.D., University of Kentucky, 2007, Assistant Professor — American cultural landscapes, legal geographies, and historical geography with a focus on automobile landscapes
Stephen M. O'Connell, Ph.D., Oklahoma State University, 2010, Assistant Professor — cultural landscapes, recreation and tourism, historical geography, regional specialty: North America, geospatial technology in education
Mary Sue Passe-Smith, M.A. University of Arkansas, 2004, Senior Lecturer — modeling topographic influences on tornadogenesis, hazard vulnerability mapping, hazard response and policy, natural hazards in general, GIS
Brooks C. Pearson, Ph.D., Indiana University, 1999, Assistant Professor — geospatial technology and accuracy of historical maps, historical cartography, geospatial techniques, regional specialty: Arkansas
Michael S. Yoder, Ph.D., Louisiana State University, 1994, Associate Professor — economic, urban, Arkansas, Mexico, regional specialty: Latin America

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, CHICO

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1964
GRADUATE PROGRAM FOUNDED: 1970
DEGREES OFFERED: B.A. in Geography with options in Human Geography and Planning, and Physical and Environmental Geography; M.A. Environmental Policy and Planning
CERTIFICATES OFFERED: Certificate in Geospatial Technology; Certificate in Land Use & Environmental Planning
MINORS OFFERED: Environmental Studies; Geography; Geospatial Literacy; Planning and Development
DUAL DEGREES OFFERED: Geography and Economics; Geography and History
GRANTED 9/1/15 - 8/31/16: 25 Bachelors, 2 Masters
STUDENTS IN RESIDENCE: 75 Majors, 8 Masters
CHAIR: Dean H.K. Fairbanks
ADMINISTRATIVE ASST: Jessie Mendoza
LAB TECHNICIAN: Cathie Benjamin

FOR FURTHER INFORMATION CONTACT: Department of Geography and Planning, California State University, Chico,

California 95929-0425 or telephone (530) 898-5285 or refer to http://www.csuchico.edu/geop/. For information on graduate studies, please contact the graduate advisor, Dr. Don Hankins, at dhankins@csuchico.edu.

PROGRAMS AND RESEARCH FACILITIES: The 45-unit B.A. Program provides breadth in a 21-unit core, including emphasis on writing, research, and map measurement and GIS skills. The other 24 units are chosen from two options: Human Geography and Planning; and Physical and Environmental Geography. The department also offers two 21-unit certificates in Geospatial Technology and Resource Management & Land Use Planning. Geography and Planning also houses a minor in Environmental Studies and Geospatial Literacy. Geography and Planning in collaboration with two other academic departments house two formal double majors: Geography and Economics; and Geography and History.

The 30-unit Master of Arts in Environmental Policy and Planning is intended to broaden the training of, and to prepare, qualified students for: (1) employment in public service and the private sector where an advanced degree is desirable, (2) community college teaching in geography and social science, and (3) advanced academic work preparatory to the doctorate at other institutions. In particular, it stresses practical field experience and training in land use, environmental planning and development in urban and rural areas. Field studies in the region and internships with local government and private agencies are important elements of the program. The mountain and valley counties and towns of the University's Northern California service region are an excellent laboratory for both the Master of Arts and the undergraduate options in planning.

The department offers comprehensive facilities and equipment for undergraduate and graduate study. These include an extensive collection of maps, imagery, and technical field equipment; a physical geography laboratory; a multi-purpose 30 seat GIS, cartography, remote sensing and statistical analysis computer laboratory; a multi-media outfitted group project geography lounge; multi-media graduate seminar room; access to University ecological preserves; and an outdoor classroom for restoration ecology in the Butte Creek preserve.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University academic calendar consists of fall and spring semesters and summer session. Applicants wishing to pursue a master's degree must have an acceptable baccalaureate degree with an undergraduate grade point average of at least 3.0 in the last sixty semester units and a grade point average of at least 3.0 in all post-baccalaureate graduate level coursework taken. Also required for admission are two letters of recommendation, writing samples, and Statement of Purpose.

A range of seven scholarships are available to undergraduate and graduate students based on gpa, merit and need. Student interns are often hired for CSU Chico Research Foundation contract projects at the Geographical Information Center and Center for Economic Development on a competitive basis. Internships are also available from surrounding cities, county, state, and federal agencies, and in private business as well as non-profit organizations. Teaching assistantships are available for Graduate students on a competitive basis. Equal opportunity Affirmative Action students are particularly encouraged to apply.

FACULTY:

Scott Brady, Ph.D., Louisiana State University, 1996, Professor — cultural geography, geographic education, Mexico & Central America,

Jacquelyn R. Chase, Ph.D., UCLA, 1993, Professor — rural planning & development, gender, urban-rural relations, economic geography, Latin America, Brazil

Dean H.K. Fairbanks, Ph.D., University of Pretoria, South Africa, 2001, Professor — landscape ecology, GIS, human-environmental relations, environmental planning, spatial econometrics, remote sensing

Don L. Hankins, Ph.D., UC Davis, 2005, Professor — fire ecology and management, water resources, restoration ecology, indigenous peoples geography

LaDona G. Knigge, Ph.D., SUNY-Buffalo, 2006, Associate Professor — urban geography, community planning, qualitative research, critical GIS

Paul Z. Melcon, Ph.D., University of Wisconsin-Madison, 1979, Associate Professor — physical geography, hazards, geomorphology, remote sensing

Eugenie Rovai, Ph.D., Clark University, 1991, Professor — hazards, water resources, cartography

Noriyuki Sato, Ph.D., Indiana University, 2007, Associate Professor — climatology, climate change, transportation, quantitative methods, remote sensing

Mark Stemen, Ph.D., University of Iowa, 1999, Associate Professor — environmental studies, sustainability issues, environmental education, historical geography of the US

Xining Yang, Ph.D., Ohio State University, 2015, Assistant Professor — GIS, geovisualization, big data analytics, web-GIS, geography of food and health

ADJUNCT:

Owen Bettis, M.A., CSU, Chico, 2012 — physical geography

James Claflin, M.A., University of Texas, 1986 — California geography, cultural geography

Steven Herman, M.A., University of North Carolina, 1982 — geographic education, California geography, American West

Robert Pierce, M.A., CSU, Chico, 2003 — physical geography

Jeremy Miller, M.S., Antioch Univ., 1999 — sustainability issues, physical geography

Ryan Miller, M.A., Univ. of Washington, 2014 — Urban Planning, GIS

S*teven Stewart, M.A., CSU, Chico, 1996* — GIS, cartography, geographic education

Claudia Stuart, M.L.A., UC Berkeley, 1992 — rural land use planning, environmental impact, CEQA/NEPA

EMERITI:

Richard L. Haiman, Ph.D., UCLA, 1973, Professor
Donald G. Holtgrieve, Ph.D., Oregon, 1973, Professor
Ladd Johnson, Ph.D., UCLA, 1964, Professor
Guy Q. King, Ph.D., University of Utah, 1982, Professor
Ralph Meuter, Ph.D., University of Oklahoma, Professor
Louis Mihalyi, Ph.D., UCLA, 1964, Professor
Edward L. Myles, Ph.D., Michigan State, 1973, Professor
Susan Place, Ph.D., UCLA, 1991, Professor
Frank Seawall, Ph.D., Pennsylvania State University, Professor
Jerry R. Williams, Ph.D., Florida, 1969, Professor

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

DEPARTMENT OF GEOSCIENCES AND ENVIRONMENT
DATE FOUNDED: 1951
DEGREES OFFERED: B.A. Geography; M.A. Geography; B.S. Geology with Option in Environmental Geology; M.S. in Geological Sciences with options in Geology or Hydrology; M.S. in Environmental Science with Options in Environmental Hydrology, Geographic Information Systems, Environmental Biology, or Environmental Engineering Science; GIS Certificate
DEGREES GRANTED 9/1/14 – 8/31/15: 6 M.A. in Geography; 7 M.S. in Geology; 22 in B.A. /B.S.
MAJORS: 138 in residence
CHAIR: Dr. Hengchun Ye
PROGRAM ADMINISTRATIVE ASSISTANT: Ms. Maria Murillo; Ms. Katrina Makkouk

FOR CATALOG AND FURTHER INFORMATION WRITE TO: CSULA Department of Geosciences and Environment, 5151 State University Drive, Los Angeles CA 90032.
Telephone: (323) 343-2400. Email: hye2@calstatela.edu
Internet: http://www.calstatela.edu/academic/geos

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences and Environment offers both undergraduate, graduate, and post-baccalaureate students the opportunity to study a wide range of topics and conduct student research alongside the faculty in their primary fields of study including: climatology, hydrogeology, volcanology, engineering and structural geology, stratigraphy, and geospatial analysis. The students in our programs have access to state-of-the art research facilities which include: wet laboratories, chemistry laboratories, a sedimentological flume laboratory, a soils analysis laboratory, and computer laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Admission to the undergraduate program is the same as required by the Admissions Office at CSULA. The Department offers rigorous academic and much needed technical training in urban and environmental issues. Our students will have both the technical and planning know-how to tackle a number of sustainability issues in Los Angeles and beyond. In addition to the university's general elective requirements, undergraduate students in our majors are expected to complete a well-rounded curriculum of classes. The total number of units for the Bachelor of Science degree in Geology is 120 units. The Bachelor of Science degree program is designed to provide in-depth study of Earth materials, structures, and processes for professional work in fields such as engineering geology, hydrogeology, and petroleum geology, or graduate study. The Geology option requires 26 units of foundational courses. The Environmental Geosciences Option requires 25 - 28 units of foundational courses. The Bachelor of Arts degree in Geography is designed to provide students with an understanding of the world's physical and cultural environments. The program provides a foundation in the theory and practice of contemporary geography, with emphases on a variety of applied and technical skills that will enhance a student's career opportunities. The total number of units required for the Bachelor of Arts degree in Geography is 120 units, of which 43-44 units are in the major. Students who wish to pursue graduate level degrees must follow the Admissions Office application procedures and the individual department requirements as well. The department requires: official transcripts showing all prior academic work from every college or university attended, a departmental application, and three letters of recommendation sent to the Department of Geological Sciences.

Financial assistance may be given in the form of scholarships or grants. The student must apply to the FAFSA application and the annual CSULA Scholarship application in order to be considered for additional financial aid. Some graduate students may qualify to participate in teaching appointments or graduate assistant work in order to earn a stipend.

FACULTY:
Kris Bezdecny, Ph.D., University of South Florida, 2004, Assistant Professor — urban, GIS, and transportation
Kim Bishop, Ph.D., University of Southern California, Professor — field and engineering geology, structural geology
Andre Ellis, Ph.D., University of Illinois, 2003, Associate Professor — hydrogeology, environmental geochemistry
Jennifer Garrison, Ph.D., UCLA, 2004, Associate Professor — igneous petrology, volcanology
Barry Hibbs, Ph.D., University of Texas, 1993, Professor — hydrogeology, contaminant waste hydrogeology, and groundwater modeling
Steve LaDochy, Ph.D., University of Manitoba, 1985, Professor — climatology, environmental studies, computer mapping, air pollution
Jingjing Li, Ph.D., University of California-Irvine, 2012, Assistant Professor — hydrologic modeling, remote sensing, GIS
Stephen Mulherin, Ph.D., Ohio State University, 1999, Professor — urban, historical, GIS
Hong-lie Qiu, Ph.D., Louisiana State University, 1994, Professor — remote sensing, GIS, computer cartography, biogeography
Pedro Ramirez, Ph.D., University of California-Santa Cruz, Professor — sedimentary petrology and stratigraphy
Hengchun Ye, Ph.D., University of Delaware, 1995, Professor — climatology, meteorology, remote sensing, global environmental changes

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1960
GRADUATE PROGRAM FOUNDED: 1960
DEGREES OFFERED: B.A., M.A.
GRANTED 2014-2015: 31 Bachelors, 13 Masters
STUDENTS IN RESIDENCE: 98 Majors, 72 Masters
CHAIR: Edward Jackiewicz
DEPARTMENT ADMINISTRATIVE COORDINATOR: Judith Gomez

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Edward Jackiewicz, Chair, California State University, Northridge, Northridge, California 91330-8249.
Telephone (818) 677-3532. Fax (818) 677-2723.
E-mail: geography@csun.edu.
Internet: www.csun.edu/social-behavioral-sciences/geography

PROGRAMS AND RESEARCH FACILITIES: The geography degree program allows for flexibility in course selection while providing a solid background in human, environmental, and physical aspects of the discipline including a newly created water resources curriculum. The major features a strong technical component based on applications of geographic information systems (GIS), cartography and remote sensing, along with training in geographical analysis and data presentation. The department offers a certificate in GIS. The MA

is offered with two options: standard program or GIS specialization. Department research facilities include GIS cartographic laboratories, fourteen weather stations throughout California, environmental and physical monitoring equipment available for student research, Sanborn map library (depository for maps of cities west of the Mississippi River-145,000 plates), and a research map library (400,000 flat maps, 5,000 air photographs).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Admission to graduate program with a cumulative undergraduate GPA of at least 3.0, or an acceptable GRE score and a GPA of at least 2.75 in the last 60 units attempted.

FACULTY:

Sanchayeeta Adhikari, PhD., Univ. of Florida, 2011 Assistant Professor – Human-environment geography, remote sensing & GIS, protected areas, South Asia

Soheil Boroushaki, Ph.D., UWO, 2010 Assistant Professor — GIS Multi-criteria decision analysis, location theory and analysis, spatial decision support systems

Helen M. Cox, Ph.D., UCLA, 1998, Professor — meteorology, climatology, remote sensing

James W. Craine, Ph.D., SDSU, 2006, Associate Professor — media geography, cultural geography, geo-visualization

Shawna J. Dark, Ph.D., UCLA, 2003, Professor — GIS, applied biogeography, environmental

Ronald A. Davidson, Ph.D., UCLA, 2003, Associate Professor — public space, teacher education, narrative and geography, regional geography

Mario Giraldo, Ph.D. Georgia 2007, Assistant Professor — Sustainability, biogeography, GIS, remote sensing applications, mountain agriculture, water resources

Luke P. Drake, Ph.D., Rutgers University, 2015, Assistant Professor — Urban/economic, political ecology, GIS, qualitative methods

Steven M. Graves, Ph.D., Illinois, 1999, Professor — pop culture, social, urban/economic, geography education

Edward L. Jackiewicz, Ph.D., Indiana, 1998 Professor — third world development, Latin America and the Caribbean, urban

Julie E. Laity, Ph.D., UCLA, 1982, Professor — climatology, geomorphology

Regan M. Maas Ph.D., UCLA, 2010, Assistant Professor — Health/Medical Geography, Spatial Demography, Urban Geography, GIS

Amalie Jo Orme, Ph.D., UCLA, 1983, Professor — coastal and fluvial geomorphology, Quaternary studies

Yifei Sun, Ph.D., SUNY at Buffalo, 2000, Professor — GIS, urban/economic, spatial statistics, China

EMERITI FACULTY:

James P. Allen, Ph.D., Syracuse, 1970, Professor — cultural, social population, Anglo-America

Warren R. Bland, Ph.D., Indiana, 1970, Professor — economic, transportation, manufacturing, Canada

William A. Bowen, Ph.D., Berkeley, 1972, Professor — historical, physical, California, computer cartography

Robert Gohstand, Ph.D., UC, Berkeley, 1973, Professor — Soviet Union, cartography

David Hornbeck, Jr., Ph.D., Nebraska, 1974, Professor — historical, Southwest U.S., California, economic, applied geography

Robert B. Howard, Ph.D., UCLA, 1974, Professor — geomorphology

Antonia Hussey, Ph.D., Hawaii, 1986, Professor — Southeast Asia, economic development, China, tourism

Phillip S. Kane, Ph.D., UC, Berkeley, 1975, Professor — geomorphology

Gong-Yuh Lin, Ph.D., Hawaii, 1974, Professor — meteorology, climatology

C. Gary Lobb, Ph.D., UC, Berkeley, 1970, Professor — cultural, tropical ecology, Latin America

Elliot G. McIntire, Ph.D., Oregon, 1968, Professor — cultural, conservation, biogeography

Eugene J. Turner, Ph.D., Washington, 1977, Professor — cartography, computer applications, GIS

Ralph D. Vicero, Ph.D., Wisconsin, 1968, Professor — historical Anglo-America

I-Show Wang, Ph.D., Minnesota, 1971, Professor — population, East Asia

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY
DATE FOUNDED: 1973
DEGREES OFFERED: B.S.
GRANTED 9/1/13-8/31/14: 20 Bachelors
MAJORS: 50
CHAIR: Michael Reibel
GEOGRAPHY PROGRAM COORDINATOR: Kristen Conway-Gomez
DEPARTMENT ADMINISTRATIVE ASST: Remi Burton

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography and Anthropology, California State Polytechnic University, 3801 W. Temple Ave., Pomona, California 91768. Telephone (909) 869-3569. Fax (909) 869-3586.
E-mail: mreibel@cpp.edu
WEB: http://www.cpp.edu/~class/geography-anthropology/

PROGRAMS AND RESEARCH FACILITIES: Geography is in the Department of Geography and Anthropology at Cal Poly Pomona. There are three undergraduate major option programs in geography in the department: Geographic Information Systems, Environmental Geography, and Geography. The core of the B.S. program emphasizes the cutting edge of technical and applied perspectives of the discipline balanced by a wide range of physical, human, and regional geography courses. The program is supported by department, college, and University level computer labs with various platforms and state of the art hardware and software. Faculty and students are increasingly involved in GIS and applied research, and contribute extensively to the College and University's effort to become a GIS literate campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The quarter system is used. Cal Poly Pomona offers a variety of financial aid programs through the Financial Aid office. The department also offers Scholarships for geography and other majors in the department. For further information, contact the department office.

FACULTY:

Kristen Conway-Gomez, Ph.D., University of Florida, 2004, Associate Professor — Latin America, biogeography, human geography, geographic information systems, natural resource conservation

Kyung In Huh, Ph.D., Ohio State University, 2014, Assistant Professor – Tropical mountain glaciology / geography, global climate change, water resources in Latin America, airborne and spaceborne remote sensing, GIScience and GPS mapping.

Michael Reibel. Ph.D., UCLA, 1997, Professor — urban, economic, ethnic geography, demography, business and demographic applications in GIS

Lin Wu. Ph.D., UCLA, 1995, Professor — climatology, geographic information systems, environmental modeling, cartography, physical geography, California, Asia

Terence G. Young, Ph.D., UCLA, 1991, Professor — environmental, historical, designed landscapes, recreation, travel, North America

AD.JUNCT FACULTY:

Richard S. Hyslop, J.D., Ph.D., UC Riverside, 1990, Professor emeritus/lecturer — legal, hazards, and emergency management, environmental law, California, US, Canada

Nurudeen Alao, Ph.D., Northwestern University, 1970 — cultural, physical, California

Jennifer Bjerke, MA, Rutgers, 2012 — physical, cultural

Richard R. Burkey, Ph.D., UC-Riverside, 1996 — physical, cultural, California

Matthew V. Ebiner, MA., UCLA, 1986 — cultural, physical, California, Latin America, Asia, Africa, Europe

Conrad Nicoll, MA. Cal State Fullerton, 2003 — cultural, physical, California

Jeanne Marshall, MA., Cal State Fullerton, 1998 — cultural, California

Stephen H Sandlin, PhD., UC-Riverside, 1997 — cultural, physical, world regional, California

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1954
DEGREE OFFERED: B.A.
GRANTED 8/26/15-5/27/16: 32 Bachelors
MAJORS: 100
CHAIR: Michael Schmandt
DEPARTMENT ADMINISTRATIVE SUPPORT COORDINATOR: Lori Phillips

FOR CATALOG AND FURTHER INFORMATION, WRITE TO: Department of Geography, California State University, Sacramento, 6000 J Street, Sacramento, California 95819-6003. Telephone (916) 278-6109, Fax (916) 278-7584.
E-mail: schmandt@csus.edu. Internet: http://www.csus.edu/geog/

PROGRAMS AND RESEARCH FACILITIES: The department offers the major with concentrations in physical geography, human geography, GIS and analysis, and metropolitan area planning. Through lab and field courses, students become well acquainted with each other and with the faculty. Internships, principally with public agencies, provide an excellent opportunity for interested majors to expand their training to the work place. Location in Sacramento provides field courses access to a great range of resources in physical, urban, and rural geography. Students have opportunities to work closely with faculty on field-, lab-, and archival-based research, including senior capstone projects. Facilities include computer labs to support GIS, cartography, and remote sensing, and a paleoecology lab. The University Library houses an extensive collection of books, atlases, maps, and journals in support of geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission to the program is made to the Admissions Office of the University. Departmental and university-wide scholarships, grants, and student aid are available.

FACULTY:

Robin E. Datel, Ph.D., Minnesota, 1983, Professor — geography of the Sacramento region, historic preservation, urban historical geography, urban social geography

Marsha J. Dillon, Ph.D., UC, Berkeley, 1976, Professor — natural resources, population change, economic structure, political cohesion

Bruce Gervais, Ph.D., UCLA, 2001, Professor — biogeography, climatology, paleoecology, sustainability

Thomas S. Krabacher, Ph.D., UC, Davis, 1990, Professor — cultural ecology, economic development, landscapes, environmental history

Miles R. Roberts, Ph.D., University of South Carolina, 1990, Professor — geomorphology, biogeography, ecology, spatial statistics

Michael Schmandt, Ph.D., Arizona State University, 1995, Professor — urban planning, geographic techniques, food, applied geography, transportation patterns, California (Central Valley), field geography

Mathew C. Schmidtlein, Ph.D., University of South Carolina, 2008, Associate Professor — environmental hazards and vulnerability, GIScience, human geography, public health

James Wanket, Ph.D., UC, Berkeley, 2002, Professor — quaternary studies, climate, biogeography, geomorphology, California

EMERITUS FACULTY:

Michael D. Fitzwater, Ph.D., UC, Davis, 1981, Professor — physical, meteorology, plant ecology, soil science, air pollution meteorology/climatology

Robert M. Phillips, Jr., Ph.D., UCLA, 1974, Professor — physical, suburban/rural field study, food and hunger, agriculture, Africa, Southeast Asia, human impact on global ecosystems

Tim S. Hallinan, M.A., UC, Berkeley, 1969, Professor — cultural, Latin America, urban/urban field study, landscape, population, geography of religions

Robert T. Richardson, Ph.D., Oregon, 1973, Professor — physical, climate, geomorphology, map and air photo interpretation, cartography, remote sensing, GIS

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

DEPARTMENT OF GEOGRAPHY and ENVIRONMENTAL STUDIES
DATE FOUNDED: 1971
DEGREE OFFERED: Geography: B.A. Geography, B.A. Global Studies; Environmental Studies: B.A.
GRANTED: 9/1/14-6/20/15: Geography: 14 Bachelors, Global Studies: 1 Bachelor; Environmental Studies: 19 Bachelors
MAJORS: Geography: 25; Environmental Studies: 81
CHAIR: Norman Meek
DEPARTMENT ADMINISTRATIVE SUPPORT COORDINATOR: Patricia Massei

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Professor Norman Meek, Department of Geography and Environmental Studies, California State University, San Bernardino, 5500 University Parkway, San Bernardino, California 92407-2397. Telephone (909) 537-5519. Fax (909) 537-7645.
E-mail: pmassei@csusb.edu or nmeek@csusb.edu
Internet: www.geog.csusb.edu.

PROGRAMS AND RESEARCH FACILITIES: The department offers geography majors a broad undergraduate background that integrates physical and human topics while providing choice flexibility within these categories. The geography major has two options; general geography and global studies. For global studies, a

major would learn about the characteristics and consequences of globalization from an international perspective. The department also administers an interdisciplinary Environmental Studies major program and certificate program in Geographic Information Systems. Internships with local public and private agencies are encouraged, as are independent studies. Graduates typically find employment within southern California in public and private planning firms, California Department of Transportation, U.S. Forest Service, as well as attending graduate school. All faculty members maintain active research programs that include development of geographic information systems, planning issues such as water resources or affordable housing, and other spatial research.

The Geography Department maintains Cartography, GIS, and Spatial Analysis Lab with 25 computers with 21" displays, two servers, color laser printers, an XGA projection system, and the entire suite of ESRI products. The 100 MbLAN has a 1 Gb backbone connection to the core and an OC-3 connection to the Internet. We also have 30 handheld GPS receivers, an RTK-grade GPS receiver, a laser rangefinder with internal compass and clinometer, and 10 ruggedized field computer with PenMap software. The lab is funded by a variety of grants and cooperative agreements, including some from the National Science Foundation, the Federal Geographic Data Committee, the EPA, and the USDA. The lab serves as a data repository for the CSUSB Water Resources Institute and the San Bernardino Regional Data Clearinghouse.

FACULTY:

Andrew Bodman, Ph.D., The Ohio State University, 1978, former Provost and Vice President for Academic Affairs — economic geography

Brett Goforth, Ph.D., UC, Riverside, 2009, Assistant Professor — biogeography, weather & climate, map interpretation

Kevin Grisham, Ph.D., UC, Riverside, 2009, Assistant Professor — Model United Nations and Model Arab League programs; geo-politics

Rajrani Kalra, Ph.D., Kent State University, 2007, Associate Professor — urban information systems, urban and economic geography, geospatial techniques, South Asia, globalization and developing countries

Michal Kohout, Ph.D., Clark University, Associate Professor — United States-Mexico borderlands, labor standards, Europe

Norman Meek, Ph.D., UCLA, 1990, Professor — geomorphology, military geography, Quaternary studies, climate change

Bo Xu, Ph.D., University of Georgia at Athens, 2008, Associate Professor — GIS, remote sensing

EMERITI FACULTY:

Jeffrey D. Hackel, Ph.D., UC, Riverside, 1988, Professor Emeritus — conservation and resources, Africa, biogeography, geographic research methods

Theodore R. McDowell, Ph.D., Oregon State, 1980, Professor Emeritus — water resources, climate, conservation, remote sensing, natural hazards

James L. Mulvihill, Ph.D., Michigan State, 1976, Professor Emeritus — urban planning, urban, economic, Latin America

Richard H. Rowland, Ph.D. Columbia, 1971, Professor Emeritus — former and post-Soviet Union, population, California

CALIFORNIA STATE UNIVERSITY, STANISLAUS

DEPARTMENT OF ANTHROPOLOGY, GEOGRAPHY, & ETHNIC STUDIES
DEGREES OFFERED: B.A. in Geography
MAJORS: 20 Geography
MINORS: 12 Geography
DEGREES GRANTED: 7 B.A.
DEPARTMENT CHAIR: Sari Miller-Antonio
PROGRAM DIRECTOR: Peggy Hauselt
ADMINISTRATIVE COOR: Susan Helm-Lauber

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Department of Geography, California State University, Stanislaus, One University Circle, Turlock, California 95382.
Telephone (209) 667-3127. E-mail: PHauselt@csustan.edu.
Internet: www.csustan.edu/geography/

PROGRAMS AND FACILITIES: The program offers students a broad education in Geography and the opportunity to work in some exciting projects and laboratories including the GIS Lab and the Bio-Ag Center (an outdoor lab for environmental planning, sustainable techniques and permaculture). We provide a unique opportunity to study abroad, as well as service learning opportunities and internships that engage students with local communities. We also direct the Master of Science in Interdisciplinary Studies – Geospatial Concentration. The Department strongly supports and encourages field and international educational experiences.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: The department offers a major and minor in Geography. Geography majors select a concentration in the major from the following options: 1) Cultural/Social Geography, 2) Physical Geography/Environmental Studies, 3) Geospatial Technology, 4) Globalization & Development and 5) California Studies. The department also offers concentrations for Liberal Studies and Social Science majors and a minor in Environmental and Resource Studies. A major goal of the department is to provide students with meaningful knowledge of the world's cultures and its physical settings as well as to understand the interactions that result. Majors are expected to take various human, physical, regional, methodology, field and technique courses to fulfill the requirements for the major.

FACULTY:

Augustine Avwunudiogba, Ph.D., Univ of Texas, Austin, 2011, Associate Professor — Geomorphology, GIS, Remote Sensing, Mexico, West Africa

José R. Díaz Garayúa, Ph.D., Kent State Univ, 2008, Assistant Professor — Social, Cultural, Community GIS, Urban-Economic, Race, Ethnicity, Place

Peggy Hauselt, Ph.D., UC Davis, 2007, Associate Professor — Environmental, Agricultural, Biogeography, GIS

Jennifer Helzer, Ph.D., Univ of Texas, Austin, 1998, Professor — Cultural, Historical, Urban, North America, Europe, California

Alison McNally, Ph.D., UC Davis, 2014, Assistant Professor — Environmental, Agricultural, Biogeography, GIS

ADJUNCT FACULTY:

Richard Eigenheer, Ph.D., UC Davis, 1976 — Historical, Cultural, US/Canada, California

Chuck Bowen, M.A., Univ of Georgia, 1967 — Weather & Climatology, Environmental Science, Latin America

EMERITI FACULTY:
Melvin H. Aamodt, Ph.D. Indiana University, 1968
Ida Bowers, Ph.D. University of Hawaii, 1973
Eric Karlstrom, Ph.D., University *Calgary, 1981,*
Leon S. Pitman, Ph.D. Louisiana State University, 1973

COSUMNES RIVER COLLEGE

DEPARTMENT OF SCIENCE, MATH & ENGINEERING
DATE FOUNDED: 1970
DEGREES OFFERED: A.S. in Geography, A.S. in Environmental Studies & Sustainability, GIS Certificate
MAJORS: approx. 15
HEAD: Debra A. Sharkey
DEPARTMENT ADMINISTRATIVE ASST: Cindy Petty

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Cosumnes River College, Department of Geography, 8401 Center Parkway, Sacramento, CA 95823-5799, (916-691-7210), www.crc.losrios.edu.

PROGRAMS: Cosumnes River College offers 13 lower division courses in Geography including field study courses to Yosemite National Park, the Eastern Sierra and the California coast. In addition, the program offers two transferable A.S. degrees (Geography and Environmental Studies) and a professional GIS certificate.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Any person 18 years or older can apply to Cosumnes River College for admission. Financial aid is available.

FACULTY:
Scott Crosier, M.A., UC Santa Barbara, Professor — Geographic Information Systems (GIS), Physical Geography, Geography of California, Field Studies
Richard Davis, M.A., San Francisco State University, Adjunct Professor — Physical Geography, World Regional Geography
John Rusmore, Ph.D., UC Davis, Adjunct Professor — Physical Geography
Debra Sharkey, M.A., UC Davis, Professor — Cultural Geography, Physical Geography, Environmental Studies, Field Studies, Weather and Climate, World Regional Geography

ESRI

DATE FOUNDED: 1969
PRESIDENT: Jack Dangermond

FOR FURTHER INFORMATION ABOUT CAREER OPPORTUNITIES AND APPLICATION PROCEDURES, CONTACT: Human Resources, Esri, 380 New York Street, Redlands, California 92373-8100; telephone: 909-793-2853; e-mail: jobs@esri.com; World Wide Web: www.esri.com/careers

Esri is the world's leading provider of geographic information systems (GIS) software. Jack and Laura Dangermond founded the company in 1969 as an urban and landscape design consultancy. Their small team applied early computer mapping and analysis methods pioneered at Harvard's Laboratory for Computer Graphics, where Jack was a graduate student. Over time, Esri evolved into a software and services company, building upon the geographic information science and technologies developed in academia and industry since the 1970s. It now employs more than 3,000 people in the U.S., and many more at over 80 international distributors. Today some 350,000 public, private and non-profit organizations around the world rely on Esri technology. Over a million GIS professionals use Esri's GIS platform - ArcGIS - to create information products used by countless more knowledge workers, decision makers, and citizen stakeholders.

The U.S. Department of Labor and various economic impact studies indicate that the GIS workforce is large and growing. Specialized education in geography is one route into this workforce. Graduates with specializations in human geography might work in teams that investigate the spatial dimensions of health, or the provision of public services, transportation planning, or commercial applications like logistics, retail site selection, or demographic analysis for marketing. Others use GIS for humanitarian work. Physical geographers may be involved in floodplain modeling, conservation biology, forestry, or energy resources discovery, processing and transmission. Others may help advance the state of the art in geographic information science and technology at startups, research organizations, or even Esri.

GIS technologies and methods continue to evolve. Learning is a way of life for GIS users. Esri is committed to supporting lifelong learners. Its support extends from teachers, pupils and "GeoMentor" volunteers in schools, to students, educators and researchers in higher education, to recent graduates who aspire to careers in GIS, to GIS professionals who seek to advance their careers, career changers looking for a better future, and even to retirees who seek to give back to their communities. Esri's offerings for lifelong learners include:

- Software donations and curriculum solutions for primary and secondary schools
- Coordination and training for GeoMentors
- Low cost access to ArcGIS for colleges and universities
- No-cost access for students and recent graduates
- Curriculum solutions for higher education
- Paid internships and conference assistantships
- Esri Press books and associated online exercises
- *ArcNews* and *ArcUser* magazines
- Web-based and instructor-led online training
- A Young Professionals Network
- Massive Open Online Courses (MOOCs), and
- Volunteer opportunities for retirees.

The goal of Esri's Lifelong Learning program is to inspire people to apply geography in amazing ways that benefit individuals, families, communities, and our changing world.

For additional information about Esri's higher education programs, Contact Esri's Higher Education team at highered@esri.com.

LONG BEACH CITY COLLEGE

PHYSICAL SCIENCE DEPARTMENT
DEGREES OFFERED: Associate in Arts in Geography for Transfer Degree (AA-T)
COURSES OFFERED: Physical Geography, Physical Geography Lab, Cultural Geography, World Regional Geography, Introduction to Geographic Information Systems, Weather and Climate, Field Methods in Geography, The Global Economy, Geography of California.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Physical Science Department, 4901 E. Carson St., Long Beach, CA 90808 (562) 938-4168

PROGRAMS: The Associate in Arts in Geography for Transfer Degree (AA-T) is intended for students who plan to complete a bachelor's degree in geography at a California State University (CSU) campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus. In order to earn this degree, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

FACULTY:

J. Chris Carter, Professor of Geography. Ph.D., University of California Santa Barbara/San Diego State University (ccarter@lbcc.edu)

Kim Hatch, Associate Professor, Physical Science. M.A, California State University, Long Beach (khatch@lbcc.edu)

Ray Sumner, Professor of Geography. Ph.D., University of Queensland (rsumner@lbcc.edu)

LOS ANGELES PIERCE COLLEGE

DEPARTMENT OF ANTHROPOLOGICAL AND GEOGRAPHICAL SCIENCES
DATE FOUNDED: 1999
DEGREES OFFERED: Associate in Arts in Geography for Transfer Degree; Geographic Information Systems (GIS) Certificate of Achievement; Associate in Arts in GIS (pending state approval)
HEAD: Diane Levine
DEPARTMENT ADMINISTRATIVE ASST: None

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Anthropological and Geographical Sciences, Los Angeles Pierce College, 6201 Winnetka Ave., Woodland Hills, CA 91371. (818)710-2876, levinedp@piercecollege.edu

PROGRAMS AND RESEARCH FACILITIES: Pierce offers several lower division transferable courses in Geography and G.I.S.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Any person 18 years or older can apply to Pierce College for admission.

FACULTY:

Adrian Youhanna, MA CSUN 1999 — Physical, Cultural, GIS

ADJUNCT FACULTY:

Ann Dittmer
Betty Lininger
Jack Kranz
Jorge Sifuentes
Daniel Waktola
Jessica Douglas

EMERITUS FACULTY:

Mark Powell, M.A. CSUN 1966 — Weather and Climate, Physical

William H. Russell, M.A. CSUN 1970 — Physical, Cultural, Weather and Climate

John Carthew, Ph.D. UCLA 1964 — California, World Regional, Physical

ORANGE COAST COLLEGE

GEOGRAPHY DEPARTMENT
DATE FOUNDED: 1947
DEGREES OFFERED: Associate in Arts in Geography for Transfer Degree (AA-T)

FOR FURTHER INFORMATION CONTACT: Irene Naesse or Chris Quinn, Geography Department, Orange Coast College, 2701 Fairview Road, Costa Mesa, California 92626.
Telephone (714) 432-5032 or 432-5028.
E-mail: inaesse@occ.cccd.edu or cquinn@occ.cccd.edu.
Website:
www.orangecoastcollege.edu/academics/divisions/social_behavioral/Geography/Pages/default.aspx

COURSES OFFERED: The geography program at Orange Coast College is one of the largest in Southern California. In 2014, OCC awarded the highest number of Associate for Transfer Degrees than any other program in the state of California. Geography students have a wide breath of geography course offerings, including: Physical Geography, Physical Geography Lab, World Regional Geography, Cultural Geography, California Geography, Introduction to Weather and Climate, Introduction to Geographic Information Systems (GIS), and Regional Field Studies in Geography.

Students may participate in departmental field trips, service learning opportunities, study abroad programs, and use of a GIS lab.

FACULTY:

Irene Naesse, M.A., San Diego State University, 1998 — world regional geography, physical geography, physical geography lab, cultural geography

Amina Adan, M.A., University of Los Angeles, 1992 — world regional geography

Chris Quinn, M.A., California State University, Long Beach, 2004 — world regional geography, physical geography, physical geography lab, cultural geography, California geography, weather and climate, geographic information systems

SAN DIEGO MESA COLLEGE

SOCIAL SCIENCES DEPARTMENT
DEGREES OFFERED: A.A in Geography, A.A. for Transfer in Geography to the California State University system

FOR FURTHER INFORMATION WRITE TO: Dr. John Crocitti, Chair, Social Sciences Department, San Diego Mesa College, 7250 Mesa College Drive, San Diego, CA 92111-4998
Telephone (619) 388-2471.
E-mail: jcrocitt@sdccd.edu
Internet:http://www.sdmesa.edu/students/academic-programs/geography/

COURSES OFFERED: Physical Geography, Physical Geography Laboratory, Cultural Geography, World Regional Geography, Introduction to Urban Geography, Independent Study

FACULTY:

Kenneth J.E. Berger, D.Env. (University of California at Los Angeles, 1982), Professor

Waverly C. Ray, Ph.D. (Texas State University – San Marcos, 2012), Assistant Professor
Mark M. Trembley, M.A., M.L.A. (University of California at Berkeley, 1970, 1975, respectively), Professor Emeritus
Christa Stutz Farano, Ph.D. (Texas State University – San Marcos, 2015), Adjunct Faculty
Barbara Batterson, M.S. (University of California at Davis, 1990), M.A., M.S. (San Diego State University, 2007, 2011, respectively), Adjunct Faculty
Fred Stutz, Ph.D. (Michigan State University, 1970), Adjunct Faculty
Jonathan Rossiter, M.A. (San Diego State University, 2010), Adjunct Faculty

SAN DIEGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1914
GRADUATE PROGRAM FOUNDED: 1956
GRANTED 05/31/14-05/31/15: 42 Bachelors, 14 Masters, 5 Ph.D.
STUDENTS IN RESIDENCE: 126 Majors, 45 Masters, 26 Ph.D.
CHAIR: Piotr Jankowski
DEPARTMENT COORDINATOR: Patricia O'Leary

FOR FURTHER INFORMATION WRITE TO: Diana Richardson, Undergraduate Advisor, Allison Bailund, Graduate Program Coordinator, Dr. Allen Hope, Master's Program Advisor, or Dr. Fernando Bosco, Ph.D. Program Advisor, Department of Geography, San Diego State University, San Diego, California 92182-4493. Telephone (619) 594-5437. Fax (619) 594-4938.
E-mail: geography@mail.sdsu.edu. Internet: geography.sdsu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department faculty is dedicated to quality teaching and scholarly research. Graduate and undergraduate students interact closely with faculty.

DOCTORAL: A Ph.D. program in geography is offered jointly with the University of California, Santa Barbara. The program offers work in the following systematic areas with supporting development of skills in spatial techniques as follows: (A) Systematic Areas: (1) Human Geography: Comparative urban structure; economic geography; social and critical theory; social and political geography; urban cultural geography; urban and regional modeling. (2) Environmental Geography: Society and environment; watershed/ecosystem analysis. (3) Physical Geography: Biogeography; climatology; hydrology and geomorphology. (B) Spatial Analytical Techniques: Remote sensing and image processing; geographic information systems; cartography and internet mapping; big data analytics, geostatistics, geocomputation and spatial modeling; spatial quantitative and qualitative methods.

MASTERS: A flexible curriculum complemented by careful advising permits the department to design a program tailored to the professional goals of each master's candidate. Students benefit from a long tradition of close faculty-student contact. The main emphases of the master's program are the systematic areas and spatial techniques listed above in the doctoral section. Graduate student internships are available. A general M.A. degree and an M.S in Geographic Information Science or Watershed Science are both offered.

UNDERGRADUATE: The undergraduate major offers two B.A. degrees, and a B.S. degree. The B.A. degree in Applied Arts and Sciences is offered with emphasis in Foundations of Geography. The B.A. degree in Liberal Arts and Sciences consists of emphases in (a) Environment and Society, (b) Human Geography and Global Studies, (c) Integrative Geography, (d) Methods of Geographic Analysis, and (e) Urban and Regional Studies. The B.S. degree in Applied Arts and Sciences consists of emphases in (a) Environmental and Physical Geography, and (b) Geographic information Science. The Internship Program provides opportunities for students to apply their geographic training in business, planning, and resource management situations.

GEOGRAPHIC INFORMATION SCIENCE CERTIFICATE: The certificate offers flexible program of 9 courses distributed between the departments of Geography and Computer Science. The program emphasis is on computational skills and data analytics.

FACILITIES AND EQUIPMENT: In addition to well-equipped classrooms and lecture halls, the Department has spatial processing, cartographic, qualitiative methods, remote sensing/GIS, and physical geography laboratories, as well as field and photogrammetric equipment. The Center for Interdisciplinary Studies of Youth and Space (ISYS) offers qualitative and applied research opportunities for faculty and students interested in children, youth, families and communities. SDSU operates three field stations in San Diego and Riverside counties. The Center for Earth Systems Analysis Research (CESAR), the Department's specialized laboratory facility, has spatial data processing capabilities including 10 Sun workstations and servers, 55 Dell workstations and servers, 10 Apple MacPros, E-size plotters and printers, and IP/GIS/mapping software (ERDAS, ENVI, ArcGIS, ArcView, IDRISI, Overwatch Feature Analyst, Definiens and BAE Systems). The Center for Human Dynamics in the Mobile Age addresses opportunities that spring from convergence of new developments in spatial science, mobile technology, big data, and social behavior research. The Center for Information Convergence and Strategy offers opportunities for transdisciplinary research and education, with particular focus on data mining and advanced visual techniques, building strategic solutions for government and private industry. The UC San Diego supercomputer center is readily accessible. Extensive field equipment includes survey and mapping quality GPS units, spectral radiometer, field spectrometers and two high-resolution airborne digital imaging systems. In addition, Love Library has a collection of over 150,000 flat maps and more than 1,000 atlases.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
DOCTORAL: This program is administered jointly by the Departments of Geography at SDSU and UCSB. Normally, the student will spend the first year at SDSU, the second at UCSB, and subsequent years at SDSU. Although there is no specified number of units, students with a master's degree in geography can expect to complete a minimum of 45 semester units (75 quarter units). Satisfactory completion of a dissertation consisting of original research of publishable quality is required. Research and teaching associateships are available on a competitive basis. Deadline for application form, statement of purpose, three letters of reference, transcripts, and GRE scores is December 15. Undergraduate GPA of at least 3.25, a graduate GPA above 3.50, and a combined (verbal and quantitative) GRE score of at least 307 (new scale) or 1100 (old scale) is expected. Both verbal and quantitate scores should exceed the 50th percentile.

MASTERS: The Master's program requires 30 semester units of coursework including the submission and defense of a thesis. Assistantships are available for qualified students on a competitive basis; deadline for applications, three letters of reference, transcripts and GRE scores is December 15. Semester system. Minimum graduate admission standards include a GPA of 3.0 on last 60 semester units of undergraduate credit, and a combined (verbal and quantitative) GRE score of at least 300 (new scale) or 1000 (old scale).

UNDERGRADUATE: For admission requirements, refer to the University General Catalog.

FACULTY:

Edward Aguado, Ph.D., Wisconsin, 1983, Professor — climatology, meteorology, physical

Stuart C. Aitken, Ph.D., Western Ontario, 1985, Professor and The June Burnett Chair in Children's and Family Geographies — urban, gender, film, children, qualitative methods

Li An, Ph.D., Michigan State, 2003, Professor — landscape ecology, human-environment interactions, modeling of complex systems, statistics, GIS

Trent Biggs, Ph.D., UC Santa Barbara, 2003, Associate Professor — landuse effects on hydrology, watershed science, regional biogeochemistry, physical geography

Fernando Bosco, Ph.D., Ohio State University, 2002, Professor — urban, social movements and collective action, social and cultural theory, economic

George Christakos, Ph.D., Harvard, 1990, Professor, and The Stephen and Mary Birch Foundation Endowed Chair in Geographical Studies — statistics, geostatistics, environmental/ecological/health and mathematical modeling

Anne-Marie Debbané, Ph.D. York University, Canada, 2010, Assistant Professor — political ecology/economy, urban nature and social justice, water governance and development, geographies of socio-environmental change in South Africa

Fernando De Sales, Ph.D., UCLA, 2006, Assistant Professor — climate modeling, land-surface atmosphere interaction processes, impacts of land-use and land-cover change on climate, regional dynamic downscaling, and forecast verification methods

Kathleen A. Farley, Ph.D., Colorado, 2002, Associate Professor — environmental science and policy, land use change, ecosystem processes and services, physical geography

Allen S. Hope, Ph.D., Maryland, 1986, Professor — remote sensing, hydrology, climatology

Piotr Jankowski, Ph.D., Washington, 1989, Professor & Chair — GIScience, spatial decision support systems, public participation GIS, visual analytics

Pascale Joassart, Ph.D., University of Southern California, 1999, Associate Professor — Economic geography, urban geography, public policy

Arielle Levine, Ph.D., UC Berkeley, 2006, Assistant Professor — coastal and marine spatial planning, community involvement in natural resource conservation and management, participatory mapping, institutional dynamics in international conservation and development

Atsushi Nara, Ph.D., Arizona State University, 2011, Assistant Professor — GIScience, spatio-temporal data mining and knowledge discovery, modeling behavioral geography and social dynamics, geocomputation tool development

John F. O'Leary, Ph.D., UCLA, 1984, Professor — biogeography, physical, environmental analysis

André Skupin, Ph.D., SUNY at Buffalo, 1998, Professor — GIScience, cartography, information visualization, visual data mining

Douglas A. Stow, Ph.D., UC, Santa Barbara, 1985, Professor — remote sensing, environmental monitoring, landscape ecology

Kate Swanson, PhD., U. of Toronto, 2005, Associate Professor — youth identities and childhood, labor migration, indigenous peoples, urban, Latin America

Ming-Hsiang Tsou, Colorado, 2001, Professor — GIScience, Internet-based GIS applications, distributed computing, intelligent agents, user interface design

EMERITI FACULTY:

Barbara E. Fredrich, Ph.D., UCLA, 1975
Arthur Getis, Ph.D., Washington, 1961
Ernst C. Griffin, Ph.D., Michigan State, 1972
Warren A. Johnson, Ph.D., University of Michigan, 1969
Elmer A. Keen, Ph.D. Washington, 1967
David S. McArthur, Ph.D., Louisiana State, 1969
Philip R. Pryde, Ph.D., Washington, 1969
Imre E. Quastler, Kansas, 1971
Frederick P. Stutz, Ph.D., Michigan State, 1970
John R. Weeks, Ph.D., UC, Berkeley, 1972
Richard D. Wright, Ph.D., Kansas, 1967

SAN FRANCISCO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENT
DATE FOUNDED: 1937
GRADUATE PROGRAM FOUNDED: 1965
DEGREES OFFERED: B.A., B.S., M.A., M.S.
GRANTED 9/1/14 – 8/31/15: 68 Bachelors, 10 M,A., 7 M.S.
STUDENTS IN RESIDENCE: 142 Majors, 54 Masters
NOT IN RESIDENCE: 22 Masters
CHAIR: Jerry Davis
DEPARTMENT OFFICE COORDINATOR: Theresa Kane

FOR FURTHER INFORMATION WRITE TO: Nancy Wilkinson, Graduate Coordinator, Department of Geography & Environment, San Francisco State University, 1600 Holloway Avenue, San Francisco, California 94132. Telephone (415) 338-2049. Fax (415) 338-6243. E-mail: nancyw@sfsu.edu. Internet: http://geog.sfsu.edu/.

PROGRAMS AND RESEARCH FACILITIES: The M.A. program prepares students for careers as environmental or technical professionals working in public agencies, consulting firms or nonprofits, or for careers in academic geography. Opportunities for specialization include geographic techniques, physical geography, land use planning and human geography. A Masters Concentration in Resource Management and Environmental Planning prepares individuals for careers in environmental management, planning, monitoring and advocacy. The MS in GIScience program prepares graduate students for advanced careers in a wide range of geospatial information research and applications, including geographic information systems (GIS), remote sensing, global positioning systems (GPS), and spatial statistics. Departmental facilities include a geographic analysis teaching laboratory, GIS/Remote Sensing lab, environmental science lab, physical geography lab, map library; funded research projects are supported by the Institute for Geographic Information Science. SFSU is the California State University GIS Specialty Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The major program includes four core courses; a distribution requirement of one course each in physical, human, regional and techniques/applied geography; and 3-4 upper courses in a focus of interest, for a total of 39-42 units.

GRADUATE: Semester system. Minimum of 30 units of work in geography including 5 graduate seminars (M.A.) or 2 graduate seminars and 3-4 graduate GIScience courses (M.S.), and a Masters thesis or research project. A minimum of 3-4 semesters needed for completion of coursework. Admission requirements include a GPA of 3.25 or better in last 60 units, GRE scores, Statement of Purpose and two letters of recommendation, and a B.A. or 15 undergraduate semester units in geography (or a related field for the M.S.). A student may be admitted to the program conditionally, pending completion of undergraduate prerequisite coursework with appropriate grades.

FACULTY:

Jennifer Blecha, Ph.D., Minnesota, 2007, Assistant Professor — urban ecology, food systems and sustainable agriculture, urban agriculture, gender, animals

Leonhard Blesius, Ph.D., Iowa, 2002, Associate Professor — remote sensing of the environment, landslide susceptibility analysis, geomorphological hazards

Tendai Chitewere, Ph.D., Binghamton (SUNY), 2006, Associate Professor — environmental anthropology, sustainable communities, green consumerism, water resources, agriculture

Jerry D. Davis, Ph.D., Georgia, 1987, Professor — geomorphology, soils, GISci, field methods, watershed science & modeling

Courtney Donovan, Ph.D., Washington, 2008, Assistant Professor — medical geography, women's health, immigrant health, international health, gender

Qian Guo, Ph.D., Tennessee, 1996, Associate Professor — regional geography, cultural geography, China

Jason Henderson, Ph.D., Georgia, 2002, Professor — land use planning, transportation

Ellen Hines, Ph.D., Victoria, 2002, Professor — GISci, endangered marine species, marine resources

Barbara A. Holzman, Ph.D., UC Berkeley, 1993, Professor — biogeography, resource management, environmental studies, vegetation change

XiaoHang Liu, Ph.D., UC Santa Barbara, 2003, Associate Professor — GISci, remote sensing, spatial analysis, urban and environmental modeling

Leora Nanus, Ph.D., Colorado, 2008, Assistant Professor — hydrology, watershed biogeochemistry, water quality, environmental science, GIS

Andrew J. Oliphant, Ph.D., University of Canterbury, 2000, Professor — micrometeorology, boundary layer meteorology, applied climatology

Nancy Lee Wilkinson, Ph.D., Oregon, 1984, Professor — water resources, environmental perception, environmental history

EMERITUS FACULTY:
Roger J. Crawford, Ph.D., Washington, 1969
Patricia Foschi, Ph.D., Oxford, 1993
Larry Foster, Ph.D., Michigan State, 1962
Max C. Kirkeberg, M.A., Wisconsin, 1959
Hans J. Meihoefer, Ph.D., Washington, 1968
John E. Westfall, Ph.D., George Washington, 1969

UNIVERSITY OF CALIFORNIA, BERKELEY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1898
GRADUATE PROGRAM FOUNDED: 1908
DEGREES OFFERED: A.B., Ph.D.
GRANTED 9/1/15-8/31/16: 42 Bachelors, 2 Ph.D.
STUDENTS IN RESIDENCE: 110 Majors, 50 Ph.D.
NOT IN RESIDENCE: 10 Ph.D.
CHAIR: Nathan F. Sayre
DEPARTMENT MANAGER: Josh Mandel

FOR INFORMATION AND ADMISSIONS: For general information, contact Deborah Gray. Telephone (510) 642-3903. E-mail: *debgray@berkeley.edu*. For the undergraduate and graduate handbook and admissions information, contact Marjorie Ensor, Student Academic Advisor. Telephone (510) 642-3904. E-mail: *ensor@berkeley.edu*. Mail address: Department of Geography, 505 McCone Hall, University of California, Berkeley, CA 94720-4740. Fax: (510) 642-3370. For more information about the University of California, Berkeley go to: *http://bulletin.berkeley.edu/* Extensive information on the Department can be found at: *http://geography.berkeley.edu/*

PROGRAMS AND RESEARCH FACILITIES: Berkeley Geography offers the highest quality graduate training for future scholars and teachers at the collegiate level, as well as for those going into professional careers in government, NGOs and consulting. The program is unified by a common interest in landscapes, spatial processes, and contemporary problems of foremost importance. The program has three major subdivisions: Development & Environment, Local & Global Relations, and Earth System Science. Within these domains a wide range of faculty interests are represented, including political ecology, economic geography, cultural geography, modernity studies, urban studies, geography of race and gender, climatology, biogeography, biogeochemistry, glaciology, and geomorphology. Faculty come with a broad spectrum of regional specialties as well, including Africa, East Asia, Europe, Latin America, the Arctic, the Pacific Basin, California, Mexico, and Central America. The faculty has been expanded in recent years to include a number of affiliates in other departments with expertise in such fields as GIS, natural resources, fluvial geomorphology, archeology, cognition, paleo-environments, and urban architecture.

Berkeley students are expected to be independent, and we welcome those who have had professional experience and wish to return to deepen their education. Students are encouraged to range freely through the curriculum and to follow their inspiration where it leads, working in tandem with faculty advisors. Students choose their own mentors, often conferring with two or three faculty in equal measure; these may include faculty affiliates and members from other departments. While faculty have their own research agendas and teaching specialties, and often collaborate with students, we believe students should march to their own drummer. We expect students to read extensively, develop the necessary research skills, and produce a well-crafted dissertation. Many students publish their findings along the way, as well.

The University of California at Berkeley is the premier graduate research and education institution in the United States, and Geography students can take advantage of a wealth of corollary programs and faculty. Geographers regularly interact with faculty and students from the College of Natural Resources, College of Environmental Design, Energy and Resources Group, Earth and Planetary Science, Biological Sciences, Departments of Anthropology, Sociology, Economics, Women's Studies and Ethnic Studies in the Division of Social Sciences, and with Art History, English and others of the Humanities. The campus is rich with interdisciplinary Centers and Institutes, including International Studies, Latin American Studies, Labor Studies, Atmospheric Sciences, Southeast and East Asian Studies, Humanities, and European Studies. Collaboration with the Lawrence Laboratories is also common. Geographers direct several of these centers and students benefit from research programs, grants and symposia organized under their aegis. Geographers also provide core teaching in Development Studies, Environmental Sciences, and American Studies.

Geography is housed in McCone Hall, near the lively North Gate of campus. The Earth Sciences and Map Library is downstairs. Across the glade is the Main Library, center of the system housing 11 million volumes, and the exceptional Bancroft Library, the greatest archive of materials on Western and Central America. The Department facilities include classrooms, offices for faculty and graduate students, research laboratories, and cartography/GIS and remote sensing teaching labs. Central to our operations is the Department Computer Facility, one of the best of its kind on campus and a hub of everyday faculty, staff and student operations. Its main lab, specializing in graphics, cartography, and GIS, includes scanners, digitizer, and color printers, backed up by a Web Server, extensive software library, and the campus TCP-IP network. The Department staff provides excellent support in all areas, including student services, grants, equipment, computing and cartography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: Admissions (Ph.D.): Students are admitted to the University of California by the Graduate Division, on the recommendation of the Department. The prospective graduate student submits the Graduate Application for Admission and Fellowship on-line (obtain application electronically at: *http://www.grad.berkeley.edu/admissions/grad_app.shtml*). The following are submitted to the on-line application: statement of purpose; personal history essay; official transcript, with a Grade Point Average (GPA) of at least a B (3.0) in the last two years of college work; scores from the Graduate Record Examination (GRE) General Test; scores from an official TOEFL report (required of international applicants from countries whose official language is not English); and three letters of academic appraisal. Application deadline is December 1 for Admissions and Fellowships. Admission is for Fall only. The GRE should be taken in October prior to the application deadline.

Ph.D. Degree Requirements: All students take GEOG 200A/B in their first year and register for at least 12 units per semester (primarily graduate seminars) for a minimum of two years before taking the Qualifying Examination and advancing to candidacy. By the end of the third year, students entering with a B.A. or B.S. only must hand in a paper that would be suitable for submission to an academic or scientific journal. All students must take the Qualifying Exam by the end of the third year, although it is recommended that students entering with an M.A. take it by the end of their second year. Before starting dissertation research, each student must have an approved Dissertation Prospectus. The Ph.D. dissertation is written by the student under the supervision of a committee of three members of the University faculty.

Financial Aid: Outstanding applicants are nominated for University Fellowships of various kinds, which top candidates are normally offered. The department also offers financial support in the form of Graduate Student Instructorships and internal fellowships from Block Grants and endowments (the Carl Sauer, the Holway, Kenneth and Florence Oberholtzer, McCone, Brechin-Chlebowski and the Society of Woman Geographers).

UNDERGRADUATE: Admission: The Berkeley campus is on a semester calendar, with the Fall semester beginning in late August. The application filing period for the Fall semester, for both freshman and transfer applicants, is the month of November; applications must be postmarked no later than November 30. The UC application for admission to the fall term is available in early October. You may submit an application electronically at: www.universityofcalifornia.edu/apply or you may print the form for mailing from the same site. Online completion of the application is encouraged.

Degree Requirements: Geography majors must take three lower division courses, and at least eight upper division courses. Of the latter, there are two options: majors complete five courses in one specialty group and two in the other, plus one methodology course; or majors complete four courses in one specialty group and two in the other, plus two methodology courses. The two specialty areas are Earth System Science and Economy, Culture & Society.

The Department offers a Minor that requires a minimum of five upper division courses. Students must maintain an overall grade point average of 2.0 for all courses taken for the minor. A minimum of three courses must be taken on the Berkeley campus. Students must take at least one course in the physical area and one course in the human area from amongst the courses listed in the range of 109-175. Students may select courses in the range of 181-188, but if so there are several that have limited enrollment and require permission of the instructor.

FACULTY:

Jeffrey Q. Chambers, Ph.D., UC Santa Barbara, 1998, Associate Professor — terrestrial ecosystem ecology and biogeography, tropical forests and climate change interactions, landscape dynamics and remote sensing

John C.H. Chiang, Ph.D., Columbia University, 2001, Associate Professor — tropical ocean-atmospheric dynamics, seasonal and longer-term climate variability, paleoclimate dynamics

Kurt M. Cuffey, Ph.D., University of Washington, 1999, Professor — the paleoclimate record in ice sheets, the dynamics of glaciers and ice sheets, glacial landforms, physical and chemical transformations of polar snowpacks, drainage basin processes

You-tien Hsing, Ph.D., University of California, Berkeley, 1993, Professor — economic restructuring and local states in post-Mao China, the work of overseas Chinese capital networks, technology development in Asia's newly industrialized economies, Asia

Jake Kosek, Ph.D., UC Berkeley, 2002, Associate Professor — cultural politics of nature and difference, science and technology studies, critical race theory, ethics, biopolitics, human and the non-human environmental politics

Laurel G. Larsen, Ph.D., University of Colorado, 2008, Assistant Professor — hydroecology, landscape dynamics, complex environmental systems, environmental restoration

Jovan Lewis, Ph.D., London School of Economics, 2014, Assistant Professor — Economic anthropology of Jamaica and the USA; cooperation and inequality; constructions of race, economy, and the market.

Beatriz Manz, Ph.D., SUNY Buffalo, 1977, Professor — Central and Latin America, human and political geography, population migration

David O'Sullivan, Ph.D., University of London, 2000, Associate Professor — Spatial modelling, complex theory, geocomputation, applying GIS tools to the urban environment

Robert Rhew, Ph.D., UC San Diego, Scripps Institution of Oceanography, 2001, Associate Professor — terrestrial-atmosphere exchange of trace gases, atmospheric chemistry and composition, halogen biogeochemistry, stratospheric ozone depletion issues

Nathan F. Sayre, Ph.D., Chicago, 1999, Professor — human-environment interactions, ranching and pastoralism, rangeland ecology and management, scale, endangered species, environmental history, urbanization/land use change

Harley Shaiken, B.A., Wayne State, 1977, Professor — industrialization, work organization and global production, Latin America

ADJUNCT FACULTY:

Norman L. Miller, Ph.D., Wisconsin, 1987 — regional climate and hydrology, climate change impacts

David Wahl, Ph.D., UC Berkeley, 2005 — Central America, Western US, Pacific Islands

AFFILIATED FACULTY:

William Dietrich, Ph.D., University of Washington, 1982, Professor of Earth and Planetary Science — hillslope and fluvial geomorphology

Louise Fortmann, Ph.D., Cornell, 1973, Professor of Environmental Science, Policy and Management — property, poverty, gender, community natural resource management, U.S. and southern Africa

B. Lynn Ingram, Ph.D, Stanford, 1992, Professor of Earth and Planetary Science — paleoclimatology, paleoenvironmental reconstruction, isotope geochemistry, paleoceanography and marine stratigraphy

Patrick V. Kirch, Ph.D., Yale, 1975, Professor of Anthropology — prehistory and ethnography of Oceania, ethnoarchaeology and settlement archaeology, prehistoric agricultural systems, cultural ecology and paleoenvironmentalism, ethnobotany and ethnoscience, development of complex societies in Oceania

G. Mathais Kondolf, Ph.D., Johns Hopkins, 1988, Professor of Environmental Planning — applied geomorphology and hydrology, environmental planning

John D. Radke, Ph.D, British Columbia, 1983, Associate Professor of Landscape Architecture and Environmental Planning — GIS, spatial systems for regional environmental planning, metrics for landscape characterization, spatial interaction models

EMERITI FACULTY:

Roger Byrne, Ph.D., Wisconsin, 1972
Orman Granger, Ph.D., Toronto, 1974
Paul Groth, Ph.D., UC Berkeley, 1983
Gillian P. Hart, Ph.D., Cornell, 1978
Michael Johns, Ph.D., Johns Hopkins, 1990
Theodore M. Oberlander, Ph.D., Syracuse, 1963
Robert R. Reed, Ph.D., UC, Berkeley, 1972
Richard A. Walker, Ph.D., Johns Hopkins, 1977
Michael J. Watts, Ph.D., Michigan, 1979

UNIVERSITY OF CALIFORNIA, DAVIS

GRADUATE GROUP IN GEOGRAPHY
DATE FOUNDED: 1955
REORGANIZED AS GRADUATE GROUP: 1994
DEGREES OFFERED: M.A., PhD.
GRANTED 7/1/14-6/30/15: 1 Masters, 6 Ph.D.
STUDENTS IN RESIDENCE: 55
NOT IN RESIDENCE: 2
CHAIR: Robert Hijmans
PROGRAM COORDINATOR: Carrie Armstrong-Ruport
GRADUATE ADVISORS: Ryan Galt; Robert Hijmans; Jay Lund; James Quinn and M. Anne Visser

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Carrie Armstrong-Ruport, Geography Graduate Group, Department of Human Ecology, One Shields Avenue, University of California, Davis, California, 95616. Telephone (530) 752-4119.
E-mail: caruport@ucdavis.edu.
Internet: http://geography.ucdavis.edu/.

PROGRAMS AND RESEARCH FACILITIES: Graduate degrees in Geography are offered through the Graduate Group in Geography (hereafter GGG), which is an interdepartmental group with faculty from the Colleges of Agricultural and Environmental Sciences, Biological Sciences, Engineering, Letters and Science, and the Schools of Medicine and Veterinary Medicine. With over 60 geography affiliated faculty members in 20 departments across campus, in terms of the number and diversity of affiliated faculty, we are among the nation's largest geography program. The graduate group structure emphasizes shared research interests amongst faculty and students, with the flexibility to grow and quickly change to reflect emerging areas of interdisciplinary knowledge and technology. The overall focus of the program is on the natural and built environment, building on the strengths of the campus faculty.

Faculty interests in the GGG are diverse and attract students in such areas as biophysical geography and related natural science and engineering fields, as well as human geography and related social science fields. A number of faculty use and teach GIS, remote sensing, modeling, spatial analysis, and related geographical techniques, and the faculty have a strong field orientation as well. The instructional program focuses on several areas of emphasis where faculty expertise and student interest are the greatest: environmental sciences; global environmental change; landscape architecture and environmental design; methods; models and GIS; nature and society; people, place and region; and regional and community development. GIS science is a cross-cutting area of strength for the group. Faculty and students conduct their research throughout the world, with particular strength in Latin America, Europe, the Middle East, Asia, and California and the Western United States.

Library materials are available on campus, in the State Library, and other state and federal agencies in Sacramento. The city of Sacramento, the state capital, lies 15 minutes east; San Francisco is 75 miles west. The city of Davis has a small-town friendliness and the park-like UC campus has a student body of 35,000. UC Davis is one of the nation's top research universities where more than 7,000 students are engaged in graduate or professional studies. The campus is near two major urban centers, within the agriculturally diverse Central Valley and in close proximity to the Pacific Ocean and the Sierra Nevada, providing outstanding research opportunities at UC research and field stations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The Geography Graduate Group offers the Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.) degrees. Normally, admission into the graduate program is for full-time status, and in Fall Quarter only. Applicants should be prepared in geography or a related field. Students must contact the faculty to identify a major professor during the admission process.

The minimum admission requirement is a grade point average of B (3.0 out of 4.0) in upper-division course work taken during the applicant's last two years as an undergraduate, or other evidence of comparable scholarship. The GRE General Test is also required. Test should have been taken within the past five years. The TOEFL iBT is required of all applicants whose native language is not English, or whose education was not in English. A minimum score of 80 is required. Complete online applications for both admission and financial aid must be received by January 2nd to the GGG for fellowship, block grants and out-of-state fee waivers.

To obtain materials visit the GGG website at http://geography.ucdavis.edu. Contact the GGG Program Coordinator, Department of Human Ecology, One Shields Avenue, University of California, Davis, CA 95616. Telephone: (530) 752-4119. E-mail: caruport@ucdavis.edu.

FACULTY:

Gwen Arnold — environmental policy; common-ground resource theory and management; bureaucratic decision-making in resource management; hydraulic fracturing (fracking); institutional analysis; social networks

Michael Barbour (Emeritus) — plant ecology, North-Central-South America, Australia

Tom Beamish — social and organizational response to environmental change and disaster

Stephen Boucher — international agricultural development; Agricultural credit and insurance markets.

Cynthia Brantley (Emeritus) — African social history, gender in Africa, history of Africa nutrition, East Africa

Catherine Brinkley — public health outcomes around the food-energy-waste nexus. Qualitative methods and social network mapping and spatial analytics to understand farm-to-city services such as food supply and waste-to-energy. Particular interest in how these networks impact neighborhood socio-economics and greenhouse gas emissions in an effort to support sustainable land-use planning around environmental justice.

Stephen Brush (Emeritus) — cultural ecology, eastern Mediterranean, North — Central — South America

Mary L. Cadenasso — crop and ecosystem sciences, horticultural sciences

Thomas A. Cahill (Emeritus) — atmospheric optics and haze, especially smoke from forest fires

Dave Campbell — public policy and community governance; citizenship and civic engagement; non-profit and faith-related organizations; program evaluation

Diana Davis — environmental history, veterinary history, colonialism, potitical economy, Middle East and North Africa, pastoral societies and arid lands

Adela de la Torre — HIV prevention in high risk groups in Mexico and Nigeria, binational/border health, immigration policy in the US and Latin America, health, education and income disparities in the US; gender, health and geography

Natalia Deeb-Sossa — Borderlands, in-betweenness and instability, sites of boundary-making and fragmentation, but also resistance and continual reconstruction.

Dennis Dingemans (Emeritus) — urban planning, North America, Europe

Deborah L. Elliott-Fisk (Emeritus) — Quaternary environments, coastal, mountain, and alpine, restoration, North America; biogeography, geomorphology and soils, viticultural geography

Joan Florsheim (Emeritus) — geomorphology, climate change, anthropogenic disturbances, and restoration

Mark Francis (Emeritus) — urban and community design, North America, Europe

Isao Fujimoto (Emeritus) — community change, Asian Studies

Ryan E. Galt — cultural and political ecology, agricultural and environmental governance, political economy of sustainable agriculture, cartographic design, the Americas

Charles Goldman (Emeritus) — conservation, restoration, geographic information systems (GIS), North America

Elise Gornish — restoration ecology and invasive species management, particularly investigating effects of management across spatial scales.

Steven Greco — conservation, restoration, geographic information systems (GIS), North America

James Grieshop (Emeritus) — community development, North — Central America

Louis Grivetti (Emeritus) — nutritional geography, Africa, eastern Mediterranean, Southeast Asia

Luis Guarnizo — economic sociology, transnational migration, immigrant entrepreneurs, comparative international development, citizenship

Joyce Gutstein (Emeritus) — environmental geography, biodiversity, education

Erin Hamilton — Sociology, social demographics

Susan L. Handy — transportation and land use, travel behavior

Andrew Hargadon — designing programs that align industry and entrepreneurship with university research, in particular in the fields of sustainable technologies

Lynette Hart — companion animals, elephants, Africa, North America

Rebecca Hernandez — broadly focuses on the ecology, ecosystems, and sustainability of aridlands globally. Sustainability work focuses on the geography of energy, the land-energy-environment nexus, land-use and land-cover change of energy, environmental impacts of energy, energy transmission, energy policy, solar and wind energy systems and optimization, and the use and development of big geospatial energy datasets. Ecological work on soils incorporates biogeography and spatiotemporal dynamics of soil biogeochemistry and microbes in aridland ecosystems.

Robert Hijmans — ecological modeling, geo-informatics, agricultural geography, biodiversity conservation, climate change

Frank Hirtz (Emeritus) — law & development, development planning, social policy & welfare, Southern Africa, Southeast Asia

Richard Howitt (Emeritus) — Resource Economics, Environmental Economics, Quantitative Methods, Econometrics, Operations Research

Hsuan Hsu — focuses on literary representations of space, environment, and inequality

Yufang Jin — Remote sensing of terrestrial ecosystems, fire disturbance, ecohydrology, biogeochemical cycle, climate change, and GIS

Suad Joseph (Emeritus) — women in development, Middle East

Carl Keen — teratology and birth defects, North America, Southeast Asia

Martin Kenney — Silicon Valley and regional development, Asian overseas investments, electronics industry

Pete Klimley — movements of fishes, sharks and marine mammals relative to their social and physical environments; ultrasonic, radio and satellite telemetry; mechanisms of orientation and migration

Eric Larsen — fluvial geomorphology, hydrology, watersheds, North America

F. Thomas Ledig (Emeritus) — evolution and biogeography, North America, Mexico, Australia, Mediterranean basin

Frank Loge — Design and function of sustainable urban system; landscape ecology related to fisheries management; ecologies of infectious diseases; interconnection between water and energy systems.

Jonathan London — Environmental justice, rural community development, participatory action research, political ecology, Central Valley.

Jeff Loux — environmental policy, community planning, land use planning, North America

Mark Lubell — environmental policy; community — based management; social networks, human cooperation; quantitative analysis

Jay R. Lund — resource management and planning, water resources, urban geography

Dean MacCannell (Emeritus) — semiotics, social policy and the environment, North America

Amima Mama — focusing on the contribution research can make in the pursuit of social justice and feminist agendas and community advocacy

Greg McPherson — urban forest ecology, benefit — cost analysis

Jay Mechling (Emeritus) — U.S., vernacular landscapes, food ways, animal/human relations

Beth Middleton — North America and Caribbean. Native American community/economic development; political ecology; Federal Indian law; Native American natural resource policy; qualitative GIS; indigenous geography and cartography; Afro-indigeneity; intergenerational trauma and healing; participatory research methods; rural environmental justice; multi cultural dimensions of conservation, land use, and planning

Brett Milligan — Designed and managed landscapes; urban geography; ecology of infrastructure; landscape modeling; representation and performance metrics; climate change adaptation; theory of accelerated landscape change

Patricia L. Mokhtarian (Emeritus) — travel behavior modeling, telecommunication impacts, transportation and land use

Jeffrey Mount (Emeritus) — fluvial geomorphology

Peter Moyle (Emeritus) — fish biology, wildlife conservation, watershed ecology and nature/culture

N. Claire Napawan — Design of the built environment and investigating the roles in which landscapes might adapt to provide ever increasing productive and infrastructural programs to the global city, given economic, social, and environmental changes within urban development, including population growth and climate change

Bettina Ng'weno — States and property in Latin America and Africa. The construction and mobilization of space with a focus on governance, categorization, citizenship, territory and movement. Social production of space and the stories and histories told about emplacement and the movement of ideas, people and things between Africa and Asia

Debbie Niemeier — transportation-air quality modeling and policy, sustainability, and environmental justice

Lorence R. Oki — environmental horticulture and water quality

Patsy Eubanks Owens — environments of children and adolescents, community participation

Richard Plant (Emeritus) — geographic information systems (GIS), China, Europe, North America

James Quinn (Emeritus) — conservation biology, Gap Analysis, GIS
Noha Radwan — Arabic and comparative literature
Michael Rios — political geography, urban design, community development
Robyn Rodriguez — how understandings of belonging are changing with increased mobility across borders and whether citizenship regimes are being reconfigured as a consequence. She has explored these concerns with a particular focus on contractual laborers from the Philippines.
Lynn Roller — Classical landscapes and biophysical environment; Eastern Mediterranean
Margaret Rucker (Emeritus) — clothing and environmental hazards, North America, China
Hugh Safford — Community and landscape ecology, fire ecology, restoration ecology and biogeography
Ann Savageau — natural world, human material culture, and their intersection and interaction.
Heath Schenker (Emeritus) — landscape history, Europe and South America
Mark Schwartz — taxonomic and geographical aspects of conservation biology
Art Shapiro — evolution, population dynamics, North-South America
Sheryl-Ann Simpson — urban, political, cultural and health geography, comparative social planning, critical GIS and spatial analysis, immigration and social/political participation
Aaron Smith — agriculture and resource economics, econometrics, finance
Michael P. Smith (Emeritus) — urban political economy and culture, globalization and transnationalism
Smriti Srinivas — urban cultures, place-making, utopias, social memory, cultures of the body and performance, religion, South Asia within a comparative context
Margaret Swain (Emeritus) — sustainable development, tourism, China, Europe
Julie Sze — gender and the environment
Kenneth Tate — rangeland watershed specialist
Robert L. Thayer, Jr. (Emeritus) — environmental perception and sustainable landscape development, North America
James Thorne — international conservation, transportation, ecology
Thomas P. Tomich — agricultural sustainability, sustainable food systems, sustainability metrics and indicators, sustainability science; geography emphasis includes land use and land cover change
Susan Ustin — geographic information systems (GIS), remote sensing, North America
Stefano Varese (Emeritus) — indigenous people of Central and South America, environmental struggles
M. Anne Visser — Social inequality and equity, low wage and informal labor markets, socioeconomic integration and incorporation, public and urban policy
Charles Walker — historical geography, human geography, Latin America
Wesley W. Wallender — hydrological science and modeling, GIS
Geoffrey Wandesforde-Smith (Emeritus) — environmental policy, North-South America, Southeast Asia
Karen Watson-Gegeo — Anthropology, applied linguistics; quantitative and ethnographic methods; discourse analysis; rural development; ethnic identity; feminist research; Hawai'i, Solomon Islands, Pacific Islands, South and Southeast Asia, US Native and immigrant populations
Miriam J. Wells (Emeritus) — rural economic development, immigration, ethnicity, work and labor relations, the role of the state
Stephen M. Wheeler — sustainable development; urban design; city and regional planning; land use; climate change
Diane Wolf — women in development, Southeast Asia
Truman Young — plant population and community ecology, restoration, and conservation, Africa
Minghua Zhang — environmental modeling, GIS, risk analysis, agriculture, North America

UNIVERSITY OF CALIFORNIA, LOS ANGELES

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1915
GRADUATE PROGRAM FOUNDED: 1934
DEGREES OFFERED: B.A., M.A., Ph.D.
GRANTED 7/1/14-6/30/15: 227 Bachelors, 5 Masters, 9 Ph.D.
STUDENTS IN RESIDENCE: 390 Majors, 247 Minors, 66 Graduate Students
CHAIR: Laurence C. Smith
Manager: Kasi McMurray

FOR FURTHER INFORMATION WRITE TO: Graduate Adviser, Department of Geography, University of California, Box 951524, Los Angeles, California 90095-1524. Telephone (310) 825-1071. Fax (310) 206-5976. Internet: www.geog.ucla.edu.

PROGRAMS AND RESEARCH FACILITIES:
Producing geographers of the highest quality is the principal goal of UCLA's graduate program, designed primarily for students pursuing the Ph.D. degree. The M.A. Program serves as an essential building block of the doctoral program. The doctorate is awarded to those students who have achieved the level of geographical knowledge and training required of a professional geographer. The degree affirms the ability of its holders to make scholarly contributions in their fields of specialization and to undertake advanced research in those areas.
The research and teaching interests of the faculty cover major areas of geographical knowledge and underlie the graduate program. Broadly grouped these areas include biogeography, physical geography, environmental studies, human geography, regional geography, geographical procedures, and the history and philosophy of geography (see the faculty listing for specific specializations).

Many other distinguished departments in cognate disciplines contribute to the strength of the department. Strong area studies programs exist for Africa, Asia, Europe and Latin America. In addition to departmental faculty several other geographers teach in the Urban and Regional Planning Program.

UCLA provides an enormous range of resources for graduate training and research. The library system contains over five million volumes and one of the largest collections of maps in the western United States.

In the department are laboratories for work in geomorphology, climatology, biogeography, GIS, computer cartography, and quantitative methods. The campus computing facilities include access to a 3090-mainframe system, a Sun cluster, and a LAN operated by Social Sciences Computing (SSC). The SSCnet provides a high level of connectivity, flexibility, power, and service to users (including full Internet access, on-line databases, and an array of software for word-processing, database and spreadsheet, graphic and cartographic, statistical and mathematical analysis. In Southern California and neighboring Mexico exist a seemingly infinite number of potential opportunities and sites for research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Admission: Application deadline for entrance in Fall 2017 is December 15, 2016. All admissions materials may be found on the web at www.gdnet.ucla.edu. All application materials must be submitted online: a personal statement, two copies of a complete set of transcripts of prior university coursework, official results of the Graduate Record Examination (GRE), and three letters of evaluation (academic references are strongly recommended). Foreign students

applying from outside the United States are not required to take the GRE but must submit official Test of English as a Foreign Language (TOEFEL) scores. Normally one should have (1) completed the undergraduate major in geography or in a cognate field, (2) received a B.A./B.S. degree, (3) attained at least a 3.3 grade-point average (GPA) in courses taken in your junior and senior years and in the major for admission to the M.A. program or a 3.5 GPA in graduate courses for students entering the Ph.D. program with a M.A., (4) attained a high GRE score (normally above 1200) in the combined verbal and quantitative sections, (5) strong letters evaluating past academic, and possibly professional, performance and potential for high achievement in graduate studies, and (6) for students applying to the Ph.D., evidence of substantive research in the form of a published paper, thesis chapter, or equivalent documentation.

In addition to the above requirements, admission to the M.A. or Ph.D. program requires that a faculty member from the department express a willingness to serve as interim advisor to the applicant. Students are therefore strongly advised to establish personal contact with potential advisors before application. For a list of faculty and their research interests, please visit www.geog.ucla.edu.

Geography normally admits applicants whose ultimate degree objective is Ph.D. although a M.A. degree may be earned en route to the Ph.D.

M.A. Degree Requirements: Students must complete at least eight courses in addition to two core courses in the history and philosophy of geography and quantitative methods. A thesis is required, based in whole or in part on original investigation.

Ph.D. Degree Requirements: Students must complete eight graduate geography courses (in addition to the two core courses if not already taken during the M.A.) are required. Written and oral qualifying examination precedes dissertation research. The dissertation is the ultimate focus of the Ph.D. program and should make an original contribution to geographic research.

Financial Assistance: The department has limited funding available for graduate students (e.g. teaching assistantships, stipends, tuition assistance and/or other fellowships).

FACULTY:

John A. Agnew, Ph.D., Ohio State, 1975, Professor — political, social, urban geography

Stephen Bell, Ph.D., Toronto, 1991, Associate Professor — historical and cultural geography, Latin America, geographic thought

Judith A. Carney, Ph.D., UC, Berkeley, 1986, Professor — cultural geography, environment and development in the Third World, gender issues, Africa

Kyle Cavanaugh, Ph.D, *UC Santa Barbara, 2011, Assistant Professor* – coastal ecology, biogeography, spatial ecology, and remote sensing

Daniela Cusack, Ph.D., UC, Berkeley, 2009, Assistant Professor — biogeography, tropical ecosystems and soils

*Jared M. Diamond***,** *Ph.D., Cambridge, England, 1961, Professor* — regulation of nutrient transport; integrative and evolutionary physiology, biogeography

Lieba Faier, Ph.D., UC Santa Cruz, 2003, Associate Professor — gender issues, global migration, Japan, Philippines and the United States

C. Cindy Fan, Ph.D., Ohio State, 1989, Professor — population geography, regional development, quantitative methods, spatial modeling, China

Thomas W. Gillespie, Ph.D., UCLA, 1998, Professor — biogeography, geographic information systems, remote sensing

Jamie Goodwin-White, PhD., University of Washington, 2005, Assistant Professor — population geography

Helga Leitner, PhD., Vienna, Austria, 1978, Professor — international migration, politics of immigration and citizenship, urban development & sustainability, global urbanism, urban social movements, and socio-spatial theory

Dennis P. Lettenmaier, Ph.D, University of Washington, 1975, Professor — hydrologic modeling and prediction, hydrology-climate interactions, and hydrologic change

Glen M. MacDonald, Ph.D., Toronto, 1984, Professor and The John Muir Memorial Chair — biogeography, climate change, environmental change, water resources, drought, and environmentalism

Adam Moore, PhD., Wisconsin-Madison, 2010, Assistant Professor — political geography

Gregory S. Okin, Ph.D., California Institute of Technology, 2001, Professor — physical geography and soils, geomorphology and remote sensing

Marilyn N. Raphael, Ph.D., Ohio State, 1990, Professor — physical, climatology, global climate change, cartography/geographic information systems

David L. Rigby, Ph.D., McMaster, 1988, Professor — economic geography, quantitative methods, regional development

Yongwei Sheng, Ph.D., UC Berkeley, 2000, Professor — physical geography, GIS, remote sensing, photogrammetry and global change

Eric Sheppard, PhD., Toronto, 1976, Professor and The Alexander von Humboldt Chair — geographical political economy, uneven geographies of globalization, neoliberalism, urbanization in the global South, urban sustainability and environmental justice, and critical GIS

Michael E. Shin, Ph.D., Colorado, 1998, Associate Professor — political, applied GIS, quantitative, international relations

Laurence C. Smith, Ph.D., Cornell, 1996, Professor — hydrology, remote sensing and GIS

Yongkang Xue, Ph.D., Utah, 1994, Professor — climatology, remote sensing

AFFILIATED FACULTY:

Susanna B. Hecht, UCLA Planning
Thomas Painter, UCLA JIFRESSE, JPL
Michael Storper, UCLA Planning

EMERITI FACULTY:

Charles F. Bennett, Ph.D.
William A.V. Clark, Ph.D.
Michael R. Curry, Ph.D
J. Nicholas Entrikin, Ph.D.
Gerry Hale, Ph.D.
Antony R. Orme, Ph.D.
Melissa Savage, Ph.D.
Allen J. Scott, Ph.D
Werner H. Terjung, Ph.D.
Norman J.W. Thrower, Ph.D.
Stanley W. Trimble, Ph.D
Hartmut S. Walter, Ph.D.

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

DEPARTMENT OF GEOGRAPHY
GRADUATE PROGRAM FOUNDED: 1974
DEGREES OFFERED: BA, BA with GIS Emphasis, BS in Physical Geography, Minor in Spatial Studies, MA, PhD
STUDENTS IN RESIDENCE: 150 Undergraduate Majors, 70 Graduate Students.
CHAIR: Dan Montello

FOR CATALOG AND FURTHER INFORMATION, CONTACT: Graduate Program Advisor: Department of Geography,

University of California Santa Barbara, Santa Barbara, CA 93106-4060. Telephone: (805) 456-2829; Fax: (805) 893-2578;
E-mail: geog-grad_assistant@ucsb.edu; Internet: www.geog.ucsb.edu.

PROGRAMS AND RESEARCH FACILITIES: The Geography Department at UCSB offers specialized graduate training leading toward the Master's and PhD degrees. Areas of concentration include:

EARTH SYSTEM SCIENCE (ESS): This systematic area emphasizes the measurements, analysis, and modeling of hydrologic, atmospheric, oceanic, and terrestrial systems and the interactions between systems. A large proportion of the problems addressed by researchers in ESS involve three common elements: large regional issues; mathematical and computational modeling; and large, spatially indexed datasets.

HUMAN GEOGRAPHY (HG): This systematic area covers the major components of Human Geography offered by the Department, including: human spatial behavior and cognition; spatial decision-making and decision support; urban and regional modeling, planning, and policy; human movement and transportation systems; resource and environmental management; population; human response to the changing environment; health geography.

MODELING, MEASUREMENT, AND COMPUTATION (MMC): This area is the investigation of sets of techniques from the areas of analysis, statistics, and computation that are particularly well-suited to the modeling of the complex, geographic phenomena that are the subject of investigation in both ESS and HG. Important sub-areas include numerical modeling, spatial and temporal statistics, remote sensing, computational modeling and database systems (including geographic information systems), and cartography and visualization, all of which are increasingly dependent on knowledge of computational theory and practice.

The Geography faculty at UCSB have close research and teaching relationships with other disciplines, which provides an excellent multi-disciplinary environment for graduate education. The faculty are outstanding researchers and have a strong record of obtaining extramural funding, which provides considerable support for graduate students. The faculty are notably active as authors of books and peer reviewed articles, as members of editorial boards, and as reviewers of manuscripts for professional journals. This professional activity keeps the UCSB Geography faculty at the leading edge of our discipline; indeed, two of our faculty are members of the National Academy of Science, one is a Fellow of the Royal Academy, and one received the Prix Vautrin Lud, Geography's equivalent of the Nobel Prize. The Department of Geography is also the headquarters of the UCSB Center for Spatial Studies (spatial@ucsb) and has a strong association with the UCSB Earth Research Institute.

JOINT DOCTORAL PROGRAM WITH SAN DIEGO STATE UNIVERSITY (SDSU): The Geography Departments at UCSB and SDSU collaborate to offer a distinctive PhD in Geography that takes advantage of the strengths and environments of both departments. Students in the program will have a PhD supervisory committee with a main adviser from SDSU but at least one or two members from UCSB. They will typically be in residence at SDSU throughout their graduate career but spend one year in residence at UCSB. See http://www.geog.ucsb.edu/graduates/affiliated-programs/#sdsu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Applications are to be made to the Admissions Office, UCSB. Admission requirements are the same for all undergraduates entering the University of California Santa Barbara.

GRADUATE: UCSB operates on the quarter system. Fall quarter admission only. Students applying for entrance to the program should have a demonstrated capability in Geography or other appropriate fields, have acquired a high grade point average (at least 3.25) during the junior/senior years, and should submit verbal and quantitative GRE scores upon formal application (combined verbal and quantitative scores should exceed 301). The Department has a number of teaching assistantships and research assistantships available, and students may also apply for University fellowships.

FACULTY:
Leila Carvalho, PhD, Meteorology, University of São Paulo, Brazil, Associate Professor — Regional and large-scale climate variability and modeling, global climate change, and scaling processes in geophysics
Susan Cassels, PhD, Demography, Princeton University, Assistant Professor — Epidemiology and mathematical modeling; social network analysis; infectious disease epidemiology
Oliver Chadwick, PhD, Soil and Water Science, University of Arizona, Professor — Pedology, geomorphology, quaternary geology, soil-water-vegetation interaction and landscape relationships, isotropic fractionations during soil evolution
Richard Church, PhD, Environmental Systems and Research, Johns Hopkins University, Professor — Planning and environmental location/allocation modeling, water resources planning, operations research methods
Keith Clarke: PhD, Analytical Cartography, University of Michigan, Professor — Cartography and GIS
Helen Couclelis, PhD, Urban Modeling, Cambridge University, Professor Emerita — Spatial theory and modeling, behavioral geography, planning, and philosophy of science
Timothy DeVries, PhD, Earth System Science, University of California, Irvine, Assistant Professor — Ocean circulation and biogeochemistry, carbon cycle, climate change, numerical modeling
Tommy Dickey, PhD, Geophysical Fluid Dynamics, Princeton University, Professor — Atmosphere-ocean interactions and upper ocean mixing, turbulence and internal waves, bio-optics, biogeochemistry, and biological-physical interactions
Catherine Gautier, PhD, Physics and Meteorology, University of Paris, Professor Emerita — Radiative transfer, earth radiation budget and cloud processes, large scale hydrology and surface/atmosphere interaction, global processes, and earth system science
Michael Goodchild, PhD, Geography, McMaster University, Professor Emeritus — Urban and economic geography, geographic information systems, and spatial analysis
Konstadinos Goulias, PhD, Civil Engineering, University of California, Davis, Professor — Transportation planning and modeling, travel behavior, behavioral dynamics, and microsimulation
Krzysztof Janowicz, PhD, Geoinformatics, University of Münster, Germany, Associate Professor — Geographic Information Science, Semantic Web, sensor web, mobile computing, geographic information retrieval, gazetteers, similarity and context
Charles Jones, PhD, Land, Air, and Water Resources, University of California, Davis, Associate Professor — Precipitation variability, extreme events, weather forecasts, predictability studies, regional modeling, monsoon systems, and climate change
Jennifer King, PhD, Earth System Science, University of California, Irvine, Associate Professor — Biogeochemistry, earth system science, global change, ecosystem ecology, plant-soil-atmosphere interactions
Werner Kuhn, Dr.sc.techn., Surveying Engineering, ETH Zurich, Professor — Geographic Information Science, usability, semantics of spatial information, ontology of the environment, linked data, semantic reference systems
Hugo Loaiciga, PhD, Civil Engineering, University of California, Davis, Professor — Planning, design, and analysis of water resource systems; theory and computational aspects of surface and groundwater hydrology

David Lopez-Carr, PhD, Geography, University of North Carolina, Chapel Hill, Professor — Population (migration, fertility), health, environmental change, deforestation, rural development, Latin America

Joe McFadden, PhD, Integrative Biology, University of California, Berkeley, Associate Professor — Land-use and land-cover change, biosphere-atmosphere interactions, Earth system science, sustainability science, urban ecology

Joel Michaelsen, PhD, Geography, University of California, Berkeley, Professor Emeritus — Climatology, meteorology, and statistics

Dan Montello, PhD, Psychology, Arizona State University, Professor — Spatial perception, cognition, and behavior; cognitive issues in cartography and GIS; spatial aspects of social behavior; environmental psychology and behavioral geography

Alan Murray, PhD, Geography, University of California at Santa Barbara, Professor — Location modeling; urban and regional planning; spatial optimization; sustainability

Nick Nidzieko, PhD, Environmental Fluid Mechanics, Stanford University, Assistant Professor — Coastal physical oceanography

Dar Roberts, PhD, Geological Sciences, University of Washington, Professor — Remote sensing of vegetation; geology, ecology, and ecophysiology

Dave Siegel, PhD, Ocean Physics, University of Southern California, Professor — Numerical simulation of small-scale thermocline motions, bio-optical oceanography, mixing and turbulence, the role of radiative processes in air-sea processes, kinematics and dynamics of oceanic particulates

Ray Smith, PhD, Physics, Stanford University, Professor Emeritus — Remote sensing of oceans, physical and biological oceanography; primary production and bio-optical modeling in aquatic environments, with emphasis on Antarctic ecosystems; marine and sea ice ecology of southern ocean; UV effects on phytoplankton; optical / biological / physical oceanography; marine resources; remote sensing of oceans; and earth systems science

Terry Smith, PhD, Geography and Environmental Engineering, Johns Hopkins University, Professor Emeritus — River geomorphology; Computational modeling; Individual and aggregate decision making; Artificial intelligence

Stuart Sweeney, PhD, City and Regional Planning, University of North Carolina, Chapel Hill, Professor — Urban and regional modeling and planning, human migration, local economic development/policy, and spatial point process models of economic activity

Waldo Tobler, PhD, Geography, University of Washington, Seattle, Professor Emeritus — Cartography, computational geography

Libe Washburn, PhD, Engineering Sciences, University of California, San Diego, Professor — Coastal circulation, mesoscale processes, air-sea interactions, and interdisciplinary oceanography

UNIVERSITY OF SOUTHERN CALIFORNIA

SPATIAL SCIENCES INSTITUTE
DATE FOUNDED: 2010
DEGREES OFFERED: B.S., GeoDesign; Minor, Spatial Studies; M.S., Geographic Information Science and Technology (online); M.S., Spatial Informatics; Graduate Certificate, Geographic Information Science and Technology (online); Graduate Certificate, Geospatial Intelligence (online); Graduate Certificate, Geospatial Leadership (online); Graduate Certificate, Spatial Analytics; Ph.D., Population, Health and Place
GRANTED 9/1/2014-08/31/15: 53 M.S. (GIST), 39 Graduate Certificates (GIST), 1 Ph.D. (Geography)
STUDENTS IN RESIDENCE: 34 B.S. (GeoDesign), 15 Minor (Spatial Studies), 4 M.S. (Spatial Informatics)
STUDENTS NOT IN RESIDENCE: 113 M.S., 53 Graduate Certificate, Geographic Information Science and Technology, 6 Graduate Certificate, Geospatial Intelligence
DIRECTOR: John P. Wilson
ASSOCIATE DIRECTOR: Susan Kamei
INSTITUTE ADMINISTRATIVE COORD: Melissa Salido

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Kendrick Watson, Spatial Sciences Institute, University of Southern California, 3616 Trousdale Parkway, AHF B55, Los Angeles, CA 90089-0374. Telephone: (213) 740-8298. Fax: (213) 740-9687. Web: http://spatial.usc.edu/.

PROGRAMS AND RESEARCH FACILITIES: The University of Southern California has recently embarked on an initiative to promote spatial thinking across the natural and social sciences, the humanities, and the professions. This initiative is led by the Spatial Sciences Institute and the spatial sciences are cast in terms of all the ways that geography (place, space, etc.) can be used to acquire, organize, represent, analyze, model, and visualize information. The Spatial Sciences Institute is housed in the Allan Hancock Foundation Building and includes faculty and staff offices, two conference rooms, an instructional computer laboratory, a collaborative classroom, and dedicated spaces for graduate and undergraduate student researchers. The Institute boasts an impressive array of computing technologies dedicated to research and education. The 200+ students in our online programs are provided with state-of-the-art geographic information technologies via dedicated virtual desktops and servers and residential students can access the same tools through a dedicated student research laboratory and a mobile laboratory that we use for teaching at the Wrigley Marine Science Center on Catalina Island. These platforms power a multitude of applications, including the entire suite of industry-standard GIS applications from Esri and GPS applications from Trimble, specialty software like the TerrSet geospatial monitoring and modeling software suite, the latest in virtualization technologies from VMWare, and an ever-growing suite of open sources tools and plugins. All of the aforementioned computer facilities are supported by Dornsife College Technology Services and a dedicated systems administrator housed in the Spatial Sciences Institute. The Spatial Sciences Institute is also an Esri Development Center and a founding member of the UNIGIS International Association, a worldwide consortium of 10+ institutions which collaborates on the development and delivery of online geographic information science academic programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Students already enrolled at the University of Southern California can major in GeoDesign and minor in Spatial Studies.

GRADUATE: An online M.S. degree is offered for students specializing in Geographic Information Science & Technology and Graduate Certificates are offered for students specializing in Geographic Information Science & Technology, Geospatial Leadership, and Geospatial Intelligence. These graduate programs draw on the experience and expertise of an active research faculty as well as the resources and opportunities afforded by a major research university located in a world-class metropolis. The minimum requirements for admission to the graduate programs are a B.A. or B.S. degree from an accredited institution and an overall grade point average of 3.0 or higher for all undergraduate work completed. Students are admitted to the GIST M.S. degree and three aforementioned Graduate Certificate programs all three semesters. Students interested in the M.S. degree in Spatial Informatics (SPIF) which is offered jointly by the Department of Computer Science and the Spatial Sciences Institute should apply through the Department of Computer Science. Students are admitted to the SPIF M.S. degree in fall and spring semesters. The Spatial Analytics Graduate Certificate serves students enrolled in a doctoral program at USC and the Population, Health and Place Ph.D. degree is an interdisciplinary program offered jointly by the Departments of Preventive Medicine and Sociology and the Spatial Sciences Institute. This program is administered by the Spatial Sciences Institute and students apply before 1 December each year for admission in the following fall semester.

FACULTY:

Yao-Yi Chiang, Ph.D., University of Southern California, 2010, Assistant Professor (Research) — geospatial data integration, digital map processing, graphics recognition, pattern recognition, image processing

Steven D. Fleming, Ph.D., University of Georgia, 2004, Professor of the Practice of Spatial Sciences — geospatial intelligence, remote sensing, physical geography, GIS, cartography, photogrammetry

Karen K. Kemp, Ph.D., University of California Santa Barbara, 1992, Professor of the Practice of Spatial Sciences — spatial analysis, environmental modeling, GIS for the humanities, GIS professional competency

Su Jin Lee, Ph.D., University of Southern California, 2012, Lecturer — GIS, remote sensing, human and environmental interaction, solar radiation modeling, terrain analysis, land use, land cover change

Travis Longcore, Ph.D., University of California Los Angeles, 1999, Assistant Professor of Architecture, Spatial Sciences and Biological Sciences — urban bioresource management, conservation planning, ecological light pollution, endangered species

Laura C. Loyola, Ph.D., University of Southern California, 2015, Lecturer — GIS, human and evolutionary biology, anthropology, remote sensing

Katsuhiko (Kirk) Oda, Ph.D., Texas A&M University, 2011, Lecturer — spatial thinking, GIS education, GIS, walkability, spatial cognition

Jason Post, M.S., Texas Tech University, 2014, Lecturer — aquatic habitat mapping, human-environment interactions, environmental justice, biogeography, GIS for fire, EMS

Darren Ruddell, Ph.D., Arizona State University, 2009, Assistant Professor (Teaching) and Director of Undergraduate Studies — geospatial technologies, climate and society, human-environment interactions, geodesign, urban sustainability

Elisabeth A. Sedano, Ph.D., University of Southern California, 2014, Lecturer — urban geography, web mapping, volunteered geographic information, outdoor advertising

Jennifer N. Swift, Ph.D., Bogazici University Istanbul, 1995, Associate Professor (Teaching) — GIS, web GIS, mobile GIS, data modeling, geodesign, online education

Robert O. Vos, Ph.D., University of Southern California, 1999, Assistant Professor (Teaching) — industrial ecology, GIS assessment of carbon footprinting, environmental politics and policy

Daniel N. Warshawsky, Ph.D., University of Southern California, Assistant Professor (Teaching) and Director of Graduate Studies — geography, urban studies, food studies, African studies, international development, nonprofit studies

John P. Wilson, Ph.D., University of Toronto, 1986, Professor, Department of Sociology and Director, Spatial Sciences Institute — geographic information science, geodesign, spatial analysis, environmental modeling, health

Wei Yang, Ph.D., University of Georgia, 2015, Lecturer — spatial analysis, programming, remote sensing, GIS, data mining

AFFILIATED FACULTY:

Jennifer Ailshire, Ph.D., University of Michigan, Assistant Professor (Davis School of Gerontology) — social determinants of health, health disparities, aging and the life course, social relationships, social demography, spatial methods, quantitative methods

George Ban-Weiss, Ph.D., University of California, Berkeley, 2008, Assistant Professor (Department of Civil and Environmental Engineering) — global and regional climate modeling, effects of atmospheric particles and land-use on climate and air quality

François Bar, Ph.D., University of California, Berkeley, 1990, Associate Professor (Annenberg School for Communication) — social and economic impacts of information technologies, telecommunication policy, user driven innovation, technology appropriation

Myles G. Cockburn, Ph.D., University of Otago, 1999, Professor (Department of Preventive Medicine) — health GIS, cancer epidemiology, environmental epidemiology, melanoma, prostate cancer

Elizabeth Currid-Halkett, Ph.D., Columbia University, 2006, Associate Professor (Price School of Public Policy) — city data, economic geography, economic development, cultural economy, social networks

Maged Dessouky, Ph.D., University of California, Berkeley, 1992, Professor and Director (Department of Industrial and Systems Engineering) — production and operations management, modeling of manufacturing processes and systems, operations research applications to industrial systems

Philip J. Ethington, Ph.D., Stanford University, 1989, Professor (History and Political Science) and Co-Director, Center for Transformative Scholarship — digital humanities, cartography, urban history, visual culture, immigration, race relations

Brian Finch, Ph.D., University of Texas at Austin, 2000, Professor (Research) (Sociology) — social demography, social epidemiology, social stratification and inequality, social statistics

Meredith Franklin, Ph.D., Harvard University, 2007, Assistant Professor (Department of Preventive Medicine) — spatial statistics, environmental statistics, atmospheric science

Thomas Garrison, Ph.D., Harvard University, 2007, Assistant Professor (Teaching) (Department of Anthropology) — GIS, remote sensing, Maya and Mesoamerican archaeology, landscape archaeology

Jennifer Hook, Ph.D., University of Washington, 2006, Associate Professor (Sociology) — family demography, gender, inequality, work-family, social policy, child welfare, comparative sociology

Matthew E. Kahn, Ph.D., University of Chicago, 1993, Professor (Economics) — environmental economics, economic development, sustainability, climate change, urban growth

Craig A. Knoblock, Ph.D., Carnegie Mellon University, 1991, Professor (Research) (Computer Science) and Director of Information Integration, Information Sciences Institute — data

extraction from the Web, information gathering, artificial intelligence

Ann Owens, Ph.D., Harvard University, 2012, Assistant Professor (Department of Sociology) — spatial analysis, quantitative analysis, urban sociology, social stratification, social policy

Nathan Perl-Rosenthal, Ph.D., Columbia University, 2011, Assistant Professor (History) — political and cultural history, eighteenth century North Atlantic, revolutions

Mansour Rahimi, Ph.D., Virginia Polytechnic Institute, 1982, Associate Professor (Department of Industrial and Systems Engineering) — engineering sustainable systems, industrial ecology, design for environment, eco-industrial development

Alexander Robinson, M.L.A., Harvard University, 2005, Assistant Professor (School of Architecture) — GIS mapping, landscape architecture design, landscape performance and infrastructure

Kelly T. Sanders, Ph.D., University of Texas at Austin, 2013, Assistant Professor (Department of Civil and Environmental Engineering — analytical modeling of urban and agricultural systems; sustainable energy, water, and waste management

Kelly Shannon, Ph.D., Katholieke Universiteit Leuven, Professor and Director (Master of Landscape Architecture Program) — interpretive mapping, projective cartography, urbanism, landscape

Emily Smith-Greenaway, Ph.D., Penn State University, 2014, Assistant Professor (Sociology) — demography, infant and child mortality, African studies, health services

Tatiana Tatarinova, Ph.D., University of Southern California, 2006, Associate Professor (Research Pediatrics) — biogeography, bioinformatics, computational genomics, statistical modeling, genome annotation

COLORADO

UNIVERSITY OF COLORADO, BOULDER

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1927
GRADUATE PROGRAM FOUNDED: 1930
DEGREES OFFERED: B.A., M.A., Ph.D.
GRANTED 12/2014-05/2015: 78 Bachelors (UC Boulder only), 7 Masters, 10 Ph.D.
STUDENTS IN RESIDENCE: 165 Majors, 17 Masters, 59 Ph.D.
NOT IN RESIDENCE: 14 Ph. D**.**
CHAIR: Emily Yeh
DEPARTMENT ADMINISTRATIVE ASST: Darla Shatto

FOR CATALOG AND UNDERGRADUATE APPLICATION WRITE TO: Admissions Office, Attn: Catalog Order, Campus Box 7, University of Colorado, Boulder, Colorado 80309 (enclose $10.00 check or money order for catalog). Financial Aid Office, Campus Box 106, University of Colorado Boulder, Colorado 80309.

For undergraduate and graduate program brochures graduate application write to: Department of Geography, Campus Box 260, University of Colorado, Boulder, Colorado 80309-0260. Telephone (303) 492-2631 (Undergraduate); (303) 492-8311 (Graduate). Fax (303) 492-7501. Internet: http://geography.colorado.edu

PROGRAMS AND RESEARCH FACILITIES: The basic purpose of the program is the training of scholars who will continue to produce knowledge, and of professionals with outstanding promise for success in the public and private sectors. The program offers advanced training, including formal course instruction, research guidance, and other professional experiences, in both physical and human geography. Research strengths are in arctic and alpine processes, snow and ice studies, geomorphology, climatology, biogeography, political ecology, indigeneous geography, natural resources, cultural, urban, population, political geography, cartography, and geographic information science. Although students' programs are individualized, each must demonstrate a command of the history and nature of the discipline and of a variety of modes of analysis and of geographic skills.

The department maintains teaching and research relationships with the Institutes of Behavioral Science (IBS) and of Arctic and Alpine Research (INSTAAR), the Cooperative Institute for Research in Environmental Sciences (CIRES), and the National Center for Atmospheric Research (NCAR). A host of other federal, state, and metropolitan agencies in the vicinity offer opportunities to the student. A department Internship Program is available for junior and senior students in Geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Semester plan. Write above addresses for information on admissions and financial aid.

GRADUATE: Semester plan. Prospective students should have interests coincident with those of the faculty and strong preparation in the physical or social sciences, but not necessarily in geography. Applicants without a degree in geography may be required to make up deficiencies. In addition to department approval, an applicant for admission as a regular degree student must (1) hold a baccalaureate degree from a college or university of recognized standing for M.A. admission, and a Master's degree for Ph.D. admission, or have comparable preparation to enter graduate study; (2) show promise of ability to pursue satisfactorily advanced study and research, and have at least a 3.25 undergraduate GPA on a 4.0 system. In addition, strong GRE verbal, quantitative, and analytical scores are required.
Financial aid may be available in the form of Teaching and Research Assistantships and University Fellowships. The application deadline is December 1.

FACULTY:

Waleed Abdalati, Ph.D. University of Colorado, 1996, Professor and Faculty Director of CIRES — glaciers, ice caps, ice sheets of the world

Suzanne P. Anderson, Ph.D. UC-Berkeley, 1995, Associate Professor — geomorphology, hydrology

Jennifer Balch, Ph.D, Yale, 2008, Assistant Professor — Biogeography, Forest Geography, Fire, The Amazon

Holly R. Barnard, Ph.D., Oregon State University, 2009, Assistant Professor — forest engineering and forest science

Peter D. Blanken, Ph.D., 1997, University of British Columbia, Associate Professor — micrometeorology, energy/ water/carbon exchange, forest meteorology, Arctic and subarctic, climatology

Joseph H. Bryan, Ph.D. UC Berkeley, 2007, Assistant Professor — development and indigenous issues in the Americas

Barbara P. Buttenfield, Ph.D., Washington, 1984, Professor — geographic information science, analytical cartography, information design

Carson Farmer, Ph.D. National University of Ireland, Maynooth, 2011, Assistant professor — GIScience, and spatial analysis with focus on spatial interactions, geospatial data streams, and spatial-temporal dynamics

Jennifer Fluri, Ph.D. Pennsylvania State, 2005, Associate Professor — Gender, Development, India

Mara Goldman, Ph.D. University of Wisconsin, 2006, Assistant Professor — human-environment relations, sub-Saharan Africa

Najeeb Jan, Ph.D. 2009 University of Michigan, Assistant Professor — West Asia, political, Islam

Stefan Leyk, Ph.D., University of Zurich, 2005, Associate Professor — GIS, pattern recognition, land cover change

Noah P. Molotch, Ph.D., University of Arizona, Tucson, 2004, Associate Professor — surface water and snow hydrology, ecohydrology, earth system science

Timothy Oakes, Ph.D., University of Washington, 1995, Professor — cultural, tourism, China

John V. O'Loughlin, Ph.D., Pennsylvania State, 1973, Professor — urban, political, Europe, international relations

John Pitlick, Ph.D., Colorado State, 1988, Professor — fluvial geomorphology, hydrology

Fernando Riosmena, Ph.D., University of Pennsylvania, 2005, Associate Professor — Migration, Demography, Mexico

Mark Serreze, Ph.D. University of Colorado, Boulder, 1989, Professor and Director of the NSIDC — cryosphere variability and climate change

Seth Spielman, Ph.D. SUNY Buffalo, 2008, Assistant Professor — urban, GIScience and Public Health

William Riebsame Travis, Ph.D., Clark, 1981, Associate Professor — natural resources management, environment and society

Thomas T. Veblen, Ph.D., UC, Berkeley, 1975, Professor — biogeography, environmental conservation, Latin America

Mark W. Williams, Ph.D., UC-Santa Barbara, 1990, Professor — snow chemistry, alpine biogeo-chemistry, hydrology

Emily Yeh, Ph.D., UC-Berkeley, 2003, Professor — political ecology of land use and resource conflicts in Tibeten areas of China, environmental politics of global change

ASSOCIATED FACULTY:

Max Boykoff, Adjunct Assistant Professor, CIRES
John Lenters, Adjunct Professor
Tania Schoennagel. Adjunct Assistant Professor-INSTAAR

EMERITI FACULTY:

Roger G. Barry — climatology (mountain and polar regions, synoptic, climate change), snow and ice

Nelson Caine — hydrology, geomorphology

Susan W. Beatty — plant ecology, biogeography, soils, disturbance effects on landscape

Kenneth A. Erickson — cultural, cartography, Russia, conservation

Kenneth E. Foote — American and European landscape history, computer techniques and Internet applications, learning and teaching geography in higher education

Andrei Rogers — population, migration

Konrad Steffen — remote sensing, climatology; Director, Cryospheric and Polar Processes Division, Cooperative Inst. for Research in Environmental Sciences

Richard E. Stevens — agricultural, Africa, cartography, air photo

UNIVERSITY OF COLORADO, COLORADO SPRINGS

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES
DATE FOUNDED: 1973
DEGREES OFFERED: B.A., M.A. in Applied Geography
GRANTED 8/20/2014-5/20/2015: 66 Bachelors; 4 M.A.
STUDENTS IN RESIDENCE: 238 Majors; 18 M.A.
CHAIR: Curt Holder

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Studies, University of Colorado, 1420 Austin Bluffs Parkway, Colorado Springs, CO 80918. Telephone: (719) 255-3016. Fax: (719) 255-4066. E-mail:cholder@uccs.edu**.**

PROGRAMS AND RESEARCH FACILITIES: The University of Colorado at Colorado Springs is a growing campus of approximately 11,200 students located along the Colorado Front Range. The Department of Geography and Environmental Studies offers a B.A. in Geography and Environmental Studies and an M. A. in Applied Geography. Areas of emphasis in the department are physical systems; human and cultural dynamics; environmental and sustainability studies; and geospatial techniques.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS:
UNDERGRADUATE: There are six required courses and four option tracks: Human and Cultural Dynamics, Physical Systems, Environmental and Sustainability Studies, and GIScience. A maximum of 54 credit hours in Geography and Environmental Studies classes may be taken by a major in Geography and Environmental Studies. All students must take a capstone course before graduation.

GRADUATE: The goal of the program is to provide graduate level education that enables students to address community concerns through applied geographic research. Graduates of this M.A. program will have an understanding of and appreciation for the interactions between the human and natural world; skills to synthesize, analyze, and evaluate diverse social and physical information; ability to conceptualize spatial relationships for problem solving; and communication skills to clearly present solutions or recommendations.

Admission of students to the M.A. in Applied Geography program requires applicants to hold a baccalaureate degree or a master's degree from an accredited college or university; have an undergraduate grade point average of 3.0 or better ("A" is equal to 4.0); complete the GRE General Test; provide 3 letters of recommendation; and provide two copies of official transcripts from all institutions attended.

Students may complete either a thesis option or a non-thesis option for the M.A. in Applied Geography. The department strongly encourages students to fulfill the thesis option that consists of 24 credits of coursework and 6 credits of thesis. All students must take GES 5770: History and Nature of Geography during their first fall semester and GES 5010: Seminar in Geographic Research during the subsequent spring semester.

For more information, please see our departmental web page at http://www.uccs.edu/geography/. Follow the MA Program links. Also, you may contact David Havlick, Graduate Director at (719) 255-4906 or dhavlick@uccs.edu.

FACULTY:

Diep Dao, Ph.D., University of North Carolina – Charlotte, 2013, Assistant Professor — Geographic Information Science, Spatial analysis and modeling, urban regional analysis, GPS

Cerian Gibbes, Ph.D., University of Florida, 2011, Assistant Professor — Human-environment, remote sensing, climate/land interactions, socio-ecological implications of conservation strategies

John Harner, Ph.D., Arizona State University, 1996, Professor and Chair — cultural, urban, GIS, Mexico

David Havlick, Ph.D., University of North Carolina, 2006, Associate Professor — environmental politics, nature-society, public lands

Curt. Holder, Ph.D., Clark, 2000, Professor — ecohydrology, human-environment interactions, Latin America

Thomas P. Huber, Ph.D., University of Colorado, l980, Professor — geomorphology, remote sensing, Colorado/mountain environments

Steven Jennings, Ph.D., University of California, Davis, 1989, Associate Professor — biogeography, geography education, mountain environments

Emily Skop, Ph.D., Arizona State University, 2002, Professor — urban, population, ethnic

Rebecca Theobald, Ph.D., University of Colorado, 2007, Assistant Research Professor — urban governance and public services, geography education, community geography

Brandon Vogt, Ph.D., Arizona State University, 2007, Associate Professor — geomorphology, GIS, rock weathering, geovisualization

Eric Billmeyer, M.A., University of Colorado, 2004, Senior Instructor — fluvial geomorphology, restoration, sedimentology, geospatial tools

George Bolling, M.A., University of Northern Colorado, 1980, Senior Instructor — geomorphology, glaciations

Carole J. Huber, M.A., University of Colorado, 1992, Senior Instructor — world regional, sustainability, sense of place

Michael P. Larkin, M.S., University of Colorado at Boulder, 2000, Senior Instructor — cultural geography, human geography

EMERITAE:

Eve Gruntfest, Ph.D., University of Colorado, l982, Professor Emerita — natural hazards, weather and society integrated studies

Robert P. Larkin, Ph.D., The Pennsylvania State University, l973, Professor Emeritus — population, geographic education

UNIVERSITY OF COLORADO, DENVER

DEPARTMENT OF GEOGRAPHY and ENVIRONMENTAL SCIENCES
DATE FOUNDED: 1975
DEGREES OFFERED: B.A. in Geography, M.S. in Environmental Sciences, M.A. in Applied Geography and Geo-Spatial Science
GRANTED 9/1/14–8/31/15: B.A. in Geography, 14 M.S. in E.S.
STUDENTS IN RESIDENCE: 184 Majors, 81 Masters
CHAIR: Deborah Thomas
DEPARTMENT PROGRAM ASSISTANT: Sue Eddleman
DEPARTMENT ADMINISTRATIVE ASSITANT: Samantha Maslak

FOR CATALOG AND UNDERGRADUATE APPLICATION: Admissions, University of Colorado Denver, http://www.ucdenver.edu/apply/.

For program brochures and other department information including admission to the graduate program contact: Department of Geography and Environmental Sciences, University of Colorado Denver, Downtown Denver Campus, Box 172, PO Box 173364, Denver, CO, 80217-3364. Telephone: 303-556-2276. Fax: 303-556-6197. Internet: http://clas.ucdenver.edu/ges

PROGRAMS AND RESEARCH FACILITIES: CU Denver is a dynamic university consisting of 13 schools and colleges and 140 programs spread over two campuses. Located in Downtown Denver, the Department of Geography and Environmental Sciences offers a BA in Geography, an MS in Environmental Science, and an MA in Applied Geography and Geo-Spatial Science. The department also offers a Certificate in GISci, a Certificate in Sustainable Urban Agriculture, and a Certificate in Environmental Science Education. Department research strengths are in both human and physical geography, though the faculty as a whole coalesces around the study of human-environment interaction emphasizing historic and contemporary climate change, landscape transformation, the conservation and management of cultural and natural resources, political ecology, environmental history, natural hazards and disaster management, urban sustainability, and environmental health.

The department forms the core of GIS activity on campus and is a key player in the Facility for Advanced Spatial Technology (FAST) lab, which is a multidisciplinary laboratory providing state-of-the-art geo-spatial science technology for teaching. The lab has site licenses for the most advanced GIS, image processing and database management software available in the industry. In addition, the department has a new research-dedicated geo-spatial science laboratory and a community engagement studio space. Other department research facilities include: the Five Fridges Farm Field Research Station, a 13 acre urban farm near downtown used to support the department's program in urban agriculture; an environmental hydrology laboratory; and a climate science laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester plan. For admissions information, please see: http://www.ucdenver.edu/apply/ . For financial aid, please see: http://www.ucdenver.edu/aid/

FACULTY:

Casey Allen, PhD., Arizona State, 2008, Associate Professor — biogeomorphology, human-environment interaction, geography and science education, Latin America and the Caribbean

Peter Anthamatten, Ph.D., Minnesota, 2007, Associate Professor — medical geography, spatial analysis, cartography, GIS, nutrition, geographic education

Christy Briles, P.D., University of Oregon, 2008, Assistant Professor — paleoecology, biogeography, climate change, palynology

Frederick B. Chambers, Ph.D., Arizona State, 1990, Associate Professor — glacier-climate interrelationships, boundary layer climatology

Yi-Chia Chen, Ph.D., Louisiana State University, Instructor -- political/cultural ecology; representation of heritage landscapes; geography of heritage tourism; construction of place identities

Anne Chin, Ph.D., Arizona State, 1994, Professor — fluvial geomorphology, hydrology, environmental geomorphology

Matthew Cross, M.S., Instructor — remote sensing, GIS, climatology

Rudi Hartmann, Ph.D., Munich, 1983, Associate Clinical Teaching Track Professor — world regional geography, Europe, China, tourism planning, geographic education

Pamela Jansma, Ph.D., Northwestern, 1988, Professor and Dean — geosciences, Global Positioning System, active tectonics of the Caribbean region

Daniel Liptzin, Ph.D., Colorado Boulder, 2007 — terrestrial biogeochemistry, coupled nutrient cycles, ecosystem responses to environmental change

Rafael Moreno-Sanchez, Ph.D., Colorado State, 1992, Associate Professor — land use planning, natural resources management, GIS modeling, internet mapping, Mexico

Brian Page, Ph.D., California-Berkeley, 1993, Associate Professor — political economy of natural resource development, historical geography, cultural landscape studies, urban geography

Gregory Simon, Ph.D., Washington, 2007, Associate Professor — environmental governance, political ecology, science studies, political economy of development, environmental history, India, US West

Deborah S.K. Thomas, Ph.D., South Carolina, 1999, Associate Professor — environmental hazards and disasters, health geography, GIS, environmental health

Amanda Weaver, Ph.D. University of Denver, 2014, Sr. Instructor — urban geography, GIS, geographic education

Bryan Wee (Wee Shao-Chang, Bryan; Wee Shao-Zhang, Bryan) Ph.D., Purdue, 2007, Associate Professor — environmental education, sustainability, cultural geography

John Wyckoff, Ph.D., Utah, 1980, Associate Professor — landscape ecology/biogeography, environmental remote sensing, GIS

EMERITI FACULTY:

Wes LeMasurier, Ph.D., Stanford, 1965 — igneous petrology, volcanology, volcanic geology of Antarctica

Martin Lockley, Ph.D., Birmingham, 1977 — paleontology, fossil footprints, evolution of consciousness

UNIVERSITY OF DENVER

DEPARTMENT OF GEOGRAPHY & THE ENVIRONMENT
DATE FOUNDED: 1945
GRADUATE PROGRAM FOUNDED: 1947
DEGREES OFFERED: B.A., M.A., Ph.D. in Geography; M.S. in GISc (on-campus and on-line); and B.A., B.S. in Environmental Science
GRANTED 9/1/14-8/31/15: 21 Bachelors (Geography), 21 Bachelors (Environmental Science), 26 Masters, 2 Ph.D.
GEOGRAPHY STUDENTS IN RESIDENCE: 66 Majors, 14 Masters, 9 Ph.D.
NOT IN RESIDENCE: 38 Masters
ENVIRONMENTAL SCIENCE STUDENTS IN RESIDENCE: 104 Majors
CHAIR: Andrew R. Goetz
DEPARTMENT ASSISTANT TO THE CHAIR: Nicole Chauvet

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, University of Denver, 2050 E. Iliff Ave., Denver, Colorado 80208. Telephone (303) 871-2513. Fax (303) 871-2201. Internet: www.du.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The University of Denver is the oldest independent university in the Rocky Mountain region, and has a total enrollment of over 12,000 students. Its location within a large metropolitan area in close proximity to the Rocky Mountains provides an ideal laboratory for physical and human geographers alike. At the undergraduate level, the Department offers a Geography major and minor, an Environmental Science major and minor, and minors in Geology, Geographic Information Science, Sustainability, and Tourism. At the graduate level, the Department offers both the Master's and Doctoral degrees in Geography, with particular strength in the areas of biogeography, climatology, economic geography, geographic information science, geomorphology, global change, human environment interaction, Latin America, population, Quaternary studies, transportation geography, and urban geography. The Department also offers on-campus and on-line Master of Science degrees in Geographic Information Science. The applied aspects of each area are emphasized to enhance vocational opportunities for graduates. A paid internship program is available with municipal, state, and federal agencies and private firms located in the Denver area for physical geography, human geography, and geographic information science students at both the graduate and undergraduate levels. Facilities at the University and within the Department provide a wide variety of teaching and research opportunities. Departmental lab facilities include a 24-seat GIS instructional lab, a 14-seat Advanced GIS Lab, a Palynology Lab, Soils Lab, Remote Sensing Lab, Climatology Lab, and a Special Projects Lab. The Department maintains an inventory of mapping grade GPS equipment and GPS processing software. We currently maintain 10 Trimble Juno SB handheld GPS units and several Garmin handheld GPS devices, as well as an ASD Spectroradiometer. The Department also maintains a community GPS base station serving the Front Range of Colorado. The University of Denver has an ESRI University Site License with most ESRI software products available. Students will find ArcInfo and Extensions installed in the GIS laboratories. We also maintain current licenses for ERDAS Imagine, ENVI, and other GIS and image processing software. In addition, the Department has an extensive map library and equipment for its geomorphology/soils/pollen laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: The program of study includes: 1) foundation courses, 2) a core of courses intended to provide each student with knowledge fundamental to geographers, and 3) an array of classes in the areas of human, physical, and GIScience, from which the students choose. Students can also register for our block of field courses in the Fall quarter. Courses taught in the field span geographic scales from the Denver metropolitan area to our field station on Mt. Evans, to developing landscapes in Guatemala or to examine relationships between humans and the environment in Europe, Nicaragua, and in the Sonora and Baja regions of Mexico. The university also provides an all-expense paid study abroad opportunity for all undergraduate students. Admission requires submission of high school and/or college transcripts, SAT or ACT scores, a personal essay, and recommendation(s) from previous teachers or counselors. The University has available a variety of financial aid opportunities for which most students can qualify.

GRADUATE: At the Doctoral level, a research-based dissertation is required, together with appropriate course work, tools, and comprehensive exam. Topical areas of focus include biogeography, climatology, economic geography, geographic information science, geomorphology, global change, human-environment interaction, Latin America, population, Quaternary studies, transportation, and urban geography. At the Master's level, the MA in Geography includes subfields within: (1) Physical Geography, (2) Human Geography, (3) Human-Environment Interaction, or (4) Geographic Information Science. The department also offers both an on-campus and on-line MS degree program in geographic information science (MS-GISc). Geospatial technology areas include: automated cartography; geographic information systems; global positioning systems; image processing; remote sensing; air photo interpretation; and spatial analysis methods and modeling. In all cases, the Department prides itself in the ability to tailor individual programs to complement the student's interests within a basic framework of practical requirements. Because this is a relatively small department, the student has the opportunity to work closely with his/her advisor. Admission requires submission of appropriate academic transcripts, Graduate Record Examination scores, three letters of recommendation, and applicant's statement of interest. The Department has available a number of graduate teaching and research assistantships. The assistantships carry a stipend and full tuition scholarship plus health insurance coverage. No out-of-state fees are charged to the student.

FACULTY:
E. Eric Boschmann, Ph.D., Ohio State University, 2008, Associate Professor — urban, economic, commuting, mixed-methods, GIS
J. Michael Daniels, Ph.D., University of Wisconsin, 2002, Associate Professor — geomorphology, environmental change, soils, hydrology
Andrew R. Goetz, Ph.D., Ohio State University, 1987, Professor and Chair — transportation, urban geography/planning, economic geography
Hillary Hamann, Ph.D., University of Colorado-Boulder, 2002, Senior Lecturer — hydrology, watershed biogeochemistry, physical geography, water resources, conservation
Helen Hazen, Ph.D., University of Minnesota-Twin Cities, 2006, Lecturer — health and environment, environmental conservation
Steven R. Hick, MA, University of Missouri, 1983, Lecturer and Director, MS-GISc Program — geographic information science, project management, cartography, criminology
Michael J. Keables, Ph.D., University of Wisconsin-Madison, 1986, Associate Professor and Interim Dean, Daniel Felix Ritchie School of Engineering and Computer Science — climatology, water resources, climate variability
Michael W. Kerwin, Ph.D., University of Colorado, Associate Professor and Director, Environmental Science Program — Quaternary geology, dendroclimatology

Kristopher Kuzera, Ph.D., San Diego State University, University of California, Santa Barbara, 2011, Lecturer and Internship Program Director — GIScience, Remote Sensing, Statistical Analysis

Jing Li, Ph.D., George Mason University, 2012, Assistant Professor — geovisualization, spatiotemporal data modeling, high performance geocomputation, web-based GIS

Rebecca L. Powell, Ph.D., University of California-Santa Barbara, 2006, Associate Professor — human-environment interaction, remote sensing, statistics, land use/land cover, geographic information science (GISc)

Donald G. Sullivan, Ph.D., University of California-Berkeley, 1989, Associate Professor — Quaternary studies, biogeography, environmental change

Paul C. Sutton, Ph.D., University of California-Santa Barbara, 1999, Professor — geographic information science (GISc), ecological economics, human-environment interactions, population geography

Matthew J. Taylor, Ph.D., Arizona State University, 2003, Associate Professor and Director of Graduate Studies — Latin America, political ecology, development

Erika Trigoso Rubio, Ph.D., University of Oxford, 2010, Lecturer — vulnerability and adaptation to climate change, geographic information science, Latin America

ADJUNCT FACULTY:

Michelle Moran-Taylor, Ph.D., Anthropology, Arizona State University, 2003, Adjunct Professor — cultural geography, cultural ecology, human migration

Martha Narey, Ph.D., University of Denver, 1999, Adjunct Professor — dendroclimatology, drought climatology, climate history, paleoenvironments, vegetation change, rural land use, American Indians

Sean Tierney, Ph.D., University of Denver, 2009, Adjunct Profsesor — economic geography, energy, transportation

EMERITUS FACULTY:

David B. Longbrake, Ph.D., University of Iowa, 1972, Professor Emeritus — urban geography, urban and regional planning, quantitative methods, global position systems, geographic information systems

Terrence J. Toy, Ph.D., University of Denver, 1973, Professor Emeritus — geomorphology, hillslopes, reclamation of disturbed lands, erosion

UNIVERSITY OF NORTHERN COLORADO

DEPARTMENT OF GEOGRAPHY & GIS
DATE FOUNDED: 1968
DEGREES OFFERED: B.A.; Graduate Certificate, Geography Education for Teachers
GRANTED 9/1/14-8/31/15: 11 Bachelors
MAJORS: 35
DEPARTMENT CHAIR: James M. Dunn
ADMINISTRATIVE ASST: Brooks Pardew

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. James Dunn, Department of Geography & GIS, University of Northern Colorado, Greeley, Colorado 80639. Telephone (970) 351-2715. Fax (970) 351-2890. E-mail: james.dunn@unco.edu. Internet: http://www.unco.edu/geography.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: *Bachelor of Arts.* The Program offers a major in Geography with the following choices of study emphasis: (a) Global and Area Studies; (b) Geographic Information Sciences, and (c) Secondary Teaching. An Internship Program is available for students. The program maintains a GIS lab supplied with a range of statistical, mapping, remote sensing, and GIS applications for student use. The emphasis area in Secondary Teaching meets all requirements for licensure to teach secondary social studies in Colorado.

GRADUATE: The Department offers a Graduate Certificate in Geography Education for teachers, consisting of 12 credit hours of graduate courses in Geography. There is also a post-baccalaureate program leading to licensure to teach social studies for graduate students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates year-round on the semester system (two semesters equal one academic year).

UNDERGRADUATE:
For information on new undergraduate and transfer admissions, please see http://www.unco.edu/admissions/request/.

GRADUATE: For information on admission to the Graduate Certificate in Geography Education or the Secondary Teaching Post-Baccalaureate programs, please see http://www.unco.edu/grad/admissions/index.html.

FACULTY:

Karen Barton, Ph.D., University of Arizona, 2000, Associate Professor — resource management, hydraulic fracturing, sustainable food systems

Charles O. Collins, Ph.D., University of Kansas, 1973, Professor — Mexico and Caribbean, population, cultural, vernacular landscapes

David M. Diggs, Ph.D., University of Colorado, Boulder, 1990, Professor — GIS, cartography

James P. Doerner, Ph.D., University of Denver, 1994, Professor — biogeography, paleoenvironmental change, geomorphology, Asia

James M. Dunn, Ph.D., University of Colorado, Boulder, 1993, Professor — geography education, environmental systems, Canada

Katherine Johnson, Ph.D., University of California, Berkeley, 2002, Associate Professor — political, urban, planning

Phil Klein, Ph.D., University of Colorado, Boulder, 1993, Professor — international geography education, cultural, Europe

Jessica Salo, Ph.D., Colorado State University, 2014, Instructor — GIS, remote sensing, human-environment interaction, landscape ecology

Timothy Vowles, Ph.D., University of Denver, 2000, Adjunct Instructor — transportation, economic, New Zealand

EMERITI FACULTY:

David B. Cole, Ph.D., University of Colorado, Boulder
John L. Dietz, Ph.D., Syracuse University
Kevin C. Kearns, Ph.D., St. Louis University
Richard K. Ormrod, Ph.D., Pennsylvania State University
Charles G. Schmidt, Ph.D., University of Washington
Steven L. Scott, D.A., University of Northern Colorado

CONNECTICUT

CENTRAL CONNECTICUT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1969
GRADUATE PROGRAM FOUNDED: 1964
DEGREES OFFERED: B.A., B.S., M.S., M.S. in Sustainability
GRANTED 9/1/14-8/31/15: 76 Bachelors, 6 Masters
STUDENTS IN RESIDENCE: 197 Majors, 65 Masters
NOT IN RESIDENCE: 37 Masters
CHAIR: Richard W. Benfield
DEPARTMENT SECRETARY: Diane Cannata

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Richard Benfield, Chair, Department of Geography, Central Connecticut State University, 1615 Stanley St., New Britain, Connecticut 06050. Tel (860) 832-2785. Fax (860) 832-3140. E-mail: benfieldr@ccsu.edu. Internet: www.geography.ccsu.edu.

PROGRAMS AND RESEARCH FACILITIES:
UNDERGRADUATE: Major in geography with a specialization in urban and regional planning. Also, major in geography with one of the following tracks: (1) physical/environmental, (2) geographic education, (3) geographic information science, (4) tourism, (5) general/regional, (6) planning, and (7) hospitality/tourism. Many paid internships available. Coop education program also available.

GRADUATE: Custom-designed programs to fit the needs of individual students. See undergraduate programs for areas of specialization. Please call for information about graduate assistantships. Facilities: Fully-equipped GIS, cartography and air photo interpretation labs. Our network includes 36 computers, plus digitizers, scanners, black/white, color laser printers and one plotter. We have 25,000 sheets in our U.S. Federal Government Map Depository collection. Scholarship: Timothy J. Rickard Scholarships for Geography Majors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Undergraduate GPA of 2.7 or higher required for admission to graduate program; GRE not required. TOEFL score of 550 or higher required for those whose native language is not English. A limited number of Graduate assistantships are available. Call or write for further information.

FULL-TIME FACULTY:
Richard W. Benfield, Ph.D., Oklahoma, 1998, Professor and Chairperson —Tourism, recreation, Europe, Russia & N.I.S
Charles Button, Ph.D., Cincinnati, 2003, Professor — Water resources, Environmental and Physical Geography
Timothy J. Garceau, Ph.D., Connecticut, 2015, Assistant Professor — Urban & Regional Planning, Transportation Planning, Urban Geography, Human Geography, Conservation, Historic Preservation
Peter A. Kwaku Kyem, Ph.D., Clark University 1997, Professor — Resource/Environmental/Physical Geography, GIS, Map reading and Sub-Saharan Africa
Yunliang Meng, Ph.D. Western Ontario, 2010, Assistant Professor — GIS
Cynthia Pope, Ph.D., Arizona, 2002, Professor — Medical geography, Gender, Latin America
William R. Price, Ph.D., Kansas, 2014, Assistant Professor — Tourism, Oceania
Xiaoping Shen, Ph.D., Ottawa, 1995, Professor — Economic, China, GIS, Cartography
Brian J. Sommers, Ph.D., Arizona, 1994, Professor and Assistant to the Dean, School of Arts and Sciences — urban geography and planning, historic preservation, geography of wine
Hung Chih Yu,, Ph.D., Pennsylvania, 2008, Associate Professor — Tourism, hospitality management

EMERITUS FACULTY:
Timothy J. Rickard, Ph.D., Kansas, 1974, Professor Emeritus — rural planning, Europe
James Snaden, Ph.D. Michigan, 1974, Professor Emeritus — human geography, Latin America, cartography
John E. Harmon, Ph.D., Boston, 1979, Professor Emeritus — GIS, transportation planning, field methods

PART-TIME FACULTY:
Michael Bonnardi, M.A., Sacred Heart University, 1994, Lecturer — tourism and hospitality
William A. DeGrazia, M.S., Western Connecticut, 1974, Lecturer — introductory courses, teaching method
James Gambardella, M.A., Vermont, 1984, Lecturer — air photo interpretation, soils and vegetation
Marwin Gonzalez, M.S., Central CT State University, 2012 — GIS
Angelina Kendra, Ph.D., Virginia Tech University, 2002, Lecturer — recreation and tourism
Donald Poland, Ph.D.., University College London, M.S., Central Connecticut, 2000 — Geography, comparative urbanism
Thomas E. Sherer, Jr., M.S., Central Connecticut, 1990, Lecturer — map reading and cartography

UNIVERSITY OF CONNECTICUT

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1976
DEGREES OFFERED: B.A., B.S., M.A., Ph.D., Graduate Certificate in GIS
GRANTED 09/01/14-08/31/15: 10 Bachelors, 3 Masters, 4 Ph.D.
STUDENTS IN RESIDENCE: 30 Majors, 4 M.A., 24 Ph.D.
CHAIR: Ken Foote

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dean Hanink, Graduate Coordinator, Department of Geography, Unit 4148, 215 Glenbrook Road, Austin Building Room 422, University of Connecticut, Storrs, Connecticut 06269-4148. Telephone (860) 486-3656. Fax (860) 486-1348.
E-mail: dean.hanink@uconn.edu. Internet: www.geography.uconn.edu

PROGRAMS AND RESEARCH FACILITIES: The Department offers programs leading to Ph.D., M.A., or B.A/B.S. degrees in Geography. It also offers both an online and on-campus graduate certificate in GIS. The Department offers a broad program in geography with long-standing strengths in GIScience, spatial analysis and statistics, location theory and economic geography. Current emphases of our program are sustainability, environment and planning; GIS and spatial analysis; society, space, and social change; and climate and environmental change. With respect to the MA and BA/BS degrees, the Department has created strong and flexible programs with a consistent emphasis on the development of marketable, professional skills with a focus on spatial analysis, quantitative and qualitative methodologies, and geographic information systems. The department has strong ties to other departments and programs across the university including, among others, the Center for Environmental Studies and Engineering; Center for Health, Intervention and Prevention, Department of Civil and Environmental Engineering in the College of Engineering;

Department of Natural Resources and the Environment in the College of Agriculture, Health and Natural Resources; and the Connecticut State Data Center.

As a department in a major research university, the support facilities are excellent. A windows-based instructional lab is used for spatial analysis, GIS, and cartography. Graduate students have 24/7 access to a research computer lab, as well as access to a physical geography lab, survey and field equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. B.A. requires eight geography courses plus four related electives; the B.S. has a six-course core with three electives. The Master of Arts degree has options for a thesis (24 credits of coursework) or coursework and a research paper (30 credits). The graduate certificate program (online and on-campus) consists of two core courses and two electives. The Ph.D. program normally involves a four year course of study with a minimum 15 credits of content coursework beyond the Master's degree, plus dissertation. Submission of GREs is strongly recommended for admission and required for applications for teaching and research assistantships. Applications for admission to the departments graduate and certificate programs are accepted any time during the year. However, applications for financial aid (teaching and research assistantships) are reviewed only once annually for applications received by December 15th each year.

FACULTY:

Carol Atkinson-Palombo, Ph.D., Arizona State, 2007, Associate Professor — urban economic development, urban transportation, land use change, GIS-based modeling

William H. Berentsen, Ph.D., Ohio State, 1976, Professor — regional development and change, landscapes, Europe and U.S.A.

Mark Boyer, Ph.d., Maryland, 1988. Board of Trustees Distinguished Professor — globalization. global-local linkages, environmental policy, climate change, political economy

Amy Burnicki, Ph.D., Michigan, 2008, Assistant Professor-in-Residence in Geography and Department of Civil and Environmental Engineering — GIScience, quantitative methods, land change science, spatial analysis and modeling

Tim Byrne, Ph.D., Univ. of Calif., Santa Cruz, 1981, Professor in Geography, Center for Integrative Geosciences, and Marine Sciences — marine geology and tectonics, convergent margin geology, structural geology

Thomas J. Cooke, Ph.D., Indiana, 1993, Professor — urban, economic, population, quantitative methods

Robert G. Cromley, Ph.D., Ohio State, 1978, Professor — location theory, GIScience, computer assisted cartography

Heidi Dierssen, Ph.D., Univ. of Calif., Santa Barbara, 2000, Professor, Avery Point Campus — Coastal optics and remote sensing to address questions related to biological and physical processes in the ocean

Ken Foote, Ph.D., Chicago, 1982, Professor and Head — GIScience and visualization, interactive and multimedia cartography, landscape history, geography in higher education

Julie Fosdick, Ph.D., Stanford University, 2012, Assistant Professor in Geography and Center for Integrative Geosciences — sedimentary geology, thermochronology, and tectonics

Debarchana (Debs) Ghosh, Ph.D., Minnesota, 2009, Assistant Professor — Health Geography, HIV/AIDS, drug use, GIScience, social network analysis, mixed methods

Dean M. Hanink, Ph.D., Georgia, 1980, Professor — economic, regional development

John-Andrew Jolly-Ballantine, Ph.D., Univ. of Calif., Santa Barbara, 2008, Associate Professor in Residence — geography education, sustainability, geomorphology, remote sensing, hydrology

Weidong Li, Ph.D., China Agricultural University, 1995, Research Scientist — Geospatial statistics and geo-computation, environmental informatics, GIScience, soil and landscape mapping, land use change and remote sensing

Richard Mrozinski, M.A., Connecticut, 1996, Instructor — GIScience

William Ouimet, Ph.D., Massachusetts Institute of Technology, 2007, Assistant Professor in in Geography and Center for Integrative Geosciences — geomorphology, earth surface processes, human-environment interactions and landscape evolution

Lisa Park Boush, Ph.D., Arizona, 1995, Professor and Director, Center for Integrative Geosciences — climate change, biodiversity and sustainability

Anji Seth, Ph.D., Michigan, 1995, Associate Professor — climate change, society and climate

Scott Stephenson, Ph.D., UCLA, 2014, Assistant Professor — GIS, environmental change, climate vulnerability, transportation, natural resources

Nathaniel S. Trumbull, Ph.D., Washington, 2006, Associate Professor — urban management, water resources planning and management, urban and community development, regional planning, geographic information systems, information technology and education

Daniel Weiner, Ph.D., Clark, 1986, Professor and Vice President for Global Affairs — development geography; political ecology; GIS and society

Chuanrong Zhang, Ph.D., Wisconsin, Milwaukee, 2004, Associate Professor — GIScience, remote sensing, spatial analysis

ASSOCIATED FACULTY:

Daniel L. Civco, Ph.D., Connecticut, 1987, Professor of Geomatics, Department of Natural Resources and the Environment and Director, Center for Landuse Education and Research (CLEAR) — remote sensing, image processing, GIS, land use change, natural resources management

Norman Garrick, Ph.D. Purdue, 1986. Associate Professor of Civil and Environmental Engineering — sustainable transportation and urban planning

Phoebe Godfrey, Ph.D. SUNY Binghamton, Assistant Professor in Residence of Sociology — social justice and ecological and social sustainability

EMERITUS AND RETIRED FACULTY:

Peter L. Halvorson, Ph.D., Cincinnati, 1970, Professor Emeritus

Thomas R. Lewis, Ph.D., Rutgers, 1978

Ross MacKinnon, Ph.D., Northwestern, 1968, Professor Emeritus

Jeffrey P. Osleeb, Ph.D., SUNY Buffalo, 1974, Professor Emeritus

DELAWARE

UNIVERSITY OF DELAWARE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1966
GRADUATE PROGRAM FOUNDED: 1971
DEGREES OFFERED: B.A. (Geography, Geography Education, Environmental Studies), B.S. (Meteorology and Climatology, Environmental Science), M.A. and M.S. (Geography), Ph.D. (Climatology, Geography), Graduate Geographic Information Science Certificate
GRANTED 9/1/14-8/31/15: 79 Bachelors, 13 Masters, 3 Ph.D.
STUDENTS IN RESIDENCE: 270 Majors (27 Geography, 152 Environmental Science, 80 Environmental Studies, 11 Meteorology and Climatology), 13 Masters, 15 Ph.D., 8 GIS Certificate
NOT IN RESIDENCE: 2 Masters, 1 Ph.D.
CHAIR: Delphis Levia
ASSISTANT TO THE CHAIR: Kaci Middlemas

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Delphis Levia, Chair, Department of Geography, University of Delaware, Newark, DE 19716. Telephone: (302) 831-2294. Fax (302) 831-6654 (Faxes should be directed to Delphis Levia).
E-mail: info@geog.udel.edu. http://www.ceoe.udel.edu/schools-departments/department-of-geography.

GRADUATE PROGRAMS AND RESEARCH FACILITIES: Delaware's graduate programs provide opportunities to interact closely with faculty whose research interests encompass one or more of three broad areas: climatology, ecohydrology, and human-environment interactions.

A newly crafted Ph.D. degree in Climatology, beginning Fall 2014, builds on the longstanding climatology tradition in the department with additional faculty and resources within the College of Earth, Ocean and Environment. The climatology faculty research focus on land/ocean/ice– atmosphere interactions, and climate dynamics and variability. The faculty employ a wide range of models, from cloud scale to climate scale, and use environmental observations including surface, upper air, and satellite data, along with state-of-the-art methods of analysis and modeling to study our climate system.

The Geography Ph.D. degree serves as the umbrella degree for advanced geographic research in both physical and human geography. The physical geography research includes cryospheric studies (sea ice, glaciers, snowcover) and ecohydrology research (vegetation change, biogeochemical changes in forests, linkages between hydrology and ecosystem processes). A *new* human geography focused PhD encourages research in human-environmental relations, political ecology and in fieldwork at home and abroad. Interdisciplinary work is encouraged from across the university and in collaborations with local, national, and international partners. The department is flexible, focusing on individual interests and encouraging multidisciplinary work.

Delaware's masters programs in Geography provide individualized coursework and professional training, with an emphasis on developing research and analytic abilities, as well as professional communication skills. A thesis is required of all masters students.

Graduate GIS Certificate program is designed to provide the theoretical underpinnings of GIS to make informed use of geographic technologies and to gain the technical skills needed to construct and solve problems in the physical and social realms. The program requires one core graduate GIS course followed by 9 additional graduate GIS credit hours.

Topical Emphases:
Climatology emphasizes the study of interactions between the earth and atmosphere and their role in environmental problems. Faculty research interests fall within all the traditional subareas of climatology, including climate dynamics, hydroclimatology, physical climatology, microclimatology, paleoclimatology, and synoptic weather-analysis climatology. Human impacts on energy and moisture exchanges, and climatic influences on socioeconomic activities are of increasing importance and allow many opportunities for interdisciplinary and cross-disciplinary research.

Ecohydrology encompasses research where primary processes in the soil, vegetative layer, or other aspects of the near-surface landscape. Such interests include the effects of forest cover on hydrological and biogeochemical flows and the linkages between hydrology and ecosystem processes.

Cryosphere studies feature heavily in both climate and land-surface research, including snowcover and snowfall studies, glacier dynamics and variations, and sea-ice dynamics and development of sea-ice datasets.

Human geography faculty are examining the adaptations to a changing world focusing on topics of environment and society, sustainability and justice, and urbanization and development. Current research project include the study of Guatemalan immigration to Delaware and its impact on migrant and host communities, political ecology of health with an interest in the historical relationships between health and urbanization in the North American context, geographic and policy dimensions of development in western China (especially as they are related to water resources and climate change), and food and agricultural systems in Mexico (focus on how local actors interact with transnational development organizations to shape landuse policies and agricultural practices).

Field research and measurement provide a major tool of research in this department. The Delaware Environmental Observing System (DEOS) established and maintains over 50 automated weather stations in Delaware and nearby, providing real-time weather information for regional environmental research as well as for a wide variety of outside users. Geographic studies are conducted as multiple scales from local to the global scale.

Research methods encompass analysis and synthesis of existing data, including data from observational networks, remote sensing sources, the census, modeling output, and other archival sources. Geographic Information Science (GIS) is used as an analysis and presentation tool in most of our research areas, and nearly all of our graduate students opt for significant training in GIS. GIS skills are complemented by training in remote-sensing, image analysis, statistical methods, and database programming. Although all masters and doctoral theses require topical research areas, emphasis on the research methods is commonly allowed at the masters level. The Graduate GIS Certificate Program prepares students to utilize GIS in their program area of study by developing the student's theoretical underpinnings of GIS and to develop their technical skills.

The University and Department cover student and faculty computing and computer network needs. All graduate student offices include department-provided workstations. The University provides licensed software sufficient for a wide variety of uses, including GIS, image processing, and statistical analysis software. The Geography Department operates the University's GIS classroom as a state-of-the-

art teaching facility. Departmentally owned workstations and data servers handle most of our data-intensive applications. A computer programmer/analyst assists with use of these resources. The Department's computing resources are supplemented by high-end Unix servers and computer clusters at the University level and by supercomputer resources available through SURA-Grid, supporting some of our larger data analysis projects and our atmospheric modeling.

The Department maintains a strong interest in geographic education, and graduate students can participate in outreach activities at local, regional, and national levels. The Delaware Geographic Alliance is headquartered in the Department and employs a full-time coordinator. Its mission is to enhance education at the K–12 level throughout the state of Delaware, primarily through providing existing teachers with resources and education.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University operates on the semester system. Admission requirements are an undergraduate GPA of 3.0 (4-point scale) and combined verbal and quantitative minimum GRE scores of 300 for the masters and Ph.D. programs. Applicants scoring lower on these criteria may be considered if they demonstrate superior aptitude in other respects. Admission is competitive and is based on the number of well-qualified applicants and the availability of faculty and financial resources. The graduate program will consider applicants without previous background in geography, although remedial work may be required as a condition of acceptance. Admission requirements for the Ph.D. program also include a thesis-based masters degree in geography or a discipline closely related to the proposed area of study, and demonstrated methodological training. Financial support is available through fellowships, research assistantships, and teaching assistantships. Financial support for entering graduate students is awarded on a competitive basis.

FACULTY:

Cristina Archer, Ph.D., Stanford University, 2004, Associate Professor — renewable energy, wind power, meteorology, climate change, air quality, numerical modeling of atmospheric processes.

Afton Clarke-Sather, Ph.D., University of Colorado, 2012, Assistant Professor — human dimensions of resource governance, particularly issues of water and climate

Tracy L. DeLiberty, Ph.D., Oklahoma, 1994, Associate Professor — climatology, sea ice, GIS, remote sensing

Cathleen A. Geiger, Ph.D., Dartmouth, 1996, Research Associate Professor — climatology, mechanics, kinematics, and dynamics of sea ice, cryosphere, polar regions

Brian Hanson, Ph.D., Minnesota, 1985, Professor — climate dynamics, glaciology, numerical modeling

Paul Jackson, Ph.D., University of Toronto, 2011, Assistant Professor — urban geography and political ecology of health

Daniel J. Leathers, Ph.D., Pennsylvania State, 1988, Professor and Delaware State Climatologist — snowfall and snow cover studies, cryosphere, atmospheric dynamics, hydroclimatology, microclimate

David R. Legates, Ph.D., Delaware, 1988, Professor and Coordinator of the Delaware Geographic Alliance — hydroclimatology, precipitation, snowfall measurement, global climate change, remote sensing of precipitation, computational methods

Delphis F. Levia, Ph.D., Clark University, 2000, Professor and Chair — biometeorology, ecohydrology, biogeochemistry, field methods and instrumentation, environmental management

Lindsay Naylor, Ph.D., University of Oregon, 2014, Assistant Professor — political geography, food and agricultural systems, critical development studies, critical geopolitics, Latin America

Sara Rauscher, Ph.D., University of Wisconsin-Madison, 2004, Assistant Professor — regional climate modeling dynamics, climate change and variability

April Veness, Ph.D., Minnesota, 1984, Associate Professor — urban/social geography, minority problems and places, geographic thought

Dana Veron, Ph.D., Scripps Institution of Oceanography, University of California-San Diego, 2000, Associate Professor and Director of the Environmental Science and Studies Program — regional modeling in Arctic/Antarctic, Arctic energy budget, cloud forcing and feedback, sea breeze, wind resource assessment, air-sea interactions

EMERITUS:

Edmunds V. Bunkše
Frederick Nelson
Thomas Meierding
Peter Rees
Yda Schreuder
Cort Willmott

PROFESSIONAL ACADEMIC STAFF:

Anne Dienert, M.Ed., Delaware, 1990, Delaware Geographic Alliance, Office Manager & Elementary School Manager — geographic education

Mary Schorse, Ph.D., Delaware, 2015, Delaware Geographic Alliance, Secondary & High School Manager — geographic education

Kenji Matsuura, Ph.D., Delaware, 1992, Geographic Programmer/Analyst — climatology, database management, computer applications

AFFILIATED FACULTY:

David L. Ames, Ph.D., Clark, 1969, Professor (joint appointment with Urban Affairs and Public Policy) and Director of the Center for Historic Architecture and Engineering — historic preservation, urban geography, urban and regional planning

John M. Byrne, Ph.D., University of Delaware, 1980, Professor (joint appointment with the Center for Energy and Environmental Policy) and Director of the Center for Energy and Environmental Policy (CEEP) — Political economy; sustainable development; environmental justice; technology, environment and society

Melinda Daniels, Ph.D., University of Illinois, 2003, Associate Research Scientist (affiliated appointment with Stroud Water Research Center) – fluvial geomorphology

Terri Lavin, Ph.D., University of Delaware, 1996, Adjunct Assistant Professor — climatology

Holly Michael, Ph.D., *MIT, 2005, Associate Professor (joint appointment with Geological Sciences)* — coastal groundwater dynamics, groundwater-surface water interaction, groundwater flow and solute transport modeling, water supply sustainability, geostatistical modeling of subsurface heterogeniety

Michael A. O'Neal, Ph.D, Washington, 2005, Associate Professor (joint appointment with Geological Sciences) — glacial and fluvial geomorphology, quaternary, geology and geochronology, GIS

James Pizzuto, Ph.D., Minnesota 1982, Professor (joint appointment with Department of Geological Sciences) — fluvial geomorphology

Andrea Sarzynski, Ph.D., *George Washington University, 2006, Assistant Professor (joint appointment with School of Public Policy and Administration)* — urbanization and environmental change, environmental policy and politics, urban and regional planning

Anthony Seraphin, Ph.D., Delaware, 2004, Associate Professor (joint appointment with Department of Mathematical Sciences) — climate datasets, pollution transport

Amy T. Smith, Ph.D., University of Delaware, 1995, Adjunct Assistant Professor — Conservation, resources and economic geography

Rodrigo Vargas, Ph.D., 2007, *University of California- Riverside, Assistant Professor (joint appointment wih Plant & Soil Sciences)* — ecosystem ecology, bioclimatology, soil-plant-atmosphere interactions, carbon cycling

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION OF GEOGRAPHERS

DATE FOUNDED: 1904
EXECUTIVE DIRECTOR: Douglas Richardson

FOR MORE INFORMATION WRITE TO: AAG, 1710 Sixteenth Street NW, Washington, DC 20009-3198. Voice 202-234-1450. Fax 202-234-2744. Email: gaia@aag.org. http://www.aag.org.

PROGRAMS: The American Association of Geographers (AAG) was founded to promote and encourage geographic research and education and to disseminate research findings. The AAG currently counts over 10,000 members in the United States, Canada, and other countries. AAG members work, teach, and conduct research at colleges, universities, and in business and government. Many others are independent scholars or students.

The Association accomplishes its goals by publishing its three quarterly journals, the Annals of the American Association of Geographers, the AAG Review of Books and The Professional Geographer, and the monthly AAG Newsletter; through outreach and educational programs; through research grants and contracts with government agencies; through the programs of its nine regional divisions, sixty-two specialty groups, and five affinity groups; and through multiple conferences and its annual meetings. At its most recent Annual Meeting in San Francisco, California in April, 2016, over 6,700 research papers, interactive short papers, and illustrated papers were presented on numerous topics by more than 9,000 geographers who attended. The AAG's 2017 Annual Meeting will be held from April 5-9, 2017 in Boston, Massachusetts. Professor Sarah W. Bednarz of Texas A&M University currently serves as president of the AAG. Professor Glen Macdonald of University of California, Los Angeles is vice president. Professor Mona Domosh of Dartmouth College is immediate past president. Additional details regarding AAG history and operations are contained in the handbook section of this volume.

STAFF:
Leanne Abraham, Research Assistant
Jennifer Cassidento, Journals Managing Editor (Annals of the AAG)
David Coronado, Communications Director
Colleen Dougherty, IT Director
Ed Ferguson, Director of Administration
Liza Giebel, IT Support Specialist
Sara Haywood, Director of Strategic Projects
Niem Huynh, Senior Researcher
Jolene Keen, Research Associate
Oscar Larson, Conference Director
Michelle Ledoux, Membership Director
Candice Luebbering, Senior Research Geographer
Jennifer Lunn, Senior Researcher and Journals Director
Robin Maier, Journals Production Editor (Professional Geographer)
Candida Mannozzi, Senior Manager of Program Development
Teri Martin, Director of Finance
Reacha O'Neal, Administrative Assistant
Becky Pendergast, Director of Design and Digital Products
Mark Revell, Workforce Development Specialist and Editor, AAG Guide
Douglas Richardson, Executive Director
Michael Solem, Director of Educational Research and Programs
Kelsey Taylor, Research Assistant
Yonette Thomas, Senior Advisor
Elin Thorlund, Research Assistant
John Wertman, Senior Program Manager for Government Relations

GEORGE WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1945
DEGREES OFFERED: B.A., M.A.
GRANTED 9/1/14-8/31/15: 56 Bachelors, 9 Masters
STUDENTS IN RESIDENCE: 117 Majors, 27 Masters
NOT IN RESIDENCE: 0
CHAIR: Lisa Benton-Short
DEPARTMENT ADMINISTRATIVE ASST: Andrii Berdnyk

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chairman, Department of Geography, 1922 F St. NW, Office 232, George Washington University, Washington, DC 20052. Telephone (202) 994-6185. Fax (202) 994-2484.
E-mail: geog@gwu.edu Internet: geography.columbian.gwu.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography is located in the heart of Washington, DC, within walking distance of the Departments of State, the World Bank, the Organization of American States, the White House, and short subway rides to the Library of Congress, the National Institutes of Health, and many other research facilities. The department has a large spatial analysis lab and a physical geography lab. In addition, faculty in the department work closely with the Elliott School of International Affairs, the Latin America and Hemispheric Studies Program, Sigur Center for Asian Studies, the Institute for Middle East Studies, and Environmental Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The Department offers a Bachelor of Arts in Geography which is made up of 36 credit hours in the major. Beyond the introductory sequence, there is a core curriculum of two courses in each of the following groups: 1) physical, 2) human, 3) techniques and one course in 4) regional. An additional requirement is a senior proseminar in geography. The Department also offers a Bachelor of Arts in Environmental Studies, which is an interdisciplinary degree. Minors in Geography and Geographic Information Systems (GIS) are also offered.

The Master of Arts degree program requires a B.A. or B.S. degree in geography or a related field in the social or natural sciences. Thesis and non-thesis options are available. The thesis option requires a minimum of 30 semester hours, including Thesis Research credit. The non-thesis option requires 36 hours of graduate work. The program of study has a three-course core, after which the student selects courses in conjunction with an advisor and the student's graduate committee. Students can select courses from allied programs within the University or available through the consortium of universities within the Washington area. The M.A. program focuses on the urban environment; development and sustainability; human migration and mobility; and applied geospatial techniques. A limited number of fellowships and teaching assistantships are available, as are internship

possibilities with various agencies. A GIS Certificate Program was introduced in 2014, which is a 12-credit program with rolling admission open to students who already have a B.A. or B.S. degree.

FACULTY:

Mona Atia, Ph. D., University of Washington, 2008, Associate Professor of Geography and International Affairs — Economic Development, Cultural, and the Middle East

Lisa M. Benton-Short, Ph.D., Syracuse University, 1997, Associate Professor and Chair of Geography — Urban Geography, Environmental Issues

Nuala Cowan, D.Sc., The George Washington University, 2013, Assistant Professor of Geography — GIS for Emergency Management, Open Geospatial Data for Disaster Preparedness

Stephen Cowan, M.A., University of Westminster, 2000, Lecturer of Geography — Military Geography, International Relations, and Political Theory

Elizabeth Chacko, Ph.D., UCLA, 1997, Associate Professor of Geography — Population, Cultural and Urban Geography, South Asia

Ivan Cheung, Ph.D., UCLA, 1998, Professorial Lecturer in Geography — Spatial Analysis, Climatology, Transportation

Joseph P. Dymond, M.S., Louisiana State University, 1999, M.S., Pennsylvania State University, 1994, Professorial Lecturer of Geography — Human, Political, and Latin American Geography

Ryan Engstrom, Ph.D., San Diego State University, 2005, Associate Professor of Geography — Physical Geography, Remote Sensing

Deepak Gopalakrishna, M.S. in Civil Engineering, Ohio State University, Professorial Lecturer of Geography — Transportation Planning and Policy, Transit Operations

Melissa Keeley, Ph. D., Technical University of Berlin, 2007, Assistant Professor of Geography — Urban Environmental Geography, Green Infrastructure, Environmental Policy

Michael Mann, Ph.D., Boston University, 2011, Assistant Professor of Geography — Spatial Modeling and Prediction, Land Use Change, Wildfire, and Agriculture

Lawrence Marcus, M.A., Indiana University, 1986, Assistant Professorial Lecturer of Geography — Urban Planning, Transportation

Marie D. Price, Ph.D., Syracuse University, 1991, Professor — Political, Cultural, Population, Latin America

David R. Rain, Ph.D., Pennsylvania State University, 1997, Associate Professor of Geography — Urban, Development, Sub-Saharan Africa, Geographic Information Systems

Wesley Reisser, Ph.D., UCLA, 2009, Professorial Lecturer in Geography — Political Geography, Energy

Nikolay Shiklomanov, Ph.D., University of Delaware, 2001, Associate Professor of Geography — Arctic Environments and Permafrost, Spatial Analysis, Geomorphology, Climate Change

Nathan Smith, M.A., Virginia Polytechnic Institute and State University, 2009, Lecturer of Geography — Geospatial Information Sciences, Emergency Management, Urban and Regional Planning

Dmitry Streletskiy, Ph.D., University of Delaware, 2010, Assistant Professor of Geography — Climate Change, Arctic Environments, Geography of Russia, Periglacial Geomorphology, and GIS

Qin Yu, Ph.D, University of Virginia, 2012, Professorial Lecturer of Geography — Arctic Environments and Remote Sensing

TECHNICAL STAFF:

Richard Hinton, MGIS, Pennsylvania State University, 2014, Lecturer of Geography — Cartography, Geographic Information Systems, and Geospatial Analysis

EMERITI:

John C. Lowe, Ph.D., Clark University, 1969 — Urban and Transportation Geography

Dorn C. McGrath, Jr., MCP, Harvard University, 1959, Professor — Urban and Regional Planning, Latin America, Transportation.

NATIONAL COUNCIL FOR GEOGRAPHIC EDUCATION

DATE FOUNDED: 1915
CHIEF EXECUTIVE OFFICER: Zachary R. Dulli

FOR FURTHER INFORMATION ABOUT NCGE PLEASE CONTACT: The National Council for Geographic Education, 1775 Eye Street NW, Suite 1150, Washington, D.C. 20006-2402. Telephone: 202-587-5727. Fax: 202-618-6249. E-mail: ncge@ncge.org Internet: www.ncge.org

PROGRAMS AND RESEARCH FACILITIES: The NCGE works to enhance the status and quality of geography teaching and learning. To meet its mission, the NCGE: promotes the importance and value of geographic education; enhances the preparation of geographic educators with respect to their knowledge of content, techniques, and learning processes; facilitates communication among teachers of geography; encourages and supports research on geographic education; develops, publishes, and promotes the use of curriculum, resource, and learning materials; cooperates with other organizations that have similar goals.

STAFF:

Zachary R. Dulli, CEO
Shana Gruenberg, Membership & Communications Coordinator
Allison Hunt, Webinar Coordinator
Melissa Lepak, Events Coordinator
Hanna Duke, Accountant

OFFICERS:

Ellen J. Foster, President
Susan Hume, Past-President
Howard Johnson, Treasurer
Jane Purcell, Recording Secretary
Osa E. Brand, Board Member
Seth Dixon, Board Member
Gary M. Gress, Board Member
Kenneth H. Keller, Board Member
Jeff Lash, Board Member
Audrey Mohan, Board Member
Charles Regan, Board Member
Zachary R. Dulli, CEO

EDITOR, *JOURNAL OF GEOGRAPHY*:
Jerry T. Mitchell

EDITOR, *THE GEOGRAPHY TEACHER*:
Rebecca Theobald

PATHWAYS PUBLICATION SERIES: (Partial List)

Bauman, Paul R., 2004 — The American Landscape from the Air: Studying US Geography with Aerial Photography

Bednarz, Robert S. (Editor), 2004 — A Teacher's Guide to Advanced Placement Geography: Essays, Strategies, and Resources

Bock, Judith A., 2004 — Grades 5-8 Standards Based Lesson Models

Dahmann, Donald D., 2011 — Geography in America's Schools, Libraries, and Homes

Estaville, Lawrence E., 2014 — Teaching Ethnic Geography in the 21st Century

Estaville, Lawrence E., 2011 — Geography Undergraduate Programs: Pathways to Success

Fraser, Celeste, 2002 — Grades K-4 Standards Based Lesson Models

Gersmehl, Phil., 1996 — The Language of Maps
Marcello, Jody S., 2007 — Teaching Map Skills: An Inductive Approach
Rice, G.H. and Bulman, T.L., 2001 — Fieldwork in the Geography Curriculum: Filling the Rhetoric-Reality Gap
Walk, Fred, 2003 — Grades 9-12 Standards Based Lesson Models

APPLIED TEACHING MATERIALS (ATMS) AND APPLIED RESEARCH MATERIALS (ARMS) PUBLICATION SERIES:
Marcello, Jody S., 2011 — AP Human Geography
Thomson, Herb, 2011 — A Geographic View of World History

OTHER PUBLICATIONS:
Stuart Sinton, Diana, 2013 — The People's Guide to Spatial Thinking
Elbow, Gary S., Rutherford, David J. and Shearer, Christopher (Editors) — Geographic Literacy in the United States: Challenges and Opportunities in the NCLB Era

The National Council for Geographic Education is the outlet for *Geography for Life: National Geography Standards (2012)* on behalf of the Geographic Education National Implementation Project (GENIP).

U.S. DEPARTMENT OF STATE

OFFICE OF THE GEOGRAPHER AND GLOBAL ISSUES
DATE FOUNDED: 1929
DIRECTOR: Lee R. Schwartz, The Geographer, U.S. Department of State

FOR FURTHER INFORMATION ABOUT CAREER OPPORTUNITIES AND APPLICATIONS PROCEDURES CONTACT: Personnel Officer, Bureau of Intelligence and Research, INR/EX/HR, Room 6880, Department of State, Washington, D.C. 20520-6510.
Telephone (202) 647-1988. Fax (202) 647-0504.

PROGRAMS AND RESEARCH FACILITIES: The Office of the Geographer and Global Issues carries out current research and analysis of international geographic issues of interest to senior U.S. policy makers. Areas of research include international boundaries, territorial and maritime issues, population growth problems and policies, international migration, refugee flows, national asylum and immigration policies, transboundary environmental and public health problems, humanitarian relief concerns, war crimes, and issues involving the United Nations and other international organizations.

BASIC QUALIFICATIONS: Analytical positions for geographers are available infrequently. Specific job requirements will determine qualifications but a graduate degree in Geography, foreign language, and excellent writing skills are recommended.

STAFF:
Lee R. Schwartz, Ph.D. Columbia, 1986, Office Director, Geographer — political and population geography, former Soviet Union/Eastern Europe, complex emergencies, refugees, human rights, crisis mapping, geospatial sciences for sustainable development, applied imagery analysis, and international diplomacy.
Zan Aslett, Ph.D. Geophysics, University of Nevada, Reno, 2010; BA Political Science, University of New Mexico, 2004 — AAAS Science & Technology Policy Fellow.
Stephanie H. Bartlett, B.F.A., Savannah College of Art & Design, 2004 — Cartographer, Humanitarian Information Unit.
Laura Cline, M.A. Geography, 2004, B.A. International Affairs, 2002, The George Washington University — Humanitarian Information Unit, National Geospatial-Intelligence Agency Support Team
Cynthia Day, Foreign Service Officer. B.A. University of Texas, 1994; M.J. Journalism University of California, Berkeley, 2000; M.A. University of Chicago 2002 — Foreign Affairs Analyst-Population, Refugees, and Migration.
Leo Dillon, M.S. Geography, University of South Carolina, 1984 — Cartographer and Chief of the Geographic Information Unit, foreign geographic names
Eric R.M. Doornbos, M.A. in Security Studies, Georgetown University, 2015; B.A. in History and International Relations, Calvin College, 2013 — International Boundary and Sovereignty issues
Frederick L. Faithful, MA Public Administration, Central Michigan University, 1974, BA History, Bowling Green State University, 1972 — Director, National Geospatial-Intelligence Agency Support Team.
Christine Fellenz, B.A., University of Wisconsin-Parkside, 1996 — Cartographer, Humanitarian Information Unit
Tim Forsyth, Foreign Service Officer. B.A. French, Portland State University, 1981; M.A. International Policy Studies, Stanford University, 2004 — Deputy Division Chief, Humanitarian Information Unit.
Debbie Fugate, PhD Geography, San Diego State University and the University of California, Santa Barbara, 2008; MA Geography, San Diego State University, 2003; BA Geography, San Diego State University, 2001 — Senior advisor to the Geographer and Humanitarian Information Unit.
Kimberly Garner, B.A. in Russian, University of Tennessee, 1991 — Executive Officer, National Geospatial-Intelligence Agency Support Team.
Tom J. Gertin, M.S. Geoinformatics and Geospatial Intelligence, George Mason University, 2012; B.A. Public and Urban Affairs, Virginia Polytechnic Institute and State University, 2007 — Geospatial Analyst, Humanitarian Information Unit.
Nathan J. Heard, Ph.D., 2009 and MSc., 2003, Harvard School of Public Health; B.A. Connecticut College, 1995 — Humanitarian Information Unit, Public Health Analyst – medical geography and HIV/AIDS.
C. Sherry Hong, Foreign Service Officer. B.A. Public Policy Studies, University of Chicago, 1998; M.S. Environmental Management and Science, Department of Civil and Environmental Engineering, Carnegie Mellon University, 2012 — Chief, Multilateral and Transnational Issues Division
Sukhraj Kaur, M.A. Political Science, George Mason University, 2015; B.A Government and International Politics. George Mason University, 2013 — Humanitarian Researcher, Humanitarian Information Unit
Adrienne Keen, Ph.D. Infectious Disease Modeling and Epidemiology, University of London, 2013; M.S. Ecology, Evolution, and Behavior, University of Minnesota, 2007; B.S. Biological Sciences and B.A. Physiology, University of Minnesota, 2004 — Global Health Analyst
Dennis J. King, M.S. Columbia University, 1983, Humanitarian Information Unit — Humanitarian Analyst
Elliot Klosterman M.A. Middle Eastern Studies, University of Texas at Austin 2015, B.A Intelligence and Security Studies, Arabic, Political Science, Ohio State University 2012 — Analyst-International Organizations
Melinda J. Laituri, Ph.D., University of Arizona, 1993; M.S. California State University, Chico, 1985; B.A. University of California, Berkeley, 1979 — Science Advisor, Humanitarian Information Unit; Professor, Colorado State University, geographic information systems, water resource management, watershed science, disaster management, indigenous peoples, local knowledge systems.
David H. Linthicum, M.A. University of Kansas, 1984; B.S. University of MD — international boundary delineation.
Paulette Lloyd, Ph.D., University of California, Los Angeles, 2005 — Foreign Affairs Research Analyst. Trafficking in Persons, global

women's issues, international justice and accountability, war crimes, atrocity prevention

Mariah Mercer, M.A. Australian National University, 2011; B.A. Miami University, 2003 — Analyst - Human Rights, Women's Issues, and Democracy.

Daniel Moore, M.A. in International Security, University of Denver, 2015; B.A. in Government, The University of Texas at Austin 2010 — Analyst – Civilian Security

Michael D. Morin, M.A. George Washington University, 1987; B.A. University of Maine-Orono, 1984 — Chief, War Crimes, Democracy, and Human Rights Division.

Kathleena M. Mumford, B.A. Geography, George Washington University, 2012 — Analyst, Humanitarian Information Unit.

Erika K. Nunez, B.A. Global Studies and Peace, War, and Defense, University of North Carolina at Chapel Hill, 2013 — Humanitarian Researcher, Humanitarian Information Unit

Trent C. Palmer, M.S. Geomatics, Purdue University, 2000; M.A. Geography, University of Georgia, 1991; B.A. Cultural Geography, Middle Tennessee State University, 1988 — geographic names and international boundaries.

Rachel L Sauer, J.D. and graduate certificate in Human Rights University of Connecticut School of Law, 2010; B.A. Political Science and International Studies University of Illinois, 2007 — Analyst - International Organizations; Atrocities Prevention Board.

Rod Schoonover, PhD Chemical Physics, University of Michigan, 1993; B.S. Chemistry, B.S. Physics, University of Kansas, 1987 — Science and Technology Analyst.

Lauren F. Serrano, Marine Captain and Middle East Foreign Area Officer, M.S. National Intelligence University, 2015; B.A. and dual Minors Drexel University, 2009 — Foreign Affairs Analyst – Conflict and Stabilization Operations, Civilian Security, Democracy, and Human Rights

Jonathan K. Simmons, Lieutenant Colonel, US Army; M.A. International Relations, Rice University, 2015; M.A. National Security and Strategic Studies, US Naval War College, 2010; M.S. Geology and Geophysics, Missouri University of Science and Technology 2001; B.S. Geophysics, Virginia Polytechnic Institute and State University 1995 — Department of Defense Liaison/Analyst - Humanitarian Information Unit

Christine Lamers Somer, BA Cultural Geography, Illinois State University — Deputy Director, National Geospatial-Intelligence Agency Support Team

Gene Thorp, B.A. Geography and B.A. History, University of Maryland Baltimore County, 1992 — Cartographer, Geographic Information Unit

Karen A. Tokarsky, M.A. Clinical Psychology, Marshall University, 1985; B.S. Psychology, Indiana University of Pennsylvania, 1983 — Administrative Officer.

Gary W. Tripmacher, M.A. in International Affairs, George Washington University 2009; B.A. in History, Boston College 2002 — Analyst - UN, International Organizations.

Benson Funk Wilder, M.A. Geography, University of Colorado at Boulder, 2006; B.A. Biology, Swarthmore College, 1999 — Analyst, Humanitarian Information Unit.

Ashley B. Zung, Ph.D., Geography, University of Kansas, 2013; M.A., Geography, University of Kansas, 2008; B.S., Journalism, University of Kansas, 1998; B.A., Communication Studies, University of Kansas, 1998 — Food Security Analyst – food security, environmental issues, and humanitarian issues in Africa

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

DEPARTMENT OF GLOBAL AND SOCIOCULTURAL STUDIES
DATE FOUNDED: 2008
DEGREES OFFERED: B.A. Geography; B.A. Sociology/Anthropology; M.A. and Ph.D. Global and Sociocultural Studies (GSS)
GRANTED 2015-2016: 11 B.A. Geography; 87 B.A. Sociology/Anthropology; 6 M.A. GSS; 2 Ph.D. GSS
MAJORS: 24 (Geography B.A.); 295 (Sociology/Anthropology); 3 (GSS M.A.); 61 (GSS Ph.D.)
HEAD: Roderick Neumann
DEPARTMENT OFFICE MANAGER: Dominic Lomando

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Florida International University's Department of Global & Sociocultural Studies, 11200 S.W. 8 Street, SIPA 340, Miami, FL 33199 – Telephone: (305)-348-2247 – Fax: (305)-348-3605
Email: gss@fiu.edu – Website: http://gss.fiu.edu/

PROGRAMS AND RESEARCH FACILITIES:
Undergraduate: The geography Bachelor of Arts degree program at FIU offers students the opportunity to develop knowledge and skills in economic and cultural geography, development, gender and international studies, GIS, and political ecology. The Department has strong regional expertise in Latin America, the Caribbean, Africa, the Middle East, and North America.

Graduate: The graduate program in Global and Sociocultural Studies is a core department in the Steven J. Green School of International and Public Affairs. The Department integrates the disciplinary approaches of geography, anthropology, and sociology with cross-disciplinary theorizing and research. The M.A. and Ph.D. curricula are organized by three intersecting themes: Identities & Inequalities; Migrations & Diasporas; and Nature-Society. Disciplinary concentration in Geography is an option for the Ph.D. as is a graduate certificate in Geographical Information Systems (GIS). Facilities: The Department is located in the Green School of International and Public Affairs Building situated in the center of the campus. The building features state-of-the-art classrooms, faculty offices, a graduate student office suite, a 500-seat auditorium with simultaneous translation booths, two language labs, and a GIS and data processing lab. In addition, students have access to the university's state-of-the-art GIS facility.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Undergraduate admissions requirements are the same as those for admission to the Steven J. Green School of International and Public Affairs. Geography majors are required to complete two lower division geography courses as program prerequisites. The degree requires 30 credits for completion. Students are encouraged to pursue double majors, minors, and certification in related fields of study. Graduate admissions are submitted on-line through FIU's University Graduate School, http://gradschool.fiu.edu/. In addition, a separate statement of purpose and three letters of recommendation should be sent directly to the Department. Please see the Department's web pages for further information. Graduate students may apply for teaching assistantships (stipend plus tuition waiver) and several on-campus fellowships.

FACULTY:

Young Rae Choi, Ph.D., Ohio State University, 2015, Assistant Professor [GEO]

Peter Craumer, Ph.D., Columbia University, 1988, Associate Professor [GEO] — Russia and former Soviet Union, rural geography, agriculture, and population change

Jorge Duany, Ph.D., University of California, 1985, Professor [ANT] — Caribbean Migration, Ethnicity, Race, Nationalism, and Transnationalism

Juliet Erazo, Ph.D., University of Michigan, 2003, Associate Professor [ANT] — Indigenous social movements, globalization, environmental anthropology, political ecology; Amazonia, the Andes, Ecuador

Christopher Girard, Ph.D., University of Wisconsin-Madison, 1988, Associate Professor [SOC] — Research Methods, deviance, medical sociology, social problem, stratification

Hugh Gladwin, Ph.D., Stanford University, 1970, Associate Professor [ANT] — Economic and cognitive anthropology, public opinion research, research methods; West Africa, Mesoamerica

Ricardo Gonzalez, Ph.D., University of Hawaii, 2008, Instructor [GEO] — Coastal/Marine Geography, Political Ecology, Cultural Geography, Latin America, Caribbean, Europe

Guillermo Grenier, Ph.D., University of New Mexico, 1986, Professor [SOC] — Labor relations, sociology of work, ethnicity, immigration; United States, Cuba/Latin America

Kevin Grove, Ph.D., Ohio State University, 2011, Assistant Professor [GEO] — Environmental security, development, geopolitics, Caribbean political economy, vulnerability, adaptation and resilience, urban political ecology

Percy Hintzen, Ph.D., Yale University, 1981, Professor [SOC] — Comparative political sociology, postcolonial studies, political & economic development, Caribbean political-economy, diaspora studies, African studies, critical methodology

Gail Hollander, Ph.D., University of Iowa, 1999, Associate Professor [GEO] — Economic geography, agro-environmental conflict, food system theory, feminist geography; North America and the Caribbean

A. Douglas Kincaid, Ph.D., Johns Hopkins University, 1987, Associate Professor [SOC] — Political sociology, urban/rural sociology, sociology of development; Central America, Latin America

Qing Lai, Ph.D., University of Michigan, 2014, Assistant Professor [SOC] — Quantitative methods, demography, life course, social stratification and inequalities, globalization, development, China, social psychology

Abraham Lavender, Ph.D., University of Maryland, 1972, Professor [SOC] — Ethnicity and minority groups, Sephardic studies, Crypto-Jewish studies, social deviance, human sexuality, urban sociology; South Florida

Katherine Lineberger, Ph.D., University of Colorado at Boulder, 2009, Instructor [SOC]

Shearon Lowery, Ph.D., Washington State University, 1979, Associate Professor [SOC] — Social deviance, mass communications, juvenile delinquency, criminology

Sarah Mahler, Ph.D., Columbia University, 1992, Associate Professor [ANT] — Urban anthropology, cultural anthropology, physical anthropology; Latin America, Caribbean, North America

Matthew Marr, Ph.D., University of California-Los Angeles, 2007, Associate Professor [SOC] — Urban sociology, Japanese society, qualitative research methods, globalization, poverty, public sociology; Japan, United States

Roderick Neumann, Ph.D., University of California-Berkeley, 1992, Professor [GEO] — Political ecology, landscape and identity, nature-society, social theory, Africa; Europe

Jeff Onsted, Ph.D., University of California-Santa Barbara, 2007, Associate Professor [GEO] — Urban ecology, urban growth issues, theory and modeling, land use change science, geographic information systems, agricultural geography and farmland loss, farmland protection, agroecology

Ulrich Oslender, Ph.D., University of Glasgow, 2001, Associate Professor [GEO] — Political geography, cultural geography, political ecology, social movements, Latin America, Colombia, cultural politics of blackness, forced displacement, geopolitical discourses on terror

Mark Padilla, Ph.D., Emory University, 2003, Associate Professor [ANT] — Critical medical anthropology, global health, Latin America, Caribbean, Dominican Republic, tourism studies, gender/sexuality studies, HIV/AIDS research and prevention, mixed methods research on health inequities

Vrushali Patil, Ph.D., University of Maryland, 2006, Associate Professor [SOC] — Gender, sexuality, culture, transnationalism, feminist theory

Marifeli Perez-Stable, Ph.D., State University of New York-Stony Brook, 1985, Professor [SOC] — Latin America, Cuba and the Caribbean, political sociology, historical sociology, public intellectuals, national reconciliation, human rights

Andrea Queeley, Ph.D., City University of New York, 2007, Associate Professor [ANT] — Cultural anthropology, social inequality, black popular culture, anthropological fieldwork, African diaspora studies, the Caribbean

Jean Rahier, Ph.D., University of Paris, 1994, Professor [ANT] — Race relations, African studies; Africa, Latin America

Jason Ritchie, Ph.D., University of Illinois, 2010, Assistant Professor [ANT] — Race, gender, and sexuality; sovereignty, biopolitics, and the nation-state; secularism, religiosity, and affect; queer theory; Islam, the Middle East, and Israel-Palestine

Derrick Scott, Ph.D., University of Maryland, 2012, Instructor [GEO] — Urban geography, geo-economics/politics, GIS, housing issues, new-urbanism, smart growth areas; West Indies, U.S. Cities, Sub-Saharan Africa

Benjamin Smith, Ph.D., University of Kentucky, 2008, Associate Professor [GEO] — Cultural landscapes, economic geographies, urban geographies, contemporary Persian Gulf

Richard Tardanico, Ph.D., Johns Hopkins University, 1979, Associate Professor [SOC] — Political economy of development, urban sociology; Latin America

Nelson Varas-Diaz, Ph.D., University of Puerto Rico, 2002, Professor [SOC]

Dennis Wiedman, Ph.D., University of Oklahoma, 1979, Clinical Associate Professor [ANT] — Medical anthropology, organizational culture, environment anthropology, urban anthropology, ethnohistorical research methods, applied anthropology; Native Americans

FLORIDA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1925
GRADUATE PROGRAMS FOUNDED: M.A. 1930, Ph.D. 1995, M.S. GIScience 2006
DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.
GRANTED 8/31/2003-3/31/16: 28 M.A., 130 M.S. 45 Ph.D.
STUDENTS IN RESIDENCE: 262 Majors, 31 Masters, 32 Ph.D.
CHAIR: James Elsner
GRADUATE DIRECTOR: Victor Mesev
DEPARTMENT ADMINISTRATIVE ASST: Audrey Nichols

FOR FURTHER INFORMATION: Graduate School (www.gradschool.fsu.edu) and Geography Graduate Director, Dr. Victor Mesev (850-645-5913, vmesev@fsu.edu) at the Department of Geography, 323 Bellamy Building, 113 Collegiate Loop, Florida State University, Tallahassee, Florida 32306-2190. Tel: (850) 644-1706. Fax: (850) 644-5913. www.geography.fsu.edu

PROGRAMS AND RESEARCH FACILITIES: Geography at Florida State University investigates critical issues dealing with geospatial inquiry and the social-physical environment interaction. Particular focus is given to methodological and theoretical studies relating to cities, urban politics, storm activity/mitigation, climate change indicators, urban remote sensing, and space-time visualization. Recent research in geospatial research includes land use modeling, image classification, transportation optimization, regionalization, time series analysis, network analysis, dasymetric models, neural nets, Bayesian probabilities, landscape dynamics, fractal geometry, and scale dependence. Social-environmental research examines the human costs and physical impacts of hurricanes and tornadoes, change impacts on biodiversity and ecosystem functions, flood frequency, coastal ecosystems, marine conservation and protection, energy consumption, environmental health and justice, waste management, urban political ecology, race and labor geographies, population vulnerability, and policies for natural resource management. There is an undergraduate program in Geography (34 semester hours), and an interdisciplinary STEM program, Environment & Society (41 semester hours). For the master's program with the thesis option, students must complete at least 33 semester hours, including 24 hours of course work and 6 credit hours of thesis (which must be defended orally). A non-thesis option requires 33 semester hours of coursework. A master's program is also available in GIScience consisting of 32 credit hours (which include 6 internship/project hours) and may be completed within one year. Research and teaching is conducted in two fully-equipped and purpose-built GIS labs with all major GIS and remote sensing proprietary software and dedicated GIS teaching assistants. The Ph.D. degree requires 33 credit hours, and courses in geographic philosophy, research methods, quantitative/qualitative geography, and professional development. Written and oral comprehensive examinations must be passed. The dissertation requires 24 credit hours as well as an oral defense upon completion. Recent Ph.D. recipients have been placed in academic positions, state/federal environmental offices, and private software companies. The Department also enjoys productive relationships with institutions such as, Florida Resources and Environmental Analysis Center, Institute for Government, Fish & Wildlife Conservation Commission, Department of Transport, USDA Forest Service, National Parks, and Tallahassee-Leon County GIS.

ADMISSION REQUIREMENTS AND FINANCIAL AID: Graduate Admission requires a minimum GPA of 3.0 and/or a GRE score of at least 144 (quant) and 153 (verbal). Non-native English speakers need a TOEFL of 550 (PBT) or 80 (IBT). Funding for graduate assistantships is available at the current rate of $17,000-$19,500 per academic year, plus tuition waiver. Other sources of funding include research assistantships, university fellowships, online mentoring, and internships with local and state institutions.

FACULTY:

Ronald Doel, Ph.D., Princeton, 1990, Associate Professor of History — environmental history, international relations, Arctic

James Elsner, Ph.D., Wisconsin-Milwaukee, 1988, Earl B. & Sophia H. Shaw Professor & Chair — hurricanes, tornadoes, spatial statistics, climatology

David Folch, Ph.D., Arizona State, 2012, Assistant Professor — GIS, geocomputation, spatial analysis, urban geography

Mark Horner, Ph.D., Ohio State, 2002, Professor — GIS, transportation, spatial analysis, urban geography

Mary Lawhon, Ph.D., Clark, 2011, Assistant Professor — political geography, urban political ecology, waste, African urbanism

Sarah Lester, Ph.D., California-Santa Barbara, 2007, Assistant Professor — marine conservation, biogeography, macroecology, sustainable seafood

Tyler McCreary, Ph.D., York, Canada, 2014, Assistant Professor — race & indigeneity, environmental justice, political ecology, legal & labor geographies

Victor Mesev, Ph.D., Bristol, England, 1995, Professor & Graduate Director — GIS, remote sensing, cartography, urban geography

Stephanie Pau, Ph.D., UCLA, 2009, Assistant Professor — biogeography, remote sensing, tropical forests, c4 grasses, climate change

Joseph Pierce, Ph.D., Clark, 2011, Assistant Professor — urban geography, political geography, urban sustainability, qualitative methods

Christopher Uejio, Ph.D., Wisconsin-Madison, 2011, Assistant Professor — public health, medical geography, climate change, vulnerability

Xiaojun Yang, Ph.D., Georgia, 2000, Professor — remote sensing, GIS, urban ecology, coastal ecosystems

Tingting Zhao, Ph.D., Michigan, 2007, Associate Professor — GIS, energy, sustainability

ADJUNCT FACULTY:

Genevieve Brackins, Ph.D., Florida State, 2014 — geographies of gender, environment & justice

George Cole, Ph.D., Florida State, 2007 — land survey methods, GPS

Catherine Howard, Ph.D., Walden, 2010 — medical geography, epidemiology, public health

Loury Migliorelli, M.S., Florida State, 2014 — biogeography

Richard Miller, Ph.D., Wisconsin-Milwaukee, 1987 — landforms, US national parks

Laurie Molina, Ph.D., Florida State, 1997 — geographic education

Sean Nickerson, M.S., Florida State, 2015 — GIS, spatial databases, drone mapping

Nicholas Quinton, Ph.D., Florida State, 2014 — electoral geography, economic geography

Scott Weisman, M.S., Florida State, 2007 — GIS, local government

UNIVERSITY OF FLORIDA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1941
GRADUATE PROGRAM FOUNDED: 1947
DEGREES OFFERED: B.A., B.S., B.S. in Environmental Geosciences, B.A. and B.S. in Medical Geography in Global Health, M.A., M.S., Ph.D.
GRANTED 9/1/2014-8/31/15: 23 Bachelors, 2 Masters, 5 Ph.D.
STUDENTS IN RESIDENCE: 67 Majors, 14 Masters, 39 Ph.D.
CHAIR: Michael W. Binford
DEPARTMENT ADMINISTRATIVE ASST: Desiree Price

FOR CATALOG AND FURTHER INFORMATION CONTACT: Dr. Corene Matyas email:matyas@ufl.edu, Graduate Coordinator or Desirée Price dprice@ufl.edu, Graduate Secretary, Department of Geography, PO Box 117315, University of Florida, Gainesville, Florida 32611-7315. Telephone (352) 392-0494. Fax (352) 392-8855. WWW: http://geog.ufl.edu/

PROGRAMS AND RESEARCH FACILITIES: The Department offers six main areas of specialization for undergraduate training and graduate research: human-environment interactions; resource management and land-change science; medical geography, natural resources geography, Latin-American and African geography, and physical geography. *Human-environment interactions* includes topics such as regional ecosystem consequences of forest management, environmental and cultural effects of hydropower development on large tropical rivers, spatial economic theory; housing and care of the elderly. *Resource management and land-change science* focuses on agricultural change and natural resource conservation and development in the tropics and subtropics, and rural and urban land

use and land cover change in tropical and temperate regions. Latin America and Africa are the primary areas of regional emphasis. *Medical geography* is a combination of geography and medical sciences and focuses on spatial aspects of human and animal illnesses and healthcare. *Physical geography* in the department concentrates on climatology, fluvial geomorphology, hydrology, coastal environments and biogeography.

The department has state-of-the art GIS, remote sensing, and computer cartography facilities, with two fully equipped teaching laboratories, a flexible-instruction classroom, a research and teaching preparatory lab, and extensive research equipment in several individual faculty laboratories. The department is strongly tied to many other units on campus, and is one of the principal participants of several campus-wide institutes and centers: the Center for African Studies and the Center for Latin American Studies, the Land Use and Environmental Change Institute; the Emerging Pathogens Institute, the Climate Institute, the Water Institute. Many faculty members in the department are also appointed to the faculty of the virtual School of Natural Resources and Environment (SNRE).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The academic year consists of two semesters and two summer sessions. Admission to the Graduate School requires the completion of a baccalaureate degree from an accredited college, a B average or better (or its equivalent), a minimum GRE verbal score of 140 (new scale), three letters of recommendation, and a Statement of Purpose. Foreign students whose first language is not English are required to obtain satisfactory scores (IELTS: 6. MELAB: 77. TOEFL (Internet-Based): 80. TOEFL (Paper-Based): 550). The Fall semester at the University of Florida generally begins around August 20, and the Spring semester begins around January 5 (see University website for exact dates). Applicants for the M.A., M.S. or Ph.D. degrees will be considered irrespective of their previous specialization in the physical and social sciences and humanities. Deficiencies in undergraduate coursework in geography may be corrected concurrently with registration in appropriate graduate level courses.

The Department of Geography and the University of Florida offer various types of financial support for qualified graduate students. Teaching assistantships are awarded on a competitive basis for the nine-month academic year and for the two summer semesters. Waivers for out-of-state tuition are included. Stipends begin at about $16,000 plus tuition waiver for the nine month academic year and at about $2,600 for a 6-week summer semester. A limited number of fellowship awards for highly qualified applicants may carry stipends of $20,000. Research assistantships for the nine-month academic year and the summer semesters are also sometimes available from faculty members seeking assistance on grant-supported research projects. Research assistantship stipends are determined by the individual faculty member. NDEA Title VI Fellowships may be available for students interested in Latin American or African studies. *Applications for teaching and research assistantships for the Fall Semester should be submitted by January 31.*

The University also awards on a competitive basis a number of fellowships and scholarships for which new geography graduate students are often eligible. Other fellowships and supplemental awards are also available from the department or other units of the university. (Candidates should check university website for current information on financial aid and awards.) *Applications considered for most of these awards should be submitted by January 31.*

All information about applying to the graduate program can be found at http://geog.ufl.edu/programs/grad/admissions/. The online Graduate Catalog is found at http://gradcatalog.ufl.edu/. Other inquiries should be directed to the Graduate School, Grinter Hall, University of Florida, Gainesville, Florida 32611.

FACULTY:

Michael W. Binford, Ph.D., Indiana, 1980, Professor — land-water interactions, human-environment interactions, GIS and remote sensing in environmental systems, paleoecology, tropical and subtropical Americas, southern and east Africa, Southeast Asia

Jason K. Blackburn, Ph.D. Louisiana State University, 2006, Associate Professor — medical geography, spatial aspects of zoonotic diseases, species distribution modeling, central Asia, North America, southern Africa

Brian Child, D.Phil, University of Oxford, 1988, Associate Professor – community based natural resource management, human-environment interactions, southern Africa

Timothy J. Fik, Ph.D., Arizona, 1989, Associate Professor — economic, urban, quantitative methods

Gregory E. Glass, Ph.D., Kansas, 1983, Professor — medical, biogeography, human-environment interactions, zoonotic and insect-borne diseases, biological threat reduction programs

Stephen M. Golant, Ph.D., Washington, 1972, Professor — social, behavioral, social gerontology, urban

Abraham C. Goldman, Ph.D., Clark, 1986, Associate Professor and Director of the Center for African Studies — tropical agriculture and land use, Africa, resources and conservation

Liang Mao, Ph.D., State University of New York at Buffalo, 2010, Associate Professor — medical, spatial modeling for disease epidemics, disease control strategies, spatial/social network analysis, GIS/RS for environmental health

Corene J. Matyas, Ph.D. Pennsylvania State University, 2005. Associate Professor — Climatology, severe weather, tropical cyclone behavior and modeling

Joann Mossa, Ph.D., Louisiana State, 1990, Professor — fluvial geomorphology, coastal studies, hydrology, human impacts in river and coastal settings, river restoration

Sadie J. Ryan, Ph.D., California – Berkeley, 2006, Assistant Professor — medical, biogeography, spatial and ecological aspects of disease transmission, Africa, Antarctica, North America

Cynthia S. Simmons, Ph.D., Florida State University, 1999. Associate Professor — human-environment interactions, political economy, political ecology, land-change science, sustainability, South America, Amazon

Jane Southworth, Ph.D., Indiana University, 2000, Professor — remote sensing of land-cover change, time-series analysis, savanna dynamics, climate variability and climate change, coupled social-ecological systems

Robert T. Walker, Ph.D. University of Pennsylvania, 1984, Professor — nature-society studies, land-change science, geospatial analysis

Peter R. Waylen, Ph.D., McMaster, 1982, Professor and Associate Dean of the College of Liberal Arts and Sciences — hydrology, quantitative methods, water resources

EMERITI FACULTY:

Cesar N. Caviedes, D.Sc., Freiburg, 1969, Professor Emeritus — South America, environmental systems, political

Barbara E. McDade-Gordon, Ph.D., Texas, 1992, Associate Professor Emerita — economic, economic development, Africa, African diaspora

Nigel J.H. Smith, Ph.D., UC, Berkeley, 1976, Professor Emeritus — conservation and development of natural resources, ethnoecology, Amazonia

AFFILIATED FACULTY:

Holly Donohoe, Ph.D., Carleton University, 2009, Assistant Professor, University Librarian, and Head, Map Library — map interpretation, geographical bibliography, biotic resources

Andrew Noss, Ph.D. Florida 1995, Courtesy Assistant Professor of Geography — cultural geography, natural resource management, Africa, Latin America

Marilyn E. Swisher, Ph.D., Florida, 1982, Associate Professor of Home Economics — tropical agriculture, women in agricultural development

GEORGIA

GEORGIA COLLEGE & STATE UNIVERSITY

DEPARTMENT OF HISTORY & GEOGRAPHY
DATE FOUNDED: 2010
DEGREES OFFERED: B. A.
GRANTED 8/22/14-8/22/15: 19 Bachelors
CHAIR: Aran MacKinnon
DEPARTMENT ADMINISTRATIVE ASST.: Amy Mimes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Doug R. Oetter, Department of History & Geography, Georgia College CBX 120, Milledgeville, Georgia, 31061. Telephone (478) 445-7379. Fax (478) 445-5837.
E-mail: doug.oetter@gcsu.edu.
Internet: http://www.gcsu.edu/history/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts degree in Geography at Georgia College & State University was created in 2010 to serve as a general geography major in the College of Arts & Sciences at Georgia's Public Liberal Arts University. We have crafted a degree program with a balanced emphasis on Human Geography, Physical/Environmental Geography, Regional Analysis, and Geographic Techniques. Our graduates are well prepared for several careers, from geographic education to geospatial science, military service, or graduate school. As a public liberal arts university, we encourage our majors to coordinate their coursework toward minors or second majors, including history, environmental science, and political science.

Following the completion of a core curriculum requiring two physical geography and two human geography courses, students participate in a sophomore-level research seminar and complete nine courses in five major areas at the upper-level: (1) human geography; (2) physical and environmental geography; (3) regional analysis; (4) geographic techniques; and (5) senior capstone (e.g., thesis, research paper, internship, study abroad, teaching practicum, or applied study). Majors can also participate in an Honors Program and other concentrations/minors within the College. Internships designed for geography majors are available. The department sponsors the Geography Club, and students participate in several other cross-campus and community activities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Georgia College is on a semester plan. Admission requirements are available from: Office of Admissions, Georgia College CBX 023, Milledgeville, Georgia, 31061 (http://www.gcsu.edu/admissions/). Financial Aid information may be obtained from the Office of Financial Aid, Georgia College CBX 030, Milledgeville, Georgia 31061, (http://www.gcsu.edu/financialaid/).

FACULTY:
Chuck Fahrer, Ph.D., University of South Carolina, 2001, Professor ― political geography, geography of health, geographic education, Europe, Middle East.
Doug Oetter, Ph.D., Oregon State University, 2002, Professor ― remote sensing, geographic information, physical geography, land cover change, South America.
Amy Sumpter, Ph.D., Louisiana State University, 2008, Associate Professor ― race and ethnicity, cultural geography, American South.
Eric Spears, Ph.D., West Virginia University, 2004, Assistant Vice President of International Education ― political ecology, Latin America, East Asia.

GEORGIA SOUTHERN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY
DATE FOUNDED: 1964
DEGREES OFFERED: B.A. and B.S. in Geology; B.A. and B.S. in Geography; MS Applied Geography (fall 2017)
GRANTED 8/1/14-6/30/15: 22 Bachelors
MAJORS: 104
CHAIR: Dr. Jeffrey Underwood

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geology and Geography, Georgia Southern University, PO Box 8149, Statesboro, Georgia 30460-8149. Telephone (912) 478-0667. Fax (912) 478-0668.
Internet: http://cosm.georgiasouthern.edu/geo/

PROGRAM AND RESEARCH FACILITIES: The Department of Geology and Geography offers the B.S. and B.A. degrees in Geology, the B.A. and B.S. in Geography as well as undergraduate minors in geography, GIS, and geology. The Department will begin enrolling graduate student for the Degree Program in Applied Geography during fall semester of 2017. The geography major requires 126 semester hours, while a minor requires a minimum of 16 semester hours. The new graduate program will require 36 semester hours for completion. The multiple Geography Program offer students a broad range of courses in human, physical, and regional geography as well as GIS and remote sensing. The Geography Program is a campus leader in study abroad offerings and international research.

Georgia Southern University is a Carnegie Doctoral/Research University and is a unit of the University System of Georgia. University enrollment is more than 23,000 students. The main campus is located in Statesboro which is less than 50 miles northwest of historic Savannah and 200 miles southeast of Atlanta. The Department of Geology and Geography operates a research facility, the Applied Coastal Research Laboratory, on Skidaway Island, Georgia, a 250 acre field station at the Ogeechee River just east of campus, and has an executed MOU with the Mindo Cloud Forest Reserve in Ecuador to provide research opportunities for faculty and students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Georgia Southern University operates on the semester system. Financial aid is available to qualified students through the University's Financial Aid Office. For information concerning admission requirements, contact the Admissions Office, Georgia Southern University, PO Box 8024, Statesboro, Georgia 30460. Telephone (912) 478-5391.

FACULTY:
Ashley R. Coles, Ph.D., Arizona, 2013, Lecturer in Geography — society-environment interactions, hazards, natural resource management
Christine M. Hladik, Ph.D., Georgia, 2012, Assistant Professor of Geography — remote sensing, coastal and marsh environments, modeling
C.J. Jackson, Ph.D., Georgia, 2010, Assistant Professor of Geology — coastal geology, shoreline evolution, remote sensing
Jacque L. Kelly, Ph.D., Hawaii-Manoa, 2012, Assistant Professor of Geology — groundwater geochemistry, coastal hydrology, remote sensing

Melissa Lombard, Ph.D., University of New Hampshire, 2012, Lecturer in Geology — environmental geochemistry, hydrology
Kathlyn M. Smith, Ph.D., Michigan, 2010, Assistant Professor of Geology — paleoecology, invertebrate paleontology
Nicholas C. Radko, MS, Georgia, 2011, Lecturer in Geology — environmental geology, field methods
James S. Reichard, Ph.D., Purdue, 1995, Professor of Geology — hydrogeology, environmental geology
Fredrick J. Rich, Ph.D., Penn State, 1979, Professor of Geology — coastal plain geomorphology, palynology, paleoecology
Charles H. Trupe, III, Ph.D., North Carolina, 1997, Associate Professor of Geology — structural geology, petrography
Wei Tu, Ph.D., Texas A&M, 2004, Associate Professor of Geography — GIS, economic, China, Asia
Jeffrey Underwood, Ph.D., Georgia, 1999, Professor of Geography and Chair — Climatology, hydrometeorology, hazards
R. Kelly Vance, Ph.D., New Mexico Tech, 1989, Associate Professor of Geology — economic geology, igneous and metamorphic petrology
John T. Van Stan, Ph.D., Delaware, 2012, Assistant Professor of Geography — forest hydrology, biogeochemical processes, field methods
Mark R. Welford, Ph.D., Illinois, 1993, Professor of Geography — fluvial geomorphology, biogeography
Robert A. Yarbrough, Ph.D., Georgia, 2006, Associate Professor of Geography — immigration, population, southern United States
Xiaolu Zhou, Ph.D., Illinois, 2014, Assistant Professor of Geography — GIS, urban environments, spatiotemporal data visualization
Gale A. Bishop, Ph.D., Texas, 1971, Emeritus — paleontology, crab ecology, sea turtles
James H. Darrell, Ph.D., Louisiana State, 1973, Emeritus — paleontology, sedimentology, environmental geology
Daniel B. Good, Ph.D., Tennessee, 1973, Emeritus — cultural geography, resource conservation, historical geography
Dallas D. Rhodes, Ph.D., Syracuse, 1973, Emeritus — geomorphology, neotectonics, Holocene climate change

KENNESAW STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ANTHROPOLOGY
DATE FOUNDED: 2006
GRADUATE PROGRAM FOUNDED: N/A
DEGREES OFFERED: B.A. in Geography (online and traditional formats), B.S. in Geographic Information Science, Certificate in Geographic Information Sciences (online and traditional formats)
GRANTED TO DATE: 110 B.S. Geographic Information Science, 63 B.A. Geography
STUDENTS IN RESIDENCE: 98 Geographic Information Science, 79 Geography
CHAIR: Susan Kirkpatrick Smith, Ph.D.
DEPARTMENT ADMINSTRATIVE ASSISTANT: Melissa Sullivan
FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Matthew Mitchelson, Department of Geography & Anthropology, 402 Bartow Ave, MD 2203, Kennesaw State University, Kennesaw, GA, 30144. Telephone (470) 578-2373. Fax (470) 578-9147. E-mail: mmitch81@kennesaw.edu.
Department: http://ga.hss.kennesaw.edu/.
University: http://www.kennesaw.edu/.

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.A. in Geography (in online and traditional formats), a B.S.in Geographic Information Science (GISc), and a Certificate in Geographic Information Sciences. The Department is strongly focused on preparing students for a globalized world. Faculty members have worked with students in research and study abroad programs in Argentina, Belize, Bolivia, Chile, China, Ecuador, England, France, Greece, Italy, Peru, Russia, and Spain with new programs being developed. Faculty are also actively involved with undergraduate cross-disciplinary programs and the Ph.D. in International Conflict Management.

Students who enroll in the B.A. program immerse themselves in a multifaceted and inherently interdisciplinary field that requires them to have a competency in a foreign language, and an understanding of the fundamental concepts in human geography, physical geography, and geospatial techniques. The degree is tailored to each student based on his/her educational interests and career goals, with emphases on the traditional subfields and themes of the discipline such as cultural, political, economic, urban, and regional geography, physical and environmental geography, and the study of cities and suburbs. All BA students must complete either an internship or conduct research with a faculty member. Coursework is often complemented with both study abroad and faculty-led research opportunities. Courses in Geographic Information Systems can be taken by students seeking the B.A.

The B.S. in Geographic Information Science (GISc) has a strong professional component that prepares students for employment in the GIS field. Coursework integrates practical geospatial skills and technologies with scientific, technological and contextual knowledge. Students may select a concentration in either urban systems or environmental systems. The GISc degree also embeds an Information Technology Certificate, with coursework that complements the GIS and GIT knowledge students need for success in today's geospatial job market. All GISc majors and GIS Certificate students are required to complete a geospatial internship, co-op or practicum.

The Department currently has eleven full-time geography faculty members with strong research records and experience. They hold expertise in the broad fields of geography and environmental studies, including cultural geography, economic geography, GIS, remote sensing, urbanization, water resources, fluvial geomorphology, biogeography, soils, environmental health, and natural resource management.

ACADEMIC PLAN, ADMISSION REQUIREMENT, AND FINANCIAL AID: Semester System. Admission requirements: a completed undergraduate application for Admission to KSU submitted online, official scores on all required college entrance tests (typically SAT), official high school and college transcripts.

Financial Aid: student employment opportunities and need-based awards including Federal programs available.

FACULTY:
Nancy Hoalst-Pullen, Ph.D. University of Colorado at Boulder, 2008, Associate Professor & GIS Director — beer, forest dynamics, soils, watershed biogeochemistry, applications of GIS, geospatial education
Ulrike Ingram, M.A., Georgia State University, 2006, Lecturer — geotechnology
Paul McDaniel, Ph.D., University of North Carolina at Charlotte, 2013, Assistant Professor — urban geography, immigrant integration and receptivity, community change and engagement
Matt Mitchelson, Ph.D., University of Georgia, 2010, Associate Professor, Assistant Chair & Geography (B.A.) Coordinator — urban-economic and political geography, geographies of imprisonment, multi- and mixed-method research
Mark Patterson, Ph.D., University of Arizona, 1998, Professor & Environmental Studies Coordinator — GIS, remote sensing, natural resources
Jason Rhodes, Ph.D., University of Georgia, 2013, Visiting Assistant Professor — urban geography, landscape studies, political economy, social theory

Vanessa Slinger-Friedman, Ph.D., University of Florida, 2002, Associate Professor — cultural geography, natural resource management, tropical conservation and development, ecotourism, tropical agriculture, Latin America, the Caribbean, Sub-Saharan Africa, pedagogy

Garrett Smith, Ph.D., University of California at Davis, 1996, Associate Professor & Online Geography (B.A.) Coordinator — cultural & economic geography, forest resources

Bradley Suther, Ph.D., University of Georgia, 2013, Assistant Professor — fluvial geomorphology, soils, Quaternary studies, the southeastern United States

Jun Tu, Ph.D., Graduate Center of the City University of New York, 2008, Associate Professor — environmental geography, water resources, air pollution, GIS and spatial analysis, environmental health, urbanization, China

Matthew T. Waller, M.A., Georgia State University, 2010, M.Ed., University of Georgia, 1997, Lecturer — geographic literacy and education, cultural geography, development, aid, and structural adjustment, Sub-Saharan Africa

OGEECHEE TECHNICAL COLLEGE

GEOGRAPHIC INFORMATION SYSTEMS ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM
DEGREES OFFERED: Associate of Applied Science

FOR FURTHER INFORMATION WRITE TO: John Locke, GIS Instructor. One Joseph E. Kennedy Blvd., Statesboro, GA 30458. (912) 688-6035 jlocke@ogeecheetech.edu

PROGRAM DESCRIPTION:
The Geographic Information Systems (GIS) Technology Associate of Applied Science degree program prepares students for employment in a variety of GIS professional positions. Students will work for organizations utilizing GIS software and GPS equipment. Graduating students will apply their education in Mobile GIS, Internet Mapping, and Cartography, GIS in Agricultural Applications, and GIS in Local and County Government. Professional positions in GIS may include: GIS Technician, Planning Technician, GIS Analyst, Photogrammetry & Remote Sensing Technician, Natural Resource Management Technician, Data Entry Technician, Research Technician, and Sales & Marketing Technician. The program provides learning opportunities which introduce, develop, and reinforce academic and technical knowledge, skills and attitudes required for job acquisition, retention, and advancement. Additionally, the program provides opportunities to upgrade present knowledge and skills or retrain in GIS practices and software.

UNIVERSITY OF GEORGIA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1946
GRADUATE PROGRAM FOUNDED: 1951
DEGREES OFFERED: A.B., B.S., M.A., M.S., Ph.D, Certificates in GIScience and Atmospheric Sciences
GRANTED: 7/1/14-6/30/15: 19 Bachelors, 9 Masters, 6 Ph.D.
STUDENTS IN RESIDENCE: 25 Masters, 55 Ph.D.
HEAD: Thomas Mote
OFFICE MANAGER: Loretta Scott

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Undergraduate Coordinator (Fausto Sarmiento) or Graduate Coordinator (Xiaobai Yao), Department of Geography, University of Georgia, Athens, GA 30602-2502. Telephone: (706) 542-2856. Fax: (706) 542-2388. E-mail: geoggrad@uga.edu.
Internet: geography.uga.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers bachelors, masters, and doctoral degrees in Geography with specialization in physical and human geography and in GIScience. The department also offers a joint doctoral degree in Integrative Conservation and Geography. The department's strengths in physical geography are in the areas of climatology/meteorology, biogeography, geomorphology, Quaternary studies, and geoarchaeology; in techniques they are in photogrammetry, remote sensing, and GIS. The human geography program focuses on geographies of social justice, with substantive specialization in critical agri-food studies, race and racialization, climate and carbon governance, urban studies, urban political ecology, legal studies, international human rights, labor geography, globalization, and environmental justice.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: Students majoring in geography can work toward an A.B. or B.S. degree or can elect from a number of specialized tracks.

Graduate: Applicants for the M.A., M.S., and Ph.D. degrees must complete an application form online and pay an application fee. For application guidelines visit the Graduate School website (www.grad.uga.edu) or the Department of Geography website (geography.uga.edu/graduate/), or contact Amy Bellamy (geoggrad@uga.edu). The department administers graduate and undergraduate certificates in Geographic Information Science and Atmospheric Sciences. Approximately 30 teaching assistantships are awarded each year with a tuition waiver. Support is normally for two years at the master's level and four years at the doctoral level. Students with outstanding records may be eligible for competitive, university-wide fellowships or externally funded research assistantships.

FACULTY:

Joshua Barkan, Ph.D., Minnesota, 2006, Associate Professor — social theory, legal geography, economic geography, sovereignty and corporate globalization

Suzanne Pilaar Birch, Ph.D. Cambridge, 2012, Assistant Professor — Human paleoecology, biogeography, zooarchaeology, stable isotope ecology, climate change, landscape/environmental adaptation

Elgene Box, Ph.D., North Carolina, 1978, Professor — geographic modeling, ecology, vegetation, global change

George Brook, Ph.D., McMaster, 1976, Merle C. Prunty Jr. Professor — Quaternary studies, arid lands, geoarchaeology, geomorphology, karst

Andrew Grundstein, Ph.D., Delaware, 1999, Professor — climate and health, hydroclimatology, cryospheric studies

Andrew Herod, Ph.D., Rutgers, 1992, Distinguished Research Professor — labor geography, social theory, globalization, political economy, global production and destruction networks, qualitative methods, Australia, Africa, France

Nik Heynen, Ph.D., Indiana, 2002, Professor — urban political economy/ecology, social theory, inequality and social movements, ethnography

Steven Holloway, Ph.D., Wisconsin, 1993, Professor and Associate Head — urban, racial justice, labor and housing market inequalities, critical quantitative and mixed methods

John Knox, Ph.D., Wisconsin, 1996, Associate Professor — dynamics of weather and climate, geoscience education, atmospheric hazards, satellite remote sensing applications

Hilda Kurtz, Ph.D., Minnesota, 2000, Professor — critical agri-food studies, environmental justice, and social movements

David Leigh, Ph.D., Wisconsin, 1991, Professor — geomorphology, Quaternary studies, geoarcheology, environmental, soils

Marguerite Madden, Ph.D., Georgia, 1990, Professor and Director, CGR — GIS, remote sensing, landscape ecology

Deepak Mishra, Ph.D., Nebraska, 2006, Associate Professor — applications of remote sensing, GIS, and GPS to coastal environments

Thomas Mote, Ph.D., Nebraska, 1994, Distinguished Research Professor and Head — hydroclimatology, synoptic/satellite climatology, climate change, cryosphere

Lan Mu, Ph.D., California-Berkeley, 2002, Associate Professor — GIScience, spatial analysis and modeling, computational geometry

David Porinchu, Ph.D., UCLA, 2002, Associate Professor — biogeography, paleolimnology, paleoclimatology, water resources, climate change

Jennifer Rice, Ph.D., Arizona, 2009, Assistant Professor — urban political ecology, science studies, climate and carbon governance, politics of knowledge

Amy Ross, Ph.D., California-Berkeley, 1999, Associate Professor — political economy, human rights and wrongs, genocide, international institutions, social justice

Fausto Sarmiento, Ph.D., Georgia, 1996, Professor and Undergraduate Coordinator — mountain geography, biogeography, political ecology, Latin America

Gerald Shannon, Ph.D., Minnesota, 2013, Assistant Professor — food justice, social determinants of health, urban development, political geography, mixed methods research, GIS

Marshall Shepherd, Ph.D., Florida State, 1999, University of Georgia Athletic Association Distinguished Professor — urban climate, precipitation processes, satellite-based remote sensing, tropical weather hazards

Amy Trauger, Ph.D., Pennsylvania State, 2005, Associate Professor — food security, sustainability, feminist geography, cultural economy

Xiaobai Yao, Ph.D., SUNY-Buffalo, 2002, Professor and Graduate Coordinator — GIS, geospatial analysis and modeling, urban and transportation geography

HAWAII

UNIVERSITY OF HAWAII, MANOA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1927
GRADUATE PROGRAM FOUNDED: 1931
DEGREES OFFERED: B.A., M.A., Ph.D.
GRANTED 2014-2015: 18 B.A., 12 M.A., 4 Ph.D.
STUDENTS IN RESIDENCE: 50 B.A., 24 M.A., 20 Ph.D.
CHAIR: Hong Jiang
GRADUATE CHAIR: Reece Jones
UNDERGRADUATE CHAIR: Brian Szuster
DEPARTMENT SECRETARY: Judy Naumu

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department Secretary, Department of Geography, 2424 Maile Way, Saunders 445, University of Hawaii at Manoa, Honolulu, Hawaii 96822. Telephone (808) 956-8465. Fax (808) 956-3512.
E-mail: uhmgeog@hawaii.edu.
Internet: http://www.geography.hawaii.edu/

PROGRAMS AND RESEARCH FACILITIES: Programs of study lead to B.A., M.A., PhD. degrees in Geography. The department cooperates in graduate interdisciplinary certificate programs in: Resource Management; Ecology, Evolution, and Conservation Biology; International Cultural Studies; and other areas. The University of Hawaii's location offers natural advantages for studies of the peoples and lands of Asia and the Pacific. Faculty interests and supporting strengths of the University and the East-West Center provide opportunities for students to pursue interests in areas such as: environment (biogeography, climatology, hydrology, marine ecology), human geography (political, cultural, social, political ecology), and geographic technologies (GIS, remote sensing, cartography, field techniques). The department emphasizes fieldwork (both local and in the Asia-Pacific region) and the integrative nature of the discipline. Departmental research facilities include laboratories for: climate and eco-hydrology, geomorphology, long-term environmental change, cartography, GIS, and geo-environmental remote sensing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: The University is on the semester system and 37 credits in geography are required for the major. This includes 16 credits of required general geography courses, 12 credits in one of three streams (human, environmental, or geographic technologies) and 9 additional credits in upper division courses. There are no special admission requirements for the major and any student in good academic standing (2.0 or better GPA) is eligible.

GRADUATE: Students define their specialization in consultation with their adviser and advisory committees. The M.A. program includes a core program of seminars (7 credits), courses within the area of specialization (15 credits), research skills (3 credits) and a thesis. Ph.D. requirements include a core program of seminars (4 credits), courses within a defined area of specialization (minimum 15 credits), plus an approved sequence of advanced courses in research techniques (minimum 6 credits). Candidates must present a dissertation proposal at a department colloquium, pass written and oral comprehensive examinations, and defend a dissertation. Admission to the M.A. program requires a minimum grade point average of B (3.00 on a four-point scale) during the junior and senior years. Admission to the Ph.D. program requires a superior record in graduate work and evidence of research ability. Both M.A. and Ph.D. applicants must submit transcripts, GRE scores (aptitude tests only), and letters of appraisal from three referees (at least two academic). Available departmental financial aid includes teaching assistantships and tuition waiver awards. In addition, East-West Center Scholarships are available to Americans studying Asian or Pacific topics, as well as foreign students from Asian or Pacific nations. The application deadline for department assistantships is January 15, and November 1 for East-West Center Scholarships. Prospective students should contact faculty with compatible interests as early as possible to facilitate planning.

FACULTY:

David W. Beilman, Ph.D., UCLA, 2006, Associate Professor — biogeography, climate change, terrestrial ecosystems

Qi Chen, Ph.D., UC Berkeley, 2007, Associate Professor — remote sensing, GIS and applications in environmental science

Thomas W. Giambelluca, Ph.D., Hawaii, 1983, Professor — ecohydrology, climatology, climate change

Hong Jiang, Ph.D., Clark, 1997, Associate Professor — cultural geography of the environment, perception of nature, environmental ideology and politics, ideas of nature in Chinese thought

Reece M. Jones, Ph.D., Wisconsin at Madison, 2008, Associate Professor — political geography, borders, territory, sovereignty, South Asia

Camilo Mora, Ph.D., Windsor, 2004, Associate Professor — dynamics of marine populations, biodiversity in society and economic contexts

Mary Mostafanezhad, Ph.D., Hawaii, 2011, Assistant Professor — geography of consumption, cultural geography, volunteer tourism, Thailand

Alison Rieser, LL.M., Yale, 1990, Professor — political geography of oceans, oceanic legal histories, politics of marine science

Krisnawati Suryanata, Ph.D., UC Berkeley, 1994, Associate Professor — political economy of natural resources, agriculture and food, political ecology, community-based natural resource management, Indonesia

Ross A. Sutherland, Ph.D., Toronto, 1988, Professor — geomorphology, environmental contaminants, erosion, data analysis

Brian W. Szuster, Ph.D., Victoria (Canada), 2001, Associate Professor — environmental impact assessment, marine tourism, coastal management, Thailand

EMERITUS FACULTY:

Sen-dou Chang, Ph.D., Washington, 1961, Professor — China, regional development

Murray Chapman, Ph.D., Washington, 1970 — population (mobility), field methods, Melanesia

Roland Fuchs, Ph.D., Clark, 1959 — population, urbanization and development in Asia

Gary A. Fuller, Ph.D., Pennsylvania State, 1972 — population, geography of prophylaxis

Nancy D. Lewis, Ph.D., University of California, Berkeley, 1981 — human health, development, gender, human ecology, climate change, development

Brian J. Murton, Ph.D., Minnesota, 1970 — historical, cultural, tropical agrarian systems, New Zealand

Mark A. Ridgley, Ph.D., Pennsylvania State University, 1986 — Human, Environment Systems Analysis

Lyndon Wester, Ph.D., UCLA, 1975 — plant geography, Southeast Asia

Everett A. Wingert, Ph.D., Washington, 1973, Professor — cartography, remote sensing

COOPERATING AND AFFILIATE GRADUATE FACULTY:

Henry Diaz, Ph.D., Colorado, 1985 — climate change

Douglas Eisinger, Ph.D., Wales, 2005 — air quality, environmental policy analysis

Erik C. Franklin, Ph.D., Hawaii, 2012 — marine biology, geo-spatial modeling

Basil Gomez, D.Sc., University of Southampton, 2005 — fluvial geomorphology and sediment transport

Jefferson Fox, Ph.D., Wisconsin, 1983 — community-based management, land cover change, spatial information technology

Mark D. Merlin, Ph.D., Hawaii, 1979 — biogeography, natural history of Hawaii

Mark D. Needham, Ph.D., Colorado State, 2006 — recreation, nature-based tourism

IDAHO

UNIVERSITY OF IDAHO

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1970
GRADUATE PROGRAM FOUNDED: 1965
DEGREES OFFERED: B.S. Geography; M.S., Ph.D.
GRANTED 9/1/2009-8/31/2010: 8 Bachelors, 7 Masters, 8 Ph.D.s
STUDENTS IN RESIDENCE: 40 Majors, 18 Masters, 12 Ph.D.
DEPARTMENT CHAIR: Mickey Gunter, Acting Chair
DEPARTMENT ADMINISTRATIVE ASSISTANT: Loanne Meyer

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Administrative Assistant, Department of Geography, University of Idaho, McClure Hall 203, PO Box 443021, Moscow, Idaho 83844-3021. Telephone: (208) 885-6216. Fax: (208) 885-2855. E-mail:geog@uidaho.edu. Internet: www.uidaho.edu/sci/geography/.

PROGRAMS AND RESEARCH FACILITIES:

The department offers B.S., M.S. and Ph.D. programs in Geography, as well as a minor in Climate Change and a GIS Certificate. Areas of emphasis at both the undergraduate and graduate levels include climate science, glaciology, biophysical and human dimensions of climate change, hazards, political geography, economic geography, remote sensing, and GIS and spatial analysis. Our facilities include remote sensing and GIS teaching labs as well as research labs in climate science, ice core analysis, hazards, applications of remote sensing and GIS to wildland fire, landscape-scale carbon cycling and mitigation/adaptation of climate change. GIS instruction has been part of the program for over 30 years and the department now has a wide network of graduates working in the Pacific Northwest region who help with internship and employment placement opportunities. In addition to general education and geography requirements, geography students may take courses in the related colleges and programs at the University of Idaho, in fields such as forestry, agriculture, architecture, environmental science, water science, bioregional planning, engineering, law, and business. Washington State University (WSU) is only 8 miles away in Pullman, WA and students may take advantage of resources and coursework there in atmospheric science, environmental impact assessment, and environmental engineering.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The department offers a program leading to the degree of B.S. in Geography as well as a new minor in Climate Change and a well-established GIS certificate program. Students are not required to select an option, but may choose to focus their coursework to obtain depth in any of these areas: hazards and society, global & regional studies, Geographic Information Systems (GIS), remote sensing, weather and climate, biophysical and/or human aspects of climate change. The B.S. degree requires 120 total credits, of which 36 must be in Geography.

M.S. AND PH.D.: The department has expanded in recent years via four strategic hires focused around biophysical and human dimensions of climate change. These hires have complemented existing faculty expertise in climate, global and regional studies, remote sensing and GIS, spatial statistics, economic and political geography, and transportation. Prospective graduate students are encouraged to visit our department web page to learn more about faculty research interests. In addition to our core programs in Geography, faculty

advise students in University of Idaho interdisciplinary programs such as Environmental Science, Water Resources and Bioregional Planning. Students pursuing M.S. degrees may choose between a thesis-based and non-thesis professional option.

GIS CERTIFICATE: The GIS Certificate Program is designed to serve students and professionals either in a degree program or separate from a degree program. The certificate, established 10 years ago, requires 15 credits of GIS-related coursework. For more information about the program, please visit our web site.

Admissions to the Graduate College requires a minimum GPA of 3.0 overall, current (within 5 years) GRE scores, 3 letters of recommendation from professors and job supervisors evaluating applicant's ability to pursue graduate studies. Transcripts of all academic experience and general Graduate Record Examination (GREs) are required. Undergraduate degree need not be in geography, but students entering the program with degrees in other fields are required to take some additional coursework in Geography beyond the requirements for the M.S. or Ph.D. requirements.

Admissions to the Ph.D. Program requires a Master's degree, current GRE scores, a letter of interest stating research interest, three letters of reference, and transcripts. Part-time teaching assistantships, research assistantships, and fellowships are available along with other financial aid in the form of scholarships and work study.

FACULTY:

John Abatzoglou, Ph.D., University of California Irvine, 2009, Assistant Professor — weather and climate, climate change impacts on fire and water resources in the American West

Raymond Dezzani, Ph.D., California, Riverside, 1996, Associate Professor — spatial statistics, political and economic geography

Jeffrey A. Hicke, Ph.D., University of Colorado at Boulder, Colorado, 2000, Assistant Professor — global environmental change, interaction of climate, forests and disturbances such as wildfire and insect outbreaks

Karen Humes, Ph.D., University of Arizona, 1992, Professor and Chair — remote sensing/GIS applications in hydrology and natural resources

Haifeng Liao, Ph.D. University of Utah, 2014, Assistant Professor — Economic geography, regional development, globalization, China, urbanization, land use, land use-transportation interactions, spatial statistics

Steven Radil, Ph.D. University of Illinois, 2011, Assistant Professor — political geography, politics of conflict, spatial analysis

RESEARCH FACULTY:

Vladimir Aizen, Ph.D., Academy of Sciences, Moscow, Russia, 1988, Research Scientist — alpine hydrology, glaciology and glacio-climatology

Elena Aizen, Ph.D. Russian Academy of Sciences, Moscow, Russia, 1986 — climatology, glaciology

Michael Jennings, Ph.D., University of California Santa Barbara, Research Faculty — global biodiversity, climate change, biogeography

PROFESSOR EMERITUS:

Kang-tsung Chang
Allan Jokisaari
Gundars Rudzitis
Sam Scripter

ILLINOIS

AUGUSTANA COLLEGE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1949
DEGREES OFFERED: B.A.
GRANTED 8/25/14-8/20/15: 12 Majors, 11 Minors
STUDENTS IN RESIDENCE: 30 Majors, 8 Minors
CHAIR: Jennifer Burnham
DEPARTMENT ADMINISTRATIVE ASST: Gail Parsons

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, Augustana College, 639 38th St., Rock Island, Illinois 61201. Telephone (309) 794-7845. Fax (309) 794-7564. E-mail: jenniferburnham@augustana.edu. Internet: www.augustana.edu/geography.

GENERAL PROGRAM: The department functions as an integral part of the general curriculum of this 2,500-student liberal arts college and provides a solid major for students planning on graduate school in geography or planning. It serves annually over 600 students in 21 different courses plus independent study and field experience options. Upper level courses are offered thematically in physical, environmental, historical, urban geography and planning, regionally on Latin America and the Arctic, and in a sequence of methodological and techniques courses in cartography, geographic information systems and geographic research. The department is committed to cross-disciplinary links and is involved in instructional activities with the biology, business administration, education, English, geology, history, political science, and Spanish departments. Geography is one of the core departments in the college's environmental studies program with one of its faculty members serving as co-chair.

SPECIAL PROGRAMS: Department faculty participate in the college's multi-discipline study away programs in East Asia and Latin America, and conduct international research in northwest Greenland. A special geography summer field research course is held each year in the Upper Midwest, Pacific Northwest, or Gulf Coast region. Through its Community Academic Associates network, the department has an extensive set of internship placements in the local area, the Upper Mississippi Valley and the Chicago metropolitan area with municipal and regional planning offices, private consulting firms and government agencies such as the Army Corps of Engineers, Natural Resources Conservation Service, and Fish and Wildlife Service; faculty members also serve as commission members or do research for these agencies. Under special coordinated accelerated degree arrangements with Duke University and the University of Illinois, students may spend three years at Augustana and then two or three years at the university, earning a B.A. from Augustana and a Masters in Environmental Management or Forestry from Duke or a Masters in Landscape Architecture from the University of Illinois.

FACILITIES: The department is located in Swenson Hall of Geosciences which received a $2 million renovation and is equipped with smart classrooms and labs. The map library, a depository of both the U.S. Government and the U.S. Geological Survey, contains over 100,000 maps and approximately 6,000 remotely-sensed images. Computer facilities for quantitative and graphics work include PCs with ESRI GIS software and Adobe graphic packages. The geography department has a boat for research and teaching on the Mississippi River: a 29- foot passenger boat rated for 25 students that serves as a floating classroom with bathymetric and sediment-surveying capabilities. Augustana owns and manages three research field stations totaling 600 acres in northern Illinois. These sites contain

ecologically significant habitats that can be used for student and faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Flexible ten-week, three term system. Admission is competitive and selective. Admitted students excel in a challenging college prep curriculum and rank in the top quarter of high school class; the middle 50 per cent of students score between 24-29 on the ACT. Ninety per cent of students received financial assistance in the form of need-based or merit-based resources.

FACULTY:

Jennifer Burnham, Ph.D., Washington, 2007, Associate Professor and Chair — physical, soils, cartography, climate change, Arctic

Reuben Heine, Ph.D., Southern Illinois, 2006, Associate Professor — physical, GIS, water resources

Christopher Strunk, Minnesota, 2012, Assistant Professor — urban, economic, conservation, Latin America

Matthew Fockler, Montana State, 2014, Visiting Assistant Professor — cultural, historical geography of the U.S., land management

CHICAGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, SOCIOLOGY, HISTORY, AFRICAN-AMERICAN STUDIES, AND ANTHROPOLOGY
DATE FOUNDED: 1958
GRADUATE PROGRAM FOUNDED: 1970
DEGREES OFFERED: B.A. and M.A. in Geography, M.A. in Geography with GIS Concentration, Graduate Certificate in Geographic Information Systems, Graduate Certificate in Community Development
GRANTED 7/1/2015-5/31/2016: 1 Bachelors, 9 Masters, 2 Certificates
STUDENTS IN RESIDENCE: 2 Majors, 21 Masters
CHAIR: Gebeyehu Mulugeta
GEOGRAPHY COORDINATOR: Gebeyehu Mulugeta
DEPARTMENT ADMINISTRATIVE ASST: To Be Filled

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Gebeyehu Mulugeta (undergraduate) or Dr. Daniel Block (graduate), Chicago State University, Ninety-Fifth Street at King Drive, Chicago, Illinois 60628-1598. Telephone (773) 995-2186. Fax (773) 995-2030. Internet: http://www.csu.edu/gsea/geography/

PROGRAMS AND RESEARCH FACILITIES: The department offers a B.A. in Geography requiring completion of 33 hours in geography. Students may choose to concentrate in general geography, community development, environmental justice, GIS, or secondary teaching.

The flexible M.A. program in geography is designed for students interested in teaching, government, private employment, or further research. A six hour core forms the basis of both the basic M.A. degree and the M.A. in Geography with a Concentration in GIS. There are no language requirements. A thesis is required. Most graduate courses are offered at night.

The Department also offers Graduate Certificates in Geographic Information Systems and in Community Development, as well as undergraduate minors in Geography and Geographic Information Systems.

The Fredrick Blum Neighborhood Assistance Center, housed in Geography, is a multidisciplinary effort to mobilize the resources of the University to support community development projects. In addition to providing faculty with opportunities for involvement in instruction, research and consulting activities, the program creates learning experiences for both undergraduate and graduate students from disciplines across the University. Students in a variety of fields are able to assist in research and work with community groups. The NAC operates the Calumet Environmental Resource Center.

CSU's new academic library and the department's laboratory facilities are enhanced by the resources of the Chicago Metropolitan Area, which also serves as a source of extensive and varied urban field work and internship opportunities. The GIS laboratory is equipped with eighteen networked workstations and a data server. Applications residing on the computers include ArcGIS 10.3 and Extensions, ERDAS IMAGINE, IRISI, SPSS, and word processing and spread sheet programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: For admission requirements see catalog or contact undergraduate advisor.

GRADUATE: Admission requirements: (1) a Bachelor's degree with a grade average of B or better although promising students may be admitted conditionally with a slightly lower average and (2) fifteen hours of undergraduate work in geography, although conditional admission is sometimes possible with fewer hours. The University is on the semester system. Scholarships, assistantships, and loan and work-study programs are available. For information contact Dean of Arts and Sciences (773) 995-2339.

Student Internships are available at public agencies, civic organizations, and in private industry.

FACULTY:

Daniel Block, Ph.D., UCLA, 1997, Professor and Director of the Neighborhood Assistance Center — food systems, community development, medical, cartography, GIS

Tekleab Gala, Ph.D., Western Ontario, 2011, Assistant Professor of Geography — remote sensing, GIS, soils, medical

Gebeyehu Mulugeta, Ph.D., Michigan State, 1991, Professor of Geography and Chair, Department of Geography, Sociology, History, African-Americans Studies, and Anthropology — cartography, GIS, remote sensing, quantitative methods, Africa

ADJUNCT FACULTY:

Kari Burnett, Ph.D., Rutgers, Instructor — human, immigration

Margaret King, Ph.D., Illinois-Chicago, Instructor — human, urban

James Nazy, M.A., Chicago State, Instructor — human

EMERITI FACULTY:

William A. Peterman, Ph.D., Denver, 1972, Professor Emeritus — urban, planning, community development, environmental analysis

Irvin Roth, Ph.D., Syracuse, 1968, Professor Emeritus — economic, urban, India

DEPAUL UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1898
DEPARTMENT FOUNDED: 1948
DEGREES OFFERED: B.A., Certificate in GIS
GRANTED 9/1/14-8/31/15: 13 B.A. and 9 GIS Certificates
STUDENTS IN RESIDENCE: 46 B.A. and 33 GIS Certificates
CHAIR: Euan Hague, Ph.D.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: DePaul University, Department of Geography, 990 W. Fullerton Avenue, Suite 4300, Chicago, Illinois 60614.
Telephone (773) 325-7669.
E-mail: geography@depaul.edu.
Internet:http://las.depaul.edu/departments/geography/pages/default.aspx

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts in Geography is offered by DePaul's College of Liberal Arts and Social Sciences. It provides Geography majors with a choice of four concentrations: (1) Urban Development and Planning; (2) Nature-Society Studies; (3) GIS and Geotechnology; (4) Standard Geography. Students in the major can also pursue the Honors Program, double majors or other disciplinary minors. The Department offers a broad Geography curriculum, balancing courses in theory, thematic fields, methods, and technical areas of the discipline. Particular strengths are Urban Geography, GIS and Remote Sensing, Political Ecology, Environmental Geography, Cultural Geography, and Political Geography. Geography is also a key component of DePaul's interdisciplinary M.A. in Sustainable Urban Development which began in 2013-14. A close-knit Department of eight tenure-track faculty allows strong cooperation between faculty and students, and the possibility to design customized programs of instruction. The Department supports the Mu Alpha chapter of Gamma Theta Upsilon and was honored with the AAG's 2016 Award for Bachelors Program Excellence.

DePaul students may pursue their studies on either of the two campuses located in Chicago's Lincoln Park and the Loop. Programs in the Department of Geography are primarily offered on DePaul's Lincoln Park Campus, located in close proximity to Lake Michigan, Wrigley Field, and the "L" trains of the Chicago Transit Authority. The University has been aggressively improving its physical facilities having recently constructed a large library complex, a Science Quad, a 4-level fitness facility and new Student Center at the Lincoln Park Campus, and the multipurpose DePaul Center in the Loop campus. The growing collection of the DePaul University libraries includes over 750,000 volumes, 303,000 microform volumes, over 8,900 current serial subscriptions, and varied on-line and audiovisual collections. Access via I-SHARE on-line allows students to identify and access materials from 39 other colleges and universities in Illinois. In addition, current students, faculty, and staff have access to more than 880 electronic databases and subscription to over 6,000 journals. Our location in Chicago provides students a vast array of academic resources, such as the Newberry Library, and the libraries of the Art Institute, the Field Museum of Natural History and the Chicago History Museum, as well as several other large academic libraries. Furthermore, the city provides significant opportunities for student field work and Geography-related internships which complement academic studies at DePaul with practical experience.

The Department of Geography provides both basic and advanced training in geographic information systems (GIS) and remote sensing. The Department has been instrumental in introducing GIS across the University curriculum. In summer 2016 the Department of Geography opened a new, state of the art 18-terminal GIS Laboratory, a high-end facility geared to support students and faculty with interests in the areas of geospatial analysis and modeling, remote sensing, and cartographic design. This facility supports the Certificate Program in GIS, which was initiated in 1996.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: DePaul University operates on the quarter system. Admission is possible for any academic quarter. Admission requirements, university catalogues and program information are available through the Office of Admissions, College of Liberal Arts and Social Sciences, DePaul University, 2352 North Clifton Avenue, Chicago, Illinois 60614. Telephone: (773) 325-7310 or on the web at www.depaul.edu. Inquiries concerning financial aid should be directed to the Office of Financial Aid, DePaul University, 1 East Jackson Bvld, Suite 9000, Chicago, Illinois 60604-2287.

FACULTY:
Alec Brownlow, Ph.D., Clark, 2003, Associate Professor — urban environmental, political ecology, human-nature interaction, social theory
Winifred Curran, Ph.D., Clark, 2004, Associate Professor — urban, social, economic, gender
John Goldman, MS, Penn State, 1986, Instructor — meteorology, quantitative methods
Nandhini Gulasingham, MS, DePaul University, 2002, Instructor — GIS
Euan Hague, Ph.D., Syracuse, 1998, Professor and Chair — cultural, urban, historical, political
Sungsoon (Julie) Hwang, Ph.D., SUNY at Buffalo, 2005, Associate Professor — GIS, transportation, housing
Patrick McHaffie, Ph.D., Kentucky, 1992, Associate Professor — GIS, remote sensing, history of cartography, science studies, cultural
Heidi J. Nast, Ph.D., McGill, 1992, Professor, International Studies Program — cultural, urban, gender, sexuality, geographic thought, Africa (affiliated faculty)
Alex G. Papadopoulos, Ph.D., Chicago, 1993, Associate Professor — urban, political, European Union, Balkans
Maureen Sioh, Ph.D., University of British Columbia, 2000, Associate Professor — economic geography, development, environment, Southeast Asia
Heather Smith, MA, Columbia University (NY), 2000, Instructor — urban planning
Byungyun Yang, Ph.D., University of Georgia, 2011, Assistant Professor — GIS, remote sensing

STAFF:
Cassie Follett, MA, West Virginia University, 2016, GIS Coordinator

EASTERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOLOGY/GEOGRAPHY
DATE FOUNDED: 1895
DEGREES OFFERED: B.S. in Geology, B.S. in Geography, B.S. in Science Teacher Certification (Earth Science designation), B.S. in Social Science Teacher Certification (Geography designation), Professional Science Masters in GIS, M.S. Natural Science, and minors in Broadcast Meteorology, Earth Science, Geography, Geographic Information Sciences, and Geology
GRANTED 9/1/14 - 8/31/15: 14 in Geography; 7 in Geology
UNDERGRADUATE MAJORS: 61
CHAIR: James A. Davis
DEPARTMENTAL OFFICE MANAGER: Susan Kile

FOR CATALOG AND FURTHER INFORMATION WRITE: Department of Geology/Geography, 600 Lincoln Avenue, Eastern Illinois University, Charleston, Illinois 61920-6033.
Telephone (217) 581-2626.
E-mail: geoscience@www.eiu.edu.
Internet: www.eiu.edu/~geoscience.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geology/Geography in the College of Sciences offers the B.S. degree in Geology and the B.S. degree in Geography. Program options available in Geography include the Human Geography Option and Environmental/Physical Geography Option. Students must complete 36 semester hours of geography, earth science, geology or other

approved elective courses selected from their option menu in addition to 13 semester hours of required courses. Undergraduate minors are offered in Geology, Geography, Earth Science, and an interdisciplinary minor in Geographic Information Sciences. In addition, an Honors Program is offered to Geology and Geography majors who maintain a 3.5 cumulative grade-point average (on a 4-point scale).

The department also offers two teacher certification programs: B.S. in Science (Earth Science designation) and B.S. in Social Science (Geography designation), and participates in two interdisciplinary Master's programs: M.S. in Natural Sciences for Teachers (MSNS) and a Professional Science Masters in Geographic Information Sciences (PSM in GIS). Participants completing the B.S. in Science requirement will be certified to teach biological sciences, chemistry, earth sciences, and physics. Those who complete the B.S. in Social Science will be certified to teach economics, geography, history, political science, psychology, and sociology/anthropology. Both the B.S. in Science and MSNS, in addition to earth sciences, requires relevant courses in biological sciences, chemistry, and physics. The B.S. in Social Sciences, in addition to geography, requires relevant courses from economics, history, political science, psychology, and sociology/anthropology.

The Master of Science for Natural Science Teachers (MSNS) is offered with a choice of six concentrations: Biology, Chemistry, Earth Science, General Science, Physical Science, and Physics. The intent of the program is to develop a comprehensive background in science for graduates to be able to teach any of the above disciplines. A teaching certificate is the prerequisite to participate in the MSNS degree program. The PSM in GIS includes coursework in Biological Sciences, Business Administration, Geography, Earth Science, Political Science and Sociology. The PSM is a non-thesis master's program that requires a capstone internship experience.

Programs are enhanced by established departmental field programs, internships, independent studies, student/faculty collaborative research opportunities, scholarships, and honors programs. Student's academic experiences are enhanced by the unique departmental collaboration between geologists and geographers and faculty specialties in both disciplines. Field programs include introductory and advanced Earth Science Field Experience for Teachers in various regions of the United States, in addition to weekend or week-long trips during semester breaks. The department also offers faculty-led study abroad programs to Ecuador, Ireland/Scotland, Germany/Poland/Czech Republic/Austria and Turkey/Greece/Egypt.

Students in the Department of Geology/Geography have available several classroom and research laboratories including the Special Projects Computer Lab, Geographic Information Sciences Lab, Sedimentation and Stratigraphy Lab, Paleontology Lab, and Microscopy Lab. The Special Projects and GIS labs contain personal computers, printers and plotters and make use of ArcGIS, ENVI and Surfer along with other current relevant software. A dedicated server is maintained for faculty and students in the department. The department is located in the Physical Science Building, centrally located on a tree-shaded 320 acre campus. Eastern, situated in East Central Illinois in the city of Charleston (population 20,000), is primarily a residential campus with approximately 8,500 full-time students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Financial aid is available to qualified students through the Financial Aid Office. For information about programs in the Department of Geology and Geography, contact: Chair, Department of Geology/ Geography, Eastern Illinois University, Charleston, Illinois 61920. For information about admission requirements, contact: Office of Admissions, Eastern Illinois University, Charleston, Illinois 61920.

FACULTY

Diane M. Burns, Ph.D., Wyoming, 2004, Associate Professor of Geology — sedimentology, stratigraphy

Robert Cataneo, MSNS, Eastern Illinois, 2003, Instructor — weather/climate

Craig A. Chesner, Ph.D., Michigan Tech., 1988, Professor of Geology — petrology, volcanology

Michael W. Cornebise, Ph.D., Tennessee, 2003, Interim Associate Dean of the College of Sciences, Professor of Geography — population geography, cultural geography

Cameron D. Craig, M.A., Indiana State, 2002, Instructor — climatology, physical geography, atmospheric education.

James A. Davis, Ph.D., Kansas State, 2001, Chair, Associate Professor of Geography — human/economic geography, resources

Katherine Lewandowski, Ph.D., Ohio State, 2008, Associate Professor of Geology — Cenozoic climate change and paleoceanography, benthic foraminiferal micropaleontology, paleoecology, evolution, and stratigraphy, Geoscience education

Barry J. Kronenfeld, Ph.D., SUNY-Buffalo, 2004, Associate Professor of Geography — geographic information systems, historical U.S. landscape change, cartography

Christopher R. Laingen, Ph.D., Kansas State, 2009, Associate Professor of Geography — Use of Remote Sensing and GIS in Regional (Bio)geography, Rural Geography, and Agricultural Geography, Changing rural geographies of U.S. Midwest/Corn Belt/Heartland

James D. Riley, Ph.D., Illinois, Urbana-Champaign, 2012 Associate Professor of Geography — regional geomorphology, hydrology

Betty E. Smith, Ph.D., SUNY-Buffalo, 1994, Professor of Geography — urban systems, geographic information systems, Latin America

John P. Stimac, Ph.D., Oregon, 1996, Associate Professor of Geology — structural geology, tectonics

David C. Viertel, Ph.D., Texas State, 2008, Associate Professor of Geography — remote sensing, urban environments

ILLINOIS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY-GEOLOGY
DATE FOUNDED: 1857
DEGREES OFFERED: B.A., B.S. in Geography, B.S. in Geology, M.S. in Hydrogeology
GRANTED 2015: 29 Geography, 19 Geology, 8 Hydrogeology
MAJORS 2015: Geography-80, Geology-60, Hydrogeology-16
CHAIR: Dagmar Budikova
ADMINISTRATIVE ASST: Karen Dunton

FOR CATALOG AND FURTHER INFORMATION: Department of Geography-Geology, Illinois State University, Campus Box 4400, Normal, Illinois 61790-4400. Telephone (309) 438-7649.
Fax (309) 438-5310. E-mail: geo@ilstu.edu.
Internet: http://www.geo.ilstu.edu/.

PROGRAMS AND RESEARCH FACILITIES: Program fields correspond with faculty expertise that include: physical and applied climatology, paleoclimatology, human-environment interactions, geographic information systems, cartography, remote sensing, hydrology, and quantitative methods. Faculty members have regional strengths and many have conducted foreign, national, or local fieldwork.

The Institute of Geospatial Analysis & Mapping (GEOMAP) was dedicated in 2008. Its mission is to support research activities that aim to improve our understanding of complex interactions between human

and natural systems through the application of state-of-the-art geographic information sciences and technologies. Technical skills in cartography and GIS are especially popular among our students.
The department maintains 3 computer labs equipped with the latest hardware and software packages for current applications in physical and human geography.

The University Library has a substantial map collection and more than 1,600,000 volumes supplemented by a courier service to the University of Illinois Library and the Center for Research Libraries.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Geography majors are required to take 50 credit hours, ranging from introductory, regional requirements, thematic requirements, and electives. The major requires a capstone internship that provides an opportunity for the students to find employment prospects in geography and related fields. Four themes bridge the differences in faculty expertise and training. These themes are: Community and Regional Development, Environmental Science, Geographic Information Systems and Technology, and Human-Environment Interactions.

The Geography Teacher Certification major prepares students to become teachers in grades 6 through 12 and helps them gain certification as Geography and Social Science teachers. The requirements are similar to those in the non-teaching major with additional certification courses in the College of Education. 56 hours are required. Student teaching is part of the Teacher Certification requirement.

The department offers an interdisciplinary minor, Environmental Studies, which requires substantial course work in geography.

The department offers a Geography Minor which requires 21 hours of Geography classes.

FACULTY:
Tenley Banik, PhD., Vanderbilt University, 2015, Assistant Professor — mineralogy, petrology, volcanology
Amy Bloom, Ph.D., Utah, 2006, Instructional Assistant Professor — climate and environmental change, paleobiogeography, quaternary environments
Dagmar Budikova, Ph.D., Calgary, 2001, Department Chair, Professor — climatology, GIS, quantitative methods
James E. Day, Ph.D., Iowa, 1988, Professor — invertebrate paleontology, paleoecology
Matthew Himley, Ph.D., Syracuse, 2010, Assistant Professor — environmental, political, Latin America
John C. Kostelnick, Ph.D., Kansas, 2006, Associate Professor — GIS, cartography, cultural geography
David H. Malone, Ph.D., Wisconsin, 1994, University Professor — structural geology, stratigraphy
Eric Peterson, Ph.D., Missouri-Columbia, 2002, Professor — hydrogeology, karst, modeling
Catherine O'Reilly, Ph.D., Arizona, 2001, Associate Professor — limnology, biogeochemistry
Reecia Orzeck, Ph.D., Syracuse, 2007, Assistant Professor — human, cultural, Middle East
R.J. Rowley, Ph.D., Kansas, 2009, Assistant Professor — GIS, urban, human, cultural geography
William Shields, MS., Illinois State, 2001, Administrative-Professional — general education, computation lab specialist
Jonathan Thayn, Ph.D., Kansas, 2009, Assistant Professor — remote sensing, GIS, biogeography
Jill Freund Thomas, M.S., Idaho, 1986, Administrative Professional — geography-earth science education, cartography
Lisa Tranel, Ph.D., Virginia Tech, 2010, Assistant Professor — active tectonics and geomorphology
Henry J. Zintambila, Ph.D., Hawaii, 1982, Assistant Professor — climatology, Africa

EMERITI FACULTY:
Paul S. Anderson, Ph.D., Australian National, 1979
George Aspbury, Ph.D., Michigan, 1970
James R. Carter, Ph.D., Georgia, 1973
Robert G. Corbett, Ph.D., Michigan, 1964
E. Joan Miller, Ph.D., North Carolina, 1965
Robert S. Nelson, Ph.D., Iowa, 1970
Michael D. Sublett, Ph.D., Chicago, 1974
William D. Walters, Jr, Ph.D., Indiana, 1974

NORTHEASTERN ILLINOIS UNIVERTSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES
DATE FOUNDED: 1965
DEGREES OFFERED: B.A. Geography, B.A. Environmental Studies, M.A. Geography and Environmental Studies, Certificate in Geographic Information Science, Graduate Certificate in Geographic Information Science
GRANTED 9/1/14-8/31/15: 11 Geog B.A., 21 ES B.A., 7 M.A., 24 GIS Certificates
STUDENTS: 30 Geog B.A., 47 ES B.A., 69 GIS Certificates
CHAIR: Erick Howenstine, Ph.D.
ADMINISTRATIVE ASSISTANT: Michael Partipilo, M.S.

FOR CATALOG AND FURTHER INFORMATION: Department of Geography & Environmental Studies, Northeastern Illinois University, 5500 N. St. Louis, Chicago, IL 60625. Erick Howenstine, Ph.D. (773) 442-5647 E-Howenstine@neiu.edu.
Michael Partipilo, M.S. (773) 442-5640 ges@neiu.edu.
Website: www.neiu.edu/ges

PROGRAMS AND RESEARCH FACILITIES:
The Bachelor of Arts in Geography, in the College of Arts and Sciences is a traditional geography degree with an emphasis on urban planning, GIS, and environmental issues. It combines the conceptual disciplinary work within human and physical geography with the integrative tools of GIS, cartography, spatial statistics, and field methods. The Department of Geography & Environmental Studies (G&ES) also offers a B.A. in Environmental Studies, with emphasis on policy/planning or education/interpretation. A 33-hour Master's of Arts in Geography and Environmental Studies combines all these strengths and allows students to design their own research track. The Department introduced GIS to the curriculum in 1991 and now offers two certificates, one at the undergraduate and one at the graduate level, that are each comprised of five geospatial courses as well as statistics. A minor in Geography, one in Environmental Studies, and one in Geographic Information Science are also offered.

Northeastern is primarily a commuter university with nearly 10,000 students attending classes at four locations in the Chicagoland area. G&ES is housed on the University's main campus on Chicago's far north side. The main campus is set on 67 landscaped acres surrounded by a quiet residential community, with ample parking and access by public transportation. Northeastern was named sixth "Best Investment" in higher education nationwide by Newsweek, and its student body is ranked among the most diverse in the Midwest. The University's first residential housing unit will open on the main campus Fall 2016.

G&ES classes make use of the Chicago surroundings by way of field trips, service-learning, guest lecturers, and adjunct faculty drawn from the professional community. Geography students may undertake a carefully designed and supervised internship in urban planning, GIS, or other field in the student's career or research interest. There are also opportunities for student/faculty research projects and the department offers an annual guided Field Camp, abroad. Class sizes are small and all sections are taught by a core of five tenure track faculty members, a strong group of regular Instructors and active professionals who contribute to the rich curriculum. Students may also incorporate a limited number of courses from other departments into their degree, with advisor approval.

G&ES maintains two computer laboratories with student access 24/7. Technical courses are scheduled in "smart" classrooms and the department's more traditional classroom is also fitted with laptops for student in-class use. A number of courses are also available online.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Northeastern Illinois University uses a semester calendar, with six-week and 12-week summer sessions. Information for scholarships, federal and state assistance, loans, and employment is available on the web site: www.neiu.edu or by phone: (773) 583-4050.

FACULTY:
Judy Bock, Instructor, M.A. Geography & Environmental Studies, Northeastern Illinois University 1982 — geography education
Mark Boyle, Instructor, PhD. Human Geography expected 2016 University of St. Andrews — human geography
Thomas Brecheisen, Instructor, PhD. Civil Engineering expected 2016, University of Illinois at Chicago — environmental studies
Robyn Flakne, Instructor, PhD. Forestry, University of Minnesota, St. Paul 2000 — urban environment, forest resources
Dennis Grammenos, Associate Professor, PhD. Geography University of Illinois, Urbana-Champaign, 2000 — urban/social geography
Erick Howenstine, Professor and Chair, PhD. Geography University of Washington, 1989 — GIS, cartography
Melinda Storie, Assistant Professor and Graduate Coordinator, PhD. Natural Resources and Environmental Sciences 2008, University of Illinois, Urbana -Champaign — environmental education, environmental interpretation
Alex Peimer, Assistant Professor, PhD. Geography expected 2016, University of Illinois Urbana-Champaign — physical geography, water resources, environmental policy
Ting Liu, Assistant Professor and GIS Coordinator, PhD. Geography Florida State University 2014 — GIS, remote sensing, land change science

NORTHERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1968
GRADUATE PROGRAM FOUNDED: 1968
DEGREES OFFERED: B.A., B.S., M.S., Ph.D. in Geography, B.S. in Meteorology, B.S. Emphasis in Geomatics, Certificates in GIS/GIA
GRANTED: **9/1/14 - 8/31/15:** 38 Bachelors, 8 Masters, 1 Ph.D.
STUDENTS IN RESIDENCE: 100 Majors, 13 Masters, 11 Ph.D.
NOT IN RESIDENCE: 7 Masters, 2 Ph.D.
CHAIR: David Changnon
DEPARTMENT ADMINISTRATIVE ASST: Dawn Sibley

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Coordinator of Graduate Studies, Department of Geography, Davis Hall 118, Northern Illinois University, DeKalb, Illinois 60115. Telephone: (815) 753-6826. Fax (815) 753-6872.
Internet: www.geog.niu.edu

PROGRAMS AND RESEARCH FACILITIES: The B.S. and B.A. in Geography are structured around five fields of study: natural environmental systems, urban/economic systems, GI Science, area studies and geomatics (land surveying). Undergraduate and graduate Certificates in GIS can be earned online, or as part of degree program on campus. Degree-seeking students may participate in experiential learning in the department's labs and through internships, mentored research, and the department's programs in community-based geography. The B.S. program in geomatics meets State of Illinois educational requirements for the (NCEES) Surveyor In-Training exam.

The B.S. in Meteorology is a science-based, pre-professional program conforming to American Meteorological Society and National Weather Service standards. Mentored research and internships are available in a variety of weather analysis, applied meteorology and applied climatology fields. Students may take courses in broadcast media through the university's Communication Studies program. All students are required to complete three semesters of calculus, one year of calculus-based physics, one semester of statistics, and one semester of a programming language.

The Ph.D. and M.S. programs invite students with interests in biogeography, climatology, environmental systems, food systems, GI Science, hydrology, soils, weather-related hazards, health, urban, transportation or economic geography. The Master of Science program normally takes two years to complete; the Ph.D. requires 60 semester hours beyond the master's degree, including dissertation. All students must successfully complete core courses in the intellectual basis of modern geography, research methods, and quantitative methods, and successfully pass a comprehensive exam. Masters students may choose a 30 credit hour thesis track or a 36 credit hour non-thesis track. Doctoral students complete at least 6 semester hours in topical advanced course work, at least 6 hours of applications experience, at least 9 semester hours in cognate fields outside the department, and a dissertation.

The department maintains a variety of laboratories to support teaching and research in climatology, biogeography, GI Science, meteorology, remote sensing, soil science, and spatial analysis. Resources include: instrumentation for the analysis of soil physical and chemical properties, tree ring cores, and stream flow; field sampling tools; GPS and land surveying equipment; a fixed-site automated weather station and mobile weather stations; field photosynthesis system; soil sampling ATV; and germination/growth chamber. The department also operates the community's National Weather Service cooperative weather station.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Graduate: N.I.U. operates on a semester system. Admission as a graduate student requires a bachelor's degree from an accredited college or university, a GPA of at least 2.75 (4-point system), and approval of the Department of Geography.

Assistantships and fellowships are awarded for the 9-month academic year with a 12-month waiver of tuition. Applications for graduate assistantships and fellowships should be sent as early as possible; preferably before January 15. Students pursuing a specialization in mapping science or GIS may apply for the Richard E. Dahlberg Scholarship, awarded annually. Grants to support thesis/dissertation research are available through the William Morris Davis Memorial Research Fund. Research positions and internships providing work experience, income, and/or academic credit may also be available.

Students interested in funding supports should direct inquiries to the Coordinator of Graduate Studies. Admission decisions are based on a combination of GPA, verbal and quantitative scores on the Graduate Record Exam, a statement of research interest and purpose in pursuing the graduate degree, and at least two letters of evaluation.

FACULTY:

Walker S. Ashley, Ph.D., Georgia, 2005, Associate Professor — weather-related hazards, mesoscale meteorology/ climatology, environmental risk, GIS

David Changnon, Ph.D., Colorado State, 1991, Professor — applied climatology, climate impacts, climate variability and change

Xuwei Chen, Ph.D., Texas State, 2006, Associate Professor — transportation analysis and modeling, emergency evacuation, spatial analysis, geovisualization, GIS

Courtney M. Gallaher, Ph.D., Michigan State, 2012, Assistant Professor — sustainable food systems, environmental management, gender issues, Africa

Ryan James, Ph.D., UNC-Charlotte, 2012, Assistant Professor — economic, regional development, spatial models, urban planning

Michael E. Konen, Ph.D., Iowa State, 1999, Associate Professor — pedologic, geomorphic, and hydrologic processes

Andrew J. Krmenec, Ph.D., Indiana, 1983, Professor — spatial analysis, quantitative methods, economic

Wei Luo, Ph.D., Washington University, 1995, Professor — geomorphology (Earth and Mars), hydrology, GIS applications, Web-based technology in teaching

Thomas J. Pingel, Ph.D., U.C. Santa Barbara, 2010, Assistant Professor — GIS, geovisualization, LIDAR, spatial cognition

Jie Song, Ph.D., Delaware, 1995, Professor — boundary layer meteorology, micrometeorology, atmosphere-plant-soil interaction, numerical modeling

James Wilson, Ph.D., North Carolina, 1991, Associate Professor — public and environmental health, medical geography, hazards, GIS

LABORATORY PROFESSIONALS & INSTRUCTORS:

Kory Allred, PLS, M.S., Southern Illinois, 2006, Geomatics Instructor — Land Surveying, glacial landforms (Mars & Earth), GIS

Amanda Carew, B.S. Northern Illinois, 2007, Cartographer

Philip P. Young, M.S., Northern Illinois, 2012, GIS Project Director — geovisualization

ADJUNCT FACULTY:

James Angel, Ph.D., Illinois, 1996 — climatology

Sharon T. Ashley, Ph.D., Georgia, 2006 — climatology, hazards

Richard Boniak, Ph.D., SIU-Carbondale, 2007 — physical geography, soils, environmental management

Julie D. Jastrow, Ph.D., University of Illinois-Chicago, 1994 — soil biology

William P. Kleiman, M.S.Ed., Northern Illinois, 1986 — restoration ecology

Mary Njenga, Ph.D., University of Nairobi, 2013 — urban food systems

Michael T. Ritsche, M.S., Northern Illinois, 2001 — climatology, weather instrumentation

Mark W. Stelford, Ph.D., Northern Illinois, 2001 — soils, spatial analysis, agriculture

DEPARTMENT ASSOCIATES:

Robert B. Ridinger, Librarian, Subject Area Specialist

Gilbert Sebenste, NIU Staff Meteorologist

SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL RESOURCES

DATE FOUNDED: 1936

GRADUATE PROGRAM FOUNDED: 1936

DEGREES OFFERED: BS Geography and Environmental Resources (specializations in Environmental Sustainability, Geographic Information Science, and Climate and Water Resources); Undergraduate Minor in Geography and Environmental Resources; Undergraduate Minor in Sustainability; Undergraduate Minor in GIS; Undergraduate Interdisciplinary Minor in Environmental Studies; MS Geography and Environmental Resources (specializations in Environmental Sustainability, Geographic Information Science, and Climate and Water Resources); Graduate Certificate in Sustainability; Graduate Certificate in GIS; PhD in Environmental Resources and Policy

GRANTED (1/1/15-12/31/15): 14 Bachelors, 9 Masters

STUDENTS IN RESIDENCE (1/1/15-12/31/15): 36 Majors, 19 Masters

CHAIR: Justin Schoof

DEPARTMENT OFFICE ADMINISTRATOR: Laura Germann

UNDERGRADUATE AND GRADUATE PROGRAMS ASSISTANT: Jennie Absher

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Resources, Southern Illinois University Carbondale, 1000 Faner Drive, Room 4520, Carbondale, Illinois 62901. Telephone 618.536.3375. Fax 618.453.6465. Email geog@siu.edu. Internet http://cola.siu.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: Geography at SIU Carbondale focuses on environmental sustainability, geographic information science, climatology, and water resources at the undergraduate and graduate levels. Field work, computer-based analysis, and internships are prominent components of the integrated environmental problem-solving approach evident in both undergraduate and graduate programs. We have two computer labs: the Environmental GIS Laboratory and the Advanced Geospatial Analysis Laboratory, which give our students hands-on experience with current computing technology.

The computing environment at the SIU Carbondale campus provides easy access and 24-hour availability to all SIU Carbondale students. SIUs recently renovated Morris Library is one of the largest in North America with 2.6 million volumes, 200,000 e-books, 43,000 current periodicals and serials, 255,000 maps and 93,000 aerial photographs. We are located in Carbondale, a city of 26,000 residents that is 100 miles southeast of St. Louis. Our region is rugged and picturesque, with two state parks and five large recreational lakes within ten miles of campus. Students often conduct fieldwork in the nearby natural areas, including the Shawnee National Forest and federal and state wildlife refuges. The SIU Sustainability Council works to bring together and highlight campus programs and departments that work to make campus more sustainable while also conducting research and helping the campus community achieve sustainability. The SIU Carbondale Green Fund supports on-campus renewable energy, energy efficiency, and sustainability by providing funding for projects, student travel, and research. The town of Carbondale is also environmentally progressive with curb-side recycling, a

comprehensive public bus system, and three weekly farmers' markets. Overall, the Department of Geography and Environmental Resources at SIU Carbondale represents an academic unit within a diverse ecological and social setting.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, FINANCIAL AID: SIU Carbondale operates on a 16-week semester system, with additional sessions (4-week and 8-week) within the summer.

Undergraduate Program: Majors earn a Bachelor of Science degree in Geography and Environmental Resources studying the dynamic relationship between nature and society in the field and the computer laboratory as well as in the traditional classroom. Students choose among three specializations: Environmental Sustainability, Geographic Information Science (GIS), or Climate and Water Resources. A foundation of core courses helps students develop the analytic and research skills appropriate to their research interest. SIU Carbondale awards a wide range of scholarships based on financial need and/or academic performance. Additional scholarships are awarded by the Department of Geography and Environmental Resources.

Graduate Certificate Program: We currently offer two graduate certificates to help students build the skills that are currently in demand in the US job market. The Certificate in Sustainability addresses emerging needs for sustainable development, while the Certificate in GIS prepares students for the growing market in geospatial techniques.

Graduate Program: Students earn a Master of Science degree in Geography and Environmental Resources with a concentration in Environmental Sustainability, Geographic Information Science (GIS), or Climate and Water Resources. Submit applications by January 15 to ensure consideration for financial support for the Fall semester. Late applications will be considered for admission when possible. Visit http://gradschool.siu.edu/ for admissions details. Financial awards include teaching assistantships, research assistantships, and University fellowships. Assistantships are $12,564 for nine months plus tuition waiver. Limited summer financial assistance is available.

PhD Program in Environmental Resources and Policy: This interdisciplinary doctoral program features six concentrations in: Earth and Environmental Processes; Energy and Mineral Resources; Environmental Policy and Administration; Forestry, Agricultural and Rural Land Resources; GIS and Environmental Modeling; and Water Resources (http://info.erp.siu.edu/).

FACULTY:

Leslie A. Duram, Ph.D., Colorado, 1994, Professor — agricultural geography, organic agriculture, rural land use, watershed management

Trenton Ford, Ph.D., Texas A&M University, 2015, Assistant Professor — land-atmosphere interactions, drought prediction, North American hydroclimatoly, remote sensing hydrology

Ruopu Li, Ph.D., University of Nebraska, 2012, Assistant Professor — land use modeling, land suitability, lidar-derived hydrographic modeling, groundwater, climate change impacts on water resources

Jonathan Remo, Ph.D., Southern Illinois University Carbondale, 2008, Assistant Professor — fluvial geomorphology, river and floodplain management, natural hazards, hydraulic, geospatial, and hazard modeling

Justin Schoof, Ph.D., Indiana University, 2004, Professor and Chair — climate variability and change, climatological methods, applied climatology

Silvia Secchi, Ph.D., Iowa State University, 2000, Associate Professor — natural resource economics, economic and environmental modeling

Audrey Wagner, M.S., Southern Illinois University, 2011, Lecturer – meteorology and climatology

Guangxing Wang, Ph.D., University of Helsinki, Finland, 1996, Professor — remote sensing, spatial statistics, GIS, environmental modeling and simulation, land cover change

Julie Weinert, Ph.D. Ohio State University, 2008, Senior Lecturer — tourism geography, geography of ecotourism, feminist geography, geography of globalization, geography of development

SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1957
GRADUATE PROGRAM FOUNDED: 1966
DEGREES OFFERED: B.A. and B.S. in Geography, M.S. in Geographical Studies
DEGREES GRANTED 7/1/14-6/30/15: 37 Bachelors, 9 Masters
STUDENTS IN RESIDENCE: 102 Majors, 26 Masters
CHAIR: Gillian Acheson
DEPARTMENT SECRETARY: Cat Yurkovich

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Gillian Acheson, Chair, Department of Geography, Box 1459, Southern Illinois University Edwardsville, Edwardsville, Illinois 62026-1459. Telephone (618) 650-2090. Fax (618) 650-3591.
E-mail: gacheso@siue.edu. Internet: www.siue.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The diversity of faculty interests permits a variety of options for specializations at both the undergraduate and graduate levels. The department has a modern and well-equipped spatial analysis laboratory. Internships with various private and public organizations in the St. Louis, Missouri, metropolitan area may be available for undergraduate and graduate students.

The departmental faculty are engaged in ongoing research in the St. Louis metropolitan area, which provides the opportunity for independent projects in which geographic skills can be applied toward solving real world problems. Undergraduate and graduate students have the opportunity to work on faculty-led research projects. In addition, a number of internship opportunities are available in the local area. Courses are offered during the day and evenings, which permit students to combine their education with part-time or full-time jobs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The University is on the semester system with 120 semester hours required for graduation. The department offers a B.A. or B.S. program in Geography consisting of 36 semester hours. A minor or an Area of Specialization (18 hours) related to career goals is required. Inquiries regarding financial aid may be directed to the Financial Aid Office.

Graduate: The Department offers a 30-semester hour program leading to a Master of Science in Geographical Studies. A core of four courses (12 hours) is required which consists of courses in research methods, techniques, history and philosophy, and one seminar. With the approval of the department, up to 12 hours from related disciplines may be applied toward the degree program. Students frequently take courses in the Computer Science, Education, Environmental Studies, Computer Management Information Systems, Mathematics, or Public Administration programs. A variety of program options are possible

and course of study can be structured to reflect individual goals and objectives. Both a thesis and non-thesis option are available within the M.S. The non-thesis option requires 6 hours of additional coursework and the successful completion of written examinations and a directed research problem.

To be admitted to the program, students should have preparation in Geography or related areas and an undergraduate grade point average of 2.8 (on a 4.0 scale) or better. Applicants who do not meet these requirements may be considered on a case-by-case basis. The Department has graduate assistantships that provide a stipend and tuition waiver for qualified students on a competitive basis.

FULL AND PART-TIME FACULTY:
The Geography Department has 13 full-time faculty, one of whom is jointly appointed with the Environmental Sciences program:

Gillian Acheson, Ph.D., Texas A&M University, 2003, Associate Professor and Chair — geographic education, human geography, cultural landscape, population, social justice

Stacey R. Brown-Amilian, Ph.D., Oklahoma State University, 2011, Assistant Professor — human geography, medical geography, GIS, quantitative methods

Michael L. Grossman, Ph.D., University of Wisconsin, 2003, Associate Professor — physical geography, geomorphology, hydrology

James Hanlon, Ph.D., University of Kentucky, 2008, Associate Professor — urban, cultural, and historical geography, public and affordable housing, urban redevelopment, racial segregation and inequality, social theory

Mark L. Hildebrandt, Ph.D., Arizona State University, 1999, Associate Professor — climatology, meteorology, polar and alpine environments

Shunfu Hu, Ph.D., University of Georgia, 1998, Professor — GIS, multimedia mapping, remote sensing

Susan E. Hume, Ph.D., University of Oregon, 2005, Associate Professor — Ethnicity and race, immigrant and refugee adaptation, migration studies, cultural geography, urban geography, geographic education

Adriana E. Martinez, Ph.D., University of Oregon, 2013 Assistant Professor — fluvial geomorphology, physical geography, GIS

Francis O. Odemerho, Ph.D., Clark University, 1982, Associate Professor — physical geography, geomorphology, Africa

Randall S. Pearson, Ph.D., Indiana State University, 1993, Professor and Director of the Laboratory for Applied Spatial Analysis — remote sensing, GIS, physical geography

Wendy Shaw, Ph.D., University of Georgia, 1994, Professor and Associate Dean, College of Arts and Sciences — cultural, philosophy/history of geography, development, geographic education

Michael Shouse, Ph.D., University of Kentucky, 2014, Assistant Professor — biogeomorphology, biogeography, GIS, remote sensing

Bin Zhou, Ph.D., University of Georgia, 1995, Professor — economic and urban geography, quantitative techniques, Asia

SOUTHWESTERN ILLINOIS COLLEGE

DEPARTMENT OF GEOGRAPHY, HISTORY, AND POLITICAL SCIENCE
DEGREES OFFERED: A.S. with a concentration in Geography
CHAIR: Carolyn Myers

FOR FURTHER INFORMATION WRITE TO: Jeff Arnold, Southwestern Illinois College, Department of Geography, History, and Political Science, 2500 Carlyle Rd., Belleville, Illinois 62221-5899. Telephone (618) 235-2700, ext. 5412. Fax (618) 235-1578. Internet: www.swic.edu

COURSES OFFERED: World Regional Geography, Introduction to Weather and Climate, GIS I, GIS II, Economic Geography, Field Course: Travel/Study Tour, Regional: North America

MATRICULATION AGREEMENTS WITH FOUR-YEAR COLLEGES/UNIVERSITIES: The State Universities of Illinois.

FACULTY:
Jeff Arnold

PART-TIME FACULTY:
R. Lynn Bradley

UNIVERSITY OF ILLINOIS

DEPARTMENT OF GEOGRAPHY and GEOGRAPHIC INFORMATION SCIENCE
DATE FOUNDED: 1945
GRADUATE PROGRAM FOUNDED: 1950
DEGREES OFFERED: B.A., M.A., M.S., Ph.D., PSM in GIS
GRANTED 9/1/14-8/31/15: 10 Bachelors, 4 Masters, 3 Ph.D.
STUDENTS IN RESIDENCE: 6 Masters, 28 Ph.D.
DEPARTMENT HEAD: Sara L. McLafferty
DEPARTMENT ADMINISTRATIVE ASST: Susan Etter

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Director, Department of Geography and Geographic Information Science, 255 Computing Applications Building, University of Illinois, 605 E. Springfield Ave., Champaign, Illinois 61820. Telephone: (217) 333-1880. E-mail: geograph@illinois.edu. Internet: www.geog.illinois.edu.

PROGRAMS AND RESEARCH FACILITIES: The department is organized into four areas of specialization for training of graduate students: 1) Geographic Information Science including space-time GIS, remote sensing, computational GIS and cyberinfrastructure, and applications of GIS to geographic problems; 2) River, Watershed and Landscape Dynamics concentrating on fluvial geomorphology, watershed hydrology, ecohydrology, and landscape modeling; 3) Society, Space and Environments concentrating on urban geography, development geography, politics of the environment, geographies of policing, transportation and mobilities, and social dimensions of environmental policy; and 4) Cities and Metropolitan Areas with emphases in urban health and quality of life, urban governance and politics, race, class, and city policing, critical studies of urban transportation and mobilities, globalization, neoliberalization and the city. Strong support for research is also provided through the various area centers (African, East Asian and Pacific, European Union, Latin

American and Caribbean, South Asia and Middle Eastern, Russian, East European and Eurasian).

Professional Science Master's in GIS program—The PSM combines scientific and professional training in GIS and Business to prepare students for careers with businesses that use and develop geospatial technologies. Students build a flexible, cross-disciplinary expertise around a strong Geographic Information Science core, while acquiring business knowledge and professional skills. The business curriculum includes technology management, marketing, entrepreneurship, project and/or project management and finance. PSM students typically complete the program in sixteen-months, consisting of three full-time semesters and a summer internship..-Students in this program may not hold assistantships or other tuition and fee waiver-generating appointments.

Departmental facilities include an instructional GIS laboratory with state-of-the-art hardware and a variety of software including ArcGIS, ERDAS, ENVI, and spatial statistical software. The department also has an Earth materials laboratory for soil and fluvial analysis. The department is home to several specialized research centers:1) the Regional Economics Applications Laboratory, a cooperative venture between the University of Illinois and the Federal Reserve Bank in Chicago, focusing on the development and use of analytical models for urban and regional forecasting and economic problem solving; 2) the CyberGIS Center for Advanced Digital and Spatial Studies, which was established as a partnership among several units on campus, and focuses on computationally intensive spatial analysis and modeling, high-performance and collaborative GIS, and cyberinfrastructure-based geospatial problem-solving environments and applications; 3) the Social Dimensions of Environmental Policy Initiative which aims to improve management of the earth's environmental through research on social and policy dimensions of sustainability; 4) the Global Environmental Analysis and Remote Sensing (GEARS) Laboratory that addresses the impacts of climate change and land use/land cover change on vegetated ecosystems using remote sensing. Other research facilities on campus include the largest publicly supported university library in the United States. The Map and Geography Library contains an excellent collection of monographs and journals and one of the largest map collections in the country. There is also access to the National Center for Super Computing Applications, and the department has close research and teaching ties to the Illinois State Geological, Natural History, and Water Surveys and their analytical facilities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester systems. Minimum standard for admission to the Masters program is a B average, higher for the Ph.D. program. Scores from the Graduate Record Examination must be submitted, along with three letters of recommendation. Teaching assistantships, research assistantships and several Graduate College and departmental fellowships are available. Currently, one-half time nine-month appointments for assistants carry a minimum stipend of about $16281plus remission of tuition. Nearly all resident graduate students, other than PSM students, are supported by fellowships, scholarships, and assistantships.

FACULTY:

Thomas J. Bassett, Ph.D., California-Berkeley, 1984, Professor — African agrarian systems, political ecology, agriculture development and socio-cultural change, history of cartography

James Best, Ph.D., London, 1985, Professor — process sedimentology, flow-sediment interactions

Trevor Birkenholtz, Ph.D., The Ohio State University, 2007, Associate Professor — political ecology, development, social theory, nature-society relations, vulnerability, South Asia, water resources

Julie Cidell, Ph.D., Minnesota, 2003, Associate Professor — transportation, GIS, economic geography, urban political ecology, urban sustainability

Piotr Cienciala, Ph.D., University of British Columbia, 2015, Assistant Professor — Ecogeomorphology and echohydraulics, impact of land use and climate change on streams, river and watershed conservation

Jonathan Greenberg, Ph.D., California-Davis, 2004, Assistant Professor — remote sensing, landscape ecology, vegetation-climate interactions

Brian J. Jefferson, Ph.D., New School for Social Research, 2013, Assistant Professor — urban geography, carceral geography and critical social theory

Shakil Kashem, Ph.D., University of Illinois, 2015, Teaching Assistant Professor — GIS, environmental policy and planning, disaster risk management, urban growth modeling

Ezekiel Kalipeni, Ph.D., North Carolina, Chapel Hill, 1986, Professor — environmental and resource issues, population, migration, health care, Africa

Mei-Po Kwan, Ph.D., University of California, Santa Barbara, 1994, Professor — environmental health, mobility, urban/transport geography, GIScience, ICT

Sara L. McLafferty, Ph.D., Iowa, 1979, Professor and Head — geography of health, spatial analysis, urban geography, GIS

Bruce L. Rhoads, Ph.D., Arizona State, 1986, Professor — fluvial geomorphology, environmental management, stream restoration, philosophy of geomorphology

Jesse Ribot, Ph.D., California-Berkeley, 1989, Professor — environmental policy, local government, rural representation, distributional equity, social vulnerability

Murugesu Sivapalan, Ph.D., Princeton, 1986, Professor — watershed hydrology, runoff processes, chemical and biological processes in water quality

Shaowen Wang, Ph.D., Iowa, 2004, Professor and Director, CyberInfrastructure and Geospatial Information Laboratory, Senior Research Scientist-NCSA — cyberinfrastructure, geographic information science, large-scale geospatial problem solving

David Wilson, Ph.D., Rutgers, 1985, Professor — urban, social theory, political, neighborhood dynamics

EMERITI FACULTY:

Bruce M. Hannon, Ph.D., Illinois, 1970, Professor Emeritus — energy use and conservation, environmental planning, ecological modeling

Geoffrey J.D. Hewings, Ph.D., Washington, 1969, Professor Emeritus and Director, Regional Economics Applications Laboratory — regional science, methods of urban and regional analysis, regional economic models and forecasting

John A. Jakle, Ph.D., Indiana, 1967, Professor Emeritus — historical, cultural, urban social geography, American landscape

John Thompson, Ph.D., Stanford, 1958, Professor Emeritus — cultural, historical, Latin America, wetlands drainage history

Colin E. Thorn, Ph.D., Colorado, 1974, Professor Emeritus — alpine and periglacial geomorphology, philosophy and theory of geomorphology

DEPARTMENTAL AFFILIATES:

Paul F. Diehl, Ph.D., U. Michigan, 1983, Professor, Political Science — war and peace, international organizations, ethnic conflict

Brian Dill, Ph.D., U. of Minnesota, 2007, Associate Professor — development, political sociology, globalization, sustainability, renewable energy

Zsusza Gille, Ph.D., California-Santa Cruz, 1999, Associate Professor, Sociology — environmental sociology, sociology of knowledge, globalization

Jenny M. Johnson, M.S., Illinois, 1985, Map and Geography Librarian and Associate Professor of Library Administration — maps, journals, and other library/geography issues

Faranak Miraftab, Ph.D., Berkeley, 1995, Professor, Urban and Regional Planning — social aspects of urban development

Marilyn O'Hara, Ph.D., Florida-Gainesville, 1995, Clinical Associate Professor, Veterinary Diagnostic Laboratory, Veterinary Medicine — GIS, cartography, medical geography

Gary Parker, Ph.D., Minnesota, 1974, Professor, Civil Engineering and Geology — river morphodynamics, turbidity flows, alluvial processes

Surangi Punyasena, Ph.D., Chicago, Assistant Professor, Plant Biology — ecology, evolution, conservation

Gillen D'Arcy Wood, Ph.D., Columbia University, 2000, Professor — Environmental humanities, climate change, sustainability

DEPARTMENTAL ADJUNCTS:

James R. Angel, Ph.D., Illinois, 1996, Professional Scientist and Illinois State Climatologist, Illinois State Water Survey — applied climatology, hydroclimatology, statistics, climate change and climate-product delivery systems

Richard C. Berg, Ph.D., Illinois, 1979, Senior Geologist, Illinois State Geological Survey Interim Director, Geologic Mapping Program — quaternary studies, groundwater protection, mapping techniques

Ashwini Chhatre, Ph.D, Duke, 2006, Senior Research Fellow and Visiting Professor, Indian School of Business — Environmental politics, geography of south Asia, political science

Charles Ehlschlaeger, Ph.D., California Santa Barbara, 1998 — environmental modeling

Ulrike Gerhard, Ph.D., 2005, Universitat Wurzberg, Chair of Human Geography of North America, Heidelberg University — urban developments and discourses, urban inequalities, global cities, comparative perspectives, interdisciplinary approaches, North American cities

Donald Wade Jones, Ph.D., Chicago — risk management, infrastructure productivity and benefit estimation, transportation demand and fatality forecasting

James Westervelt, Ph.D., Illinois, 1996, Research Scientist, Construction Engineering Research Laboratory — ecological modeling, GIS, urban planning

WESTERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1917
GRADUATE PROGRAM FOUNDED: 1947
DEGREES OFFERED: B.S. Geography and GIS, B.S. Meteorology, M.A. Geography
GRANTED 7/1/15-5/16/16: 18 Bachelors, 6 Masters
STUDENTS IN RESIDENCE: 50 Undergraduate, 18 Graduate
NOT IN RESIDENCE: 3 Masters
CHAIR: Samuel Thompson
DEPARTMENT ADMINISTRATIVE ASST: Deborah Lutz

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Samuel Thompson, Chair, Department of Geography, Western Illinois University, 1 University Cir., Macomb, Illinois 61455-1390. Telephone (309) 298-1648. Fax (309) 298-3003.
E-mail: geography@wiu.edu. Internet: www.wiu.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The department offers three options within its M.A. program: thesis, applied project, and professional plan. Each of these programs provides students with a degree of flexibility. Only two core courses are common to each program. All other aspects of the program are elective, and can be tailored to suit individual objectives. The thesis option is intended for those who plan to enter a doctoral program and/or pursue careers in research. The applied project option is designed to give students practical real-world work experience on a project that may involve an internship. Finally, the professional plan serves practicing professionals and those about to enter the workplace. Students in all programs must submit a proposal for their final product (thesis, applied project or professional plan) and defend the results of their undertaking before a three-member faculty committee.

Department facilities are housed in Tillman Hall and include office space for all full-time graduate students; two GIS labs with more than 60 networked machines running ESRI GIS software and ERDAS Imagine; a County GIS Center responsible for all GIS analysis for the City of Macomb and McDonough County; meteorology laboratory with Linux computers, weather station and weather radar.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: The department offers Bachelor of Science degrees in Geography & GIS and Meteorology as well as minors in Geography, Weather and Climate, and GIS. The Geography degree includes emphases in geospatial, cultural or physical geography. The Meteorology degree is designed to meet the NWS and AMS curricular requirements.

GRADUATE: Admission requires that the applicant have a Bachelor's degree from an accredited institution and an overall grade-point average of at least 2.75 (on a 4-point scale), or a grade-point of at least 3.0 for the last two years of undergraduate work. Applicants should have completed at least 24 semester hours of Geography. Students who lack preparation in basic cartographic techniques and/or basic quantitative analysis techniques are required to complete coursework as deficiencies. Students with deficiencies may elect to—and are strongly encouraged to—complete deficiencies prior to beginning the program. Graduate assistantships are available. Assistants receive monthly stipends and their tuition charges are waived. The GRE is highly recommended.

FACULTY:

Marcus Buker, Ph.D., Wisconsin, 2004, Associate Professor — Advanced meteorology

Jongnam Choi, Ph.D., Georgia, 2001, Professor — climatology, satellite meteorology, biogeography

Yongxin Deng, Ph.D., Southern California, 2005, Associate Professor — GIS, soils, conservation, world regional

Sunita George, Ph.D., Georgia, 1999, Associate Professor — World regional, population, women studies

Raymond Greene, Ph.D., Georgia, 2000, Associate Professor — GIS, quantitative methods, Africa

Redina Herman, Ph.D., Illinois, 2003, Associate Professor — Advanced meteorology

Ranbir Kang, Ph.D., Oklahoma State, 2005, Associate Professor — Physical Geography, GIS

Fuyuan Liang, Ph.D., Georgia 2008, Associate Professor — Pleistocene geomorphology, physical, remote sensing

Christopher D. Merrett, PhD., Iowa, 1994, Professor and Director, Illinois Institute for Rural Affairs — geographic thought, political geography, Canada and the United States

Susan Romano, Ph.D., Southern Illinois University-Carbondale, 2006, Associate Professor, Joint appointment with Biological Sciences — GIS

Christopher J. Sutton, Ph.D., Denver, 1995, Professor — urban, cartography

Samuel Thompson, Ph.D., Akron, 2001, Professor — planning, population, Africa

INDIANA

BALL STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1965
DEGREES OFFERED: B.A., B.S., M.S.
GRANTED 07/01/15 – 06/30/16: 32 Bachelors
MAJORS: 125 Majors, 9 Masters
CHAIR: Kevin Turcotte
DEPARTMENT ADMINISTRATIVE COORDINATOR:
Teresa Wilson

FOR CATALOG INFORMATION WRITE TO: Kevin Turcotte, Ball State University, Geography, Muncie, Indiana 47306-0470. Telephone (765) 285-1776. Fax (765) 285-2351.
E-mail: turk@bsu.edu.
World Wide Web: http://www.bsu.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:
Programs: The Department of Geography offers both undergraduate and graduate programs that integrate education and technical training for purposes of analyzing space and time from a geographic perspective. Undergraduate programs in human geography, travel/tourism, GIScience and meteorology/climatology lead to B.A. or B.S. degrees, or to one of four minors in geography for students majoring in peripheral fields. M.S. degree emphasis is typically either GIScience or Applied Atmospheric Sciences, although flexibility exists to prepare students for a variety of positions in industry, business, education, and government.

Faculty expertise is found within the areas of cultural-historical geography, urban geography, political geography, geographic education, tourism, cartography, remote sensing/GIS, applied meteorology and climatology, and environmental hazards. Regional specializations include Europe and Russia, South and East Asia, and North America.

Research Facilities: The Department of Geography is housed in the Cooper Science Building with excellent facilities for research and grant/contract work. A staff cartographer is also available. Facilities include labs for GIScience and meteorology/climatology.

The Geography Department houses the GIScience Teaching and Learning Lab which consist of two spaces dedicated to teaching and research in the GISciences. This teaching space accommodates up to 30 students and provides an environment especially conducive to collaborative methodologies and active learning. Each student has updated desktop computers with access to the latest versions of GIS, remote sensing, and other geospatial software packages that are part of the GIScience curriculum at Ball State. The research space accommodates 12-14 people and provides an opportunity for interdisciplinary and/or specialized research using the tools of GIScience. The space features 12 high-end customizable workstations with access to all the GIScience software available in the teaching space. These labs are open to all Geography majors and students enrolled in departmental courses. Ball State University has site licenses for ESRI, ERDAS Imagine and Adobe software.

The department also houses the BSU Meteorology and Climatology Laboratory, which serves a focal point for the analysis of real-time meteorological and climatological data. Primary operations of the weather station include the collection of data through real-time weather observations, the compilation and summarization of weather data, the communication of severe weather information to broadcast media and general public, and the development of both short-and long-term weather forecasts. The BSU Meteorology and Climatology Laboratory serves as the center of the operations for the Ball State Storm Chase Team, which provides real-time field observations of severe weather in central Indiana in support of National Weather Service and local emergency management severe weather operations.
Research at Ball State University is also supported through the Alexander M. Bracken Library which offers convenient access to more than 1.5 million books, periodicals, microforms, audiovisual materials, microcomputer software, government publications, manuscripts, archival records, and electronic databases. The Bracken Library is a depository for over 145,000 maps from the U.S. Geological Survey, U.S. Defense Mapping Agency, U.S. National Ocean Service, and Indiana Geological Survey. Additional materials not directly available from Bracken Library may be obtained through Interlibrary Loan (ILL).

Ball State University is located in Muncie (population 67,000), Indiana, situated within an agricultural region consisting of small towns in close proximity to the Great Lakes and the metropolitan area of Indianapolis (population 1.5 million). These physical and cultural surroundings offer a wide variety of settings for geographic research. Muncie itself (also known as "Middletown, USA") has been the focus of well-known cultural and social research since the 1920s which has popularized the city as *the* "representative" American community.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Ball State University operates on a semester system. There are two five-week summer sessions and a single ten-week summer semester.

Academic Plan - Undergraduate: The undergraduate Geography program at Ball State University offers four different options within the major, each one encouraging students to develop analytical skills in their own particular area(s) of interest.

Option 1. Human Geography. This concentration is particularly attractive to students who desire a broad liberal arts background with emphasis on regional studies and geographic methodologies and who seek careers in education, government, or business at local, state, national, and international levels.

Option 2. Travel and Tourism. This concentration offers students broad knowledge, analytical skills, and practical experience that are beneficial for successful careers in the travel and tourism industry. This sequence of specialized courses addresses spatial, organizational, social, and economic aspects of travel and tourism growth and development, regions, and the interaction between the tourist and the destination.

Option 3. GIScience. This concentration is a technical specialization for students interested in solving social and environmental problems through advanced spatial information technology. Students learn how to visualize information in ways that reveal relationships, patterns, and trends by using computer software for cartography, remote sensing, and Geographic Information Systems (GIS).

Option 4. Meteorology and Climatology. This concentration is designed for students seeking careers in meteorology and climatology, or professions strongly connected to weather and climate. While developing a solid understanding of the theory of atmospheric behavior (dynamics and thermodynamics) is a principal objective of the program, we are also strongly focused on the application of that knowledge to solve problems in a variety of applied settings. Two separate tracks and a minor are offered to address a variety of intended career directions. The *General Track* is provided for students interested in positions where a general knowledge of operational meteorology and climatology is of value in satisfying primary task objectives. Examples include emergency management, environmental analysis, and transportation planning. The *Professional Meteorologist Track* has been designed to meet Federal Civil Service requirements

(GS-1340) for employment with the National Weather Service, and to qualify students for the American Meteorological Society (AMS) Certified Broadcast Meteorologist (CBM) title. The *Minor in Meteorology and Climatology for Weathercasters* provides students the backgrounds necessary to effectively communicate weather information to the public, in many cases through the broadcast media. Students that wish to pursue careers as broadcast meteorologists have the option to complete either the Professional Meteorologist Track, which qualifies them for the AMS CBM program, or the Minor in Meteorological and Climatology, that prepares them to meet National Weather Association (NWA) Broadcast Seal of Approval qualifications. A variety of extra-curricular activities in support of the Meteorology and Climatology option are available for both undergraduate and graduate students. These include the Ball State Storm Chase Team, the BSU Wx Challenge team, the Central Indiana Chapter of the National Weather Association, and participation in regional and national meteorology, climatology, and geography conferences.

The department also offers minors in human geography, travel and tourism, meteorology and climatology, and GIScience.

Academic Plan - Graduate: Specialized M.S. programs in GIScience and Applied Atmospheric Sciences apply to state-of-the-art technologies such as remote sensing, GIS, and advanced cartographic methods in various sub-disciplines of geography and allied sciences. A set of core courses in geographic theory (history and philosophy, research methods, quantitative methods) and a thesis project are requirements of both M.S. programs.

GIScience Emphasis. The GIScience emphasis provides advanced education and training in the area of spatial analysis, with intensive studies in cartography, remote sensing, and GIS. Among the essential components of the program are theory, research methods, and application development. To fulfill this goal, practical experience obtained from internships and field research is integrated into the formal curriculum. A wide range of courses are available to meet the student's specific interests. The courses range from advanced cartography, remote sensing, and GIS methods of analysis to designing customized interfaces for modeling and/or viewing purposes. Students can choose to specialize in one of the technical areas or all three. Thesis research topics can be in human or physical geography.

Applied Atmospheric Science Emphasis. The Applied Atmospheric Science emphasis is designed to meet the educational needs of students with strong interests in climatology, weather analysis and forecasting, severe local storms, climate dynamics related to severe local storm environments, and/or mitigation of severe weather in an emergency managements setting.

Graduate Admission Requirements: All successful applicants must first meet the requirements of the Graduate School, then be accepted for graduate work by the Department of Geography. Separate application packets are required for the Graduate School and the department. The department application packet must include GRE scores, transcripts of all previous undergraduate and graduate coursework, three letters of reference, and a carefully constructed statement of the student's research interests.

Financial Aid: There are several research assistantships available that provide full-tuition remission and a stipend. Students receiving stipends provide 20 hours of service per week.

FACULTY:

Christopher Airriess, Ph.D., Kentucky, 1989, Professor — development, cultural landscapes, ethnicity, Southeast and East Asia

Reuben Allen, Ph.D. Indiana State University 2015, Instructor — physical geography, cultural geography and world regional geography

Adam Berland, Ph.D., Minnesota, 2012, Assistant Professor — geographic information science, spatial analysis, urban environments

Call, David, Ph.D., Syracuse University, 2007, Associate Professor — weather and society, climatology, hazards and meteorology

Jill Coleman, Ph.D., Ohio State, 2005, Associate Professor — climatology, bioclimatology, quantitative methods

Michael Hawkins, Ph.D., Louisiana State, 1999, Assistant Professor — travel & tourism, cultural, Latin America

Nathan Hitchens, Ph.D., Purdue University, 2010, *Assistant Professor* — forecast evaluation and verification, climatology, and extreme weather

Jerzy Jemiolo, Ph.D., Jagiellonian (Krakow, Poland), 1982, Associate Professor — tourism, transportation, cultural, Europe, Russia

Jörn Seemann, Ph.D., Louisiana State University, 2010, Assistant Professor — maps and society, cartography, cultural geography, Latin America.

Carol Shears, M.A.E., Ball State, 1982, Assistant Professor — geographic education, physical geography

Kevin Turcotte, Ph.D., Indiana State, 1990, Professor and Chair — GIS, programming GIS

Jason Yang, Ph.D., University of Rhode Island, 2003, Associate Professor — remote sensing, geographic information systems, spatial statistics, research methods

Petra Zimmermann, Ph.D., University of Delaware, 2003, Associate Professor — applied climatology and meteorology, geographic information systems, quantitative methods

INDIANA STATE UNIVERSITY

DEPARTMENT OF EARTH AND ENVIRONMENTAL SYSTEMS
DATE FOUNDED: 1893
GRADUATE PROGRAM FOUNDED: 1963
DEGREES OFFERED: B.A. and B.S. in Earth and Environmental Sciences, Human and Environmental Systems, M.A. in Geography, M.S. in Earth and Quaternary Sciences, Ph.D. in Spatial and Earth Sciences, Minors are available in Geography, Geosciences, Environmental Sciences, Anthropology, Climatology, Sustainability, and GIS
GRANTED 2014-2015: 17 Bachelors, 4 Masters, 2 Ph.D.
STUDENTS IN RESIDENCE: 88 Majors, 13 Masters, 10 Ph.D.
NOT IN RESIDENCE: 1 Masters, 2 Ph.D.
CHAIRPERSON: Amos Winter

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Earth and Environmental Systems, Indiana State University, 6th & Chestnut, Terre Haute, Indiana 47809.
Telephone (812) 237-2444. Fax (812) 237-8029.
E-mail: ISU-EES@mail.instate.edu,
Web:http://www.indstate.edu/cas/ees

PROGRAMS AND RESEARCH FACILITIES: The Department offers undergraduate students the opportunity to major in earth and environmental sciences (concentrations in geoscience or atmosphere and surface processes) and human and environmental systems (concentrations in geography, GIScience or anthropology). At the graduate level, the Department offers Masters of Arts degree in Geography, Master of Science in Earth and Quaternary Sciences; and Doctor of Philosophy degree in Spatial and Earth Sciences with concentrations in geography and earth sciences.

Exceptional opportunities exist at ISU in GIS and remote sensing applied to systematic and regional topics. General requirements for each specialty area and degree vary, and interested students should contact the Chairperson of the Department for more detailed information.

The Department of Earth and Environmental Systems is housed in contemporary quarters with space and excellent facilities for research and grant/contract work. There are at present a map library (290,000 flat maps) and 12 labs, including the Center for Remote Sensing and Geographic Information Systems (GIS), Center for Urban and Environmental Change (CUEC), Climatology Laboratory (including the NOAA/NWS surface weather station), Archaeology and Quaternary Research Laboratory, dendrochronology laboratory, environmental geology laboratory, paleontology/paleocenography laboratory, geochemistry laboratory, human osteology laboratory, sedimentology/geomorphology laboratory, Hook Memorial Observatory, sample preparation rooms, and graduate office space. The Department owns five vehicles to assist with fieldwork and research.

Current research in physical geography includes climatology (cyclogenesis and low level wind maxima), biogeography, dendrochronology, and environmental modeling (land use/land cover modeling, habitat mapping).

Current research in human geography focuses on urban, regional, and global change. In recent years, faculty have investigated land conflict and change in Brazil, regional economic development policy, urban land use, the socio-spatial politics of globalization, and GIS and ethics.

The Center for Urban and Environmental Change (CUEC) focuses on studies of the causes, effects, and responses to environmental change in cities and urban/suburban areas, especially those in Indiana and the Midwest. Programs and activities relate to both the science and the management of urban environmental change, including policy, regulation, technology, impact adaptation, mitigation, and remediation.

FINANCIAL AID: Twelve undergraduate scholarships are available on a competitive basis. Graduate assistantships are awarded to qualified students. PhD teaching assistantship stipends range in value up to $11,600 per academic year; MA stipends range in value up to $9,100 per academic year. Students receiving stipends teach classes or labs, work part-time as assistants to the faculty, or render other services to the department. Before a stipend can be offered, a student must be admitted to the College of Graduate and Professional Studies. Scholarships are also available which include remission of tuition except service fees.

APPLYING: Requirements for admission include submission of GRE aptitude test scores (Verbal and Quantitative sections) and an undergraduate-level GPA of 3.0 or better or a graduate-level GPA of 3.25 on a 4.0 scale. Entering doctoral students should have a written master's thesis or should provide evidence of the ability to write original material.

FACULTY:

Stephen Aldrich, PhD, Michigan State, 2009 Associate Professor — environmental science, GIS

Susan M. Berta, PhD, Oklahoma, 1986, Associate Professor — geomorphology, physical geography, remote sensing

Gregory D. Bierly, PhD, Michigan State, 1996 Professor and Director of University Honors Program — climatology, physical geography

Sandra S. Brake, PhD, Colorado School of Mines, 1989, Professor — environmental geology, geochemistry, geobiology, mineralogy, igneous petrology

Mohamed Elyassini, Ph.D, Kentucky, 1995, Associate Professor — globalization, Middle East, human geography

Kathleen M. Heath, PhD, Utah, 1999, Associate Professor — evolutionary ecology, mating and parenting strategies, life history, collective action

Jennifer C. Latimer, PhD, Indiana University, 2005, Associate Professor — sediment geochemistry, oceanography, paleoceanography, environmental geochemistry, biogeochemistry, medical geology

Nancy J. Obermeyer, PhD, Chicago, 1987, Associate Professor — GIS, urban, cultural

Shawn Phillips, Ph.D, SUNY Albany, 2001 Associate Professor — biological anthropology, forensic anthropology

Anthony Rathburn, Ph.D, Duke, 1992, Professor — oceanography, paleontology

James Speer, Ph.D, Tennessee, 2001, Professor — biogeography, climatology, dendrochronology

C. Russell Stafford, PhD, Arizona State, 1981, Professor — geoarchaeology, GIS, Midwest Archaic societies

Jeffery Stone, Ph.D. Nebraska 2005, Assistant Professor — paleolimnology, diatoms, paleoecology

Qihao Weng, Ph.D, Georgia, 1999, Professor — remote sensing, GIS, environmental modeling

Amos Winter, Ph.D. The Hebrew University of Jerusalem, Israel, 1981, Professor — climate change, marine micropaleontology

ADJUNCT FACULTY:

Karla Hansen-Speer, PhD, Washington University, 2006 — archaeology, paleoethnobotany, dendrochronology, southwest US

EMERITI FACULTY:

William A. Dando, PhD, Minnesota
Prodip Dutta, PhD, Indiana
Basil Gomez, PhD, Southampton
Steven Pontius, PhD, Minnesota

INDIANA UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1946
GRADUATE PROGRAM FOUNDED: 1946
DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.
GRANTED 6/1/14-5/31/15: 24 Bachelors, 1 Masters, 0 Ph.D.
STUDENTS IN RESIDENCE: 40 Majors, 13 Masters, 15 Ph.D.
NOT IN RESIDENCE: 2 MA, 2 Ph.D.
CHAIR: Daniel C. Knudsen
DEPARTMENT ADMINISTRATIVE ASST: Kristi Carlson, Susan White

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Susan White, Department of Geography, Indiana University, Student Bldg. 120, Bloomington, Indiana 47405.
Telephone: (812) 855-6303. Fax: (812) 855-1661.
E-mail: geog@indiana.edu. Internet: www.indiana.edu/~geog

PROGRAMS AND RESEARCH FACILITIES: The M.A., M.S., and Ph.D. programs are designed to development each students abilities to carry out significant research in geography. Graduate study within the department is comprised of five fields: climate, land and environmental change, food and agriculture, geographic information systems and remote sensing, globalization, development and justice, and water resources. Courses in theory, research design, and methods constitute the core of study for all advanced degrees.

Requirements for the M.A. and M.S. degrees include a set of core courses, a Master's thesis or two research papers, and a comprehensive examination. Students studying for the Ph.D. are expected to develop a command of theory in their areas of research specialization and demonstrate a capacity to carry out independent research of significant importance. Formal requirements include a comprehensive examination and completion of the Ph.D. dissertation.

Undergraduate studies leading to the B.A. or B.S. degree emphasize geography as the basis of a strong liberal education. Undergraduate students are also encouraged to develop analytical skills in areas such as geographic information science and statistics.

Indiana University ranks among the top universities in the nation with respect to computing facilities.

The department works closely with other divisions of Indiana University, including the Center for the Study of Institutions, Population and Environmental Change, the Population Institute for Research and Training, the Transportation Research Center, the Center for Study of Global Change, the Russian and East European Institute, East Asian Studies, Latin American and Caribbean Studies, African Studies, Institute for European Studies, and Central Eurasian Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Indiana University is on the semester system. An undergraduate major in geography, or a close equivalent, and a B average are required for admission to the M.A. or M.S. programs. A M.A. or M.S. in geography or the equivalent is required for admission to the Ph.D. program. GRE scores must be submitted (minimum of at least 151 on verbal, 150 on quantitative, and 4.5 or better on analytical). Many graduate students receive financial support as teaching assistants or through fellowships and scholarships. Almost all financial awards include fee scholarships which cover the costs of tuition. Teaching assistants may carry up to 12 hours of graduate credit per semester and are expected to work 20 hours per week in the department. Other awards include University Fellowships, Dissertation Year Fellowships, summer fellowships, and grants-in-aid for doctoral students. Applications for financial aid should be received by December 15.

FACULTY:

Majed Akhter, Ph.D., University of Arizona, 2013, Assistant Professor — Water law/policy, Political ecology of development, Agrarian political economy, Marxist geography and geopolitics, Modern Pakistan and South Asia

Ishan Ashutosh, Ph.D., Syracuse University, 2010, Assistant Professor — Migration, Ethnicity, Urban geography

Elizabeth Dunn, Ph.D., John Hopkins University, 1998, Associate Professor — Effects of large bureaucratic systems during periods of cataclysmic social change

Tom Evans, Ph.D., University of North Carolina, Chapel Hill, 1998, Professor — Human-Environment Interactions, Agricultural Decision-making, Water Governance, GIS/Spatial Modeling

Darren Ficklin, Ph.D., University of California, Davis, 2010, Assistant Professor – Watershed hydrology and water quality modeling, Impacts of climate change on the hydrologic cycle, impacts of climate change on aquatic species and ecosystems

Tae Hee Hwang, Ph.D., University of North Carolina, Chapel Hill, Assistant Professor — Eco-hydrology, Remote Sensing, Biogeography

Daniel C. Knudsen, Ph.D., Indiana University, 1984, Professor — Cultural Geography, Landscape, Food and Tourism Geography

Rebecca Lave, Ph.D., University of California, Berkeley, 2008, Associate Professor — Critical physical geography, Political Ecology, Political Economy and Social Theory, Science and Technology Studies, Stream Restoration and Fluvial Geomorphology

Justin Maxwell, Ph.D., University of North Carolina, Greensboro, 2012, Assistant Professor — Climatology, Biogeography, Dendrochronology, Forest Disturbances

Scott Robeson, Ph.D., University of Delaware, 1992, Professor — Climate Change Detection, Impacts of Climate Change and Variability, Spatial Data Analysis, Environmental Statistics

Roman Zlotin, Ph.D., USSR Academy of Sciences, Moscow, 1970, Senior Lecturer — Biogeography

ADJUNCT FACULTY:

Eduardo Brondizio, Ph.D., Indiana University, 1996, Professor — Socio-ecological systems, environmental and economic anthropology

Timothy S. Brothers, Ph.D., University of California, Los Angeles, 1985, Associate Professor — biogeography, environment

Kelly K. Caylor, Ph.D., University of Virginia, 2003, Associate Professor — Eco-hydrology (i.e. the interface between plant ecology and surface hydrology), surface hydrology, dryland ecology & pastoralist agricultural systems, land degradation, hydrological controls on subsistence agricultural productivity.

Stephanie DeBoer, Ph.D., University of Southern California, 2007, Associate Professor — transnational or global film and media studies; film and media co-production; film and media's intersection with space, place, and location; East Asian film and media; Japanese and Chinese language film and media; inter-Asia cultural studies; memory and film/media; "new" media and globalization; film and media theory and criticism.

Danilo Dragoni, Ph.D., Cornell University, 2003, Assistant Professor — energy and mass (water and carbon dioxide) exchange in urban and forest systems; plant response to change in environmental forcings

Owen Dwyer, Ph.D., Kentucky, 2000, Associate Professor — urban geography, American social movements, Civil Rights movements and the museums and memorial landscapes that commemorate it, geographic education

James Farmer, Ph.D., Indiana University, 2009, Assistant Professor — motivations and barriers to sustainable behavior, mixed-methods research designs to examine behavior variables in private land conservation, land trust activities, participation in local food systems, and the human dimensions of sustainable agriculture and rural living.

Chunfeng Huang, Ph.D., Texas A&M University, 2001, Associate Professor — Spatial statistics, geostatistics, smoothing splines

Kimberly Novick, Ph.D., Duke, 2010, Assistant Professor — Forest Ecology, Ecosystem Carbon and Water Cycling, Biometeorology

A. Faiz Rahman, Ph.D., University of Arizona, 1996, Associate Professor — spatially distributed carbon cycle science using high resolution remote sensing; application of GIScience methods in spatial and temporal scaling studies; visualization of spatially dynamic and time-series of raster and vector data

Rinku Roy Chowdhury, Ph.D., Clark University, 2003, Associate Professor — Land Change Science, Human Dimensions of Global Environmental Change, Cultural and Political Ecology, GIS/RS, and Landscape and Conservation Ecology

Philip S. Stevens, Ph.D., Harvard University, 1990, Professor of Public and Environmental Affairs — chemical mechanisms which influence local air quality and global climate change, field measurements and modeling of the atmosphere

Dallen Timothy, Ph.D., University of Waterloo, 1996, Professor — international boundaries, heritage tourism and conservation, religious tourism, politics of heritage, global tourism

Jeffrey S. Wilson, Ph.D., Indiana State University, 1998, Professor — remote sensing and Geographic Information Science

EMERITI FACULTY:

Dennis Conway, Ph.D., University of Texas, Austin, 1976, Professor — Development, Transnational migration, Migration-development relationships

Charles E. Greer, Ph.D., University of Washington, 1975, Associate Professor — China, resource management

Emilio Moran, Ph.D., University of Florida, 1975, J.A. Hannah Professor of Global Change Science and Professor, Department of Geography, Michigan State University Founder, Anthropological Center for Training and Research on Global Environmental Change (ACT) — tropical ecosystem ecology, Amazon Basin, secondary successional forest, human ecology

Ernest H. Wohlenberg, Ph.D., Washington, 1970, Associate Professor — economic, natural resources, economic developments

VALPARAISO UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND METEOROLOGY
DATE FOUNDED: 1931
DEGREES OFFERED: B.A., B.S.
GRANTED 9/1/14-8/31/15: 14 Bachelors in Geography (5 B.S., 9 B.A.)
MAJORS: 33 in Geography, 1 in Geology
CHAIR: Teresa Bals-Elsholz
GEOGRAPHY COORDINATOR: Michael Longan
DEPARTMENT ADMINISTRATIVE ASST: Rusta Ault

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Admissions, Valparaiso University, Valparaiso, Indiana 46383. Telephone (219) 464-5140. Fax (219) 548-7738.
E-mail: geomet@valpo.edu.
Internet: http://www.valpo.edu/geography-meteorology/

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.A. in geography with strong foundational work in geography followed by concentrated study in one of four career areas: Environmental Geography, Urban Geography and Regional Planning, Computer Cartography/GIS, and Human/Cultural Geography. The B.S. in geography focuses upon environmental geography, physical geography, and geospatial analysis. The department also offers a B.A. in Geography Education, a B.S. in Meteorology, a B.S. in Geology (in conjunction with Indiana University Northwest), and minors in Geography, Meteorology, American Indian Studies, and GIS. The Department and the University emphasize close contacts between faculty and students. Students may undertake independent study projects, work closely with faculty on undergraduate research, and complete internships. Physical facilities include a map depository of the Army Map Service and USGS; the VU Weather Center; Dual-Polarization Doppler Weather Radar; and the F.P. Kallay GIS Laboratory. Fieldwork is an important part of the curriculum. Regular courses include visits to the nearby Indiana Dunes National Lakeshore and Chicago, while field courses have been offered in Hawaii, Alaska, and Arizona's Sonoran Desert. Many students take advantage of one of Valparaiso's International Study Programs in China, Japan, England, France, Germany, Namibia, Costa Rica, or Mexico. VU students organize and participate in Geography Club and GTU. Valparaiso University's Geography Department has established and maintains a long held tradition in securing entrance into graduate programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Application for admission to any program of the University, or for financial aid, can be obtained by visiting http://www.valpo.edu/admission/apply/ or by writing to the Office of Admissions and Financial Aid, Valparaiso University, Valparaiso, Indiana 46383. Scholastic Aptitude Test (SAT) of CEEB or the ACT Assessment of American College Testing Program required. Eighty percent of students receive Financial Aid.

FACULTY:

Teresa Bals-Elsholz, Ph.D., SUNY-Albany, 2001, Associate Professor — dynamic and synoptic meteorology, computer applications

Craig A. Clark, Ph.D., Iowa State, 2007, Associate Professor — boundary layer meteorology, climate change, dispersion modeling

Bharath Ganesh Babu, Ph.D., Indiana State, 2009, Associate Professor — GIS and remote sensing, biogeography, environmental conservation

Kevin H. Goebbert, Ph.D., Oklahoma, 2009, Associate Professor — synoptic meteorology, tropical meteorology, large and small scale forecasting

Ronald A. Janke, Ph.D., Minnesota, 1976, Professor — geomorphology, Native Americans, historical, North America

Jon T. Kilpinen, Ph.D., Texas, 1994, Dean of the College of Arts and Sciences and Professor — historical geography, GIS, cultural, Europe, United States

Michael W. Longan, Ph.D., Colorado, 2000, Professor — urban geography, rural geography, cultural, communications, Asia, and media

Adam Stepanek, M.S., Naval Postgraduate School, 2006, Lecturer — aviation meteorology, sub seasonal prediction, severe weather

Bart J. Wolf, Ph.D., Wisconsin, 1991, Professor — synoptic meteorology, large and small scale forecasting, severe storms

IOWA

UNIVERSITY OF IOWA

DEPARTMENT OF GEOGRAPHICAL AND SUSTAINABILITY SCIENCES
DATE FOUNDED: 1946
GRADUATE PROGRAM FOUNDED: 1946
DEGREES OFFERED: B.A., B.S., M.A., Ph.D.
GRANTED 8/1/14-7/31/15: 14 Bachelors, 5 Masters, 2 Ph.D.
STUDENTS IN RESIDENCE: 51 Majors, 6 Masters, 12 Ph.D.
NOT IN RESIDENCE: 1 Ph.D.
CHAIR: David A. Bennett
DEPARTMENTAL ADMINISTRATOR: Angela Bellew

FOR FURTHER INFORMATION WRITE TO: Graduate Admissions Coordinator, The University of Iowa, Department of Geography, 316 Jessup Hall, Iowa City, Iowa 52242-1316.
Telephone (319) 335-0150. Fax (319) 335-2725.
E-mail: geography@uiowa.edu.
Internet: http://clas.uiowa.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The goal of our graduate program in geography is to prepare students to execute creative and productive research involving the development and use of geographic theories and methods. In so doing, this program prepares students for positions in research, teaching, or applied geography. Success in achieving these goals has been demonstrated by the strong demand for University of Iowa graduates to fill positions on college and university faculties and with private and government organizations engaged in both research and practice.

Our program specializes in: 1) environmental dynamics, 2) health geography, 3) geographic information science (GIScience), 4) sustainability science, and 5) urban ecology. Often our investigations are team-based and occur at the intersection of two or more of these areas. GIScience as well as theories and models of environmental and social processes are central to these endeavors. Students are

encouraged to gain experience in multiple areas and to design programs of study and research that reflect their interests, background, and goals. Each student works closely with their advisor to design this program and active participation in research is a critical component of the graduate experience in the department. Faculty and graduate students frequently collaborate on research and students are encouraged to participate in regional and national professional meetings, seminars, reading groups, and a departmental colloquium that foster community and intellectual exchange.

The university and the city of Iowa City provide a stimulating social, cultural, and academic environment. Excellent bookstores, galleries, and the Iowa Center for the Performing Arts provide big city advantages without the high costs and inconveniences of big city living. Academically, the University of Iowa is highly ranked nationally and includes a medical school and the world-renowned Iowa Writers Workshop. Faculty and students participate in a variety of interdisciplinary research and teaching programs through key research centers and groups at the University. These include the Center for Global & Regional Environmental Research (CGRER), Environmental Modeling and Exposure Assessment Facility, Center for Health Effects of Environmental Contamination, Public Policy Center, International Programs, Interdisciplinary Graduate Program in Informatics, Quaternary Studies Group, College of Public Health, Department of Civil and Environmental Engineering, and IIHR—Hydroscience & Engineering. Members of the faculty maintain close working relations with faculty from many disciplines across campus, and students are encouraged to explore such opportunities.

A B.A. or B.S. degree in geography is not a prerequisite for entry into the program, but students are expected to have an undergraduate background relevant to pursuing graduate work in their specialty within geography. Depending on the strength and suitability of their prior training students may be required to take courses that are prerequisites for courses in their elected areas.

The department houses and maintains two computer facilities: the Geographic Information Systems Instructional Laboratory (GISIL) and a departmental research laboratory. The GISIL, which is the teaching facility for GIS and GIS applications courses, is equipped with 26 workstations. Additional equipment includes GPS receivers, terrestrial LiDAR and hyperspectral imaging scanners, UAV, equipment for field-based biogeographical and ecological studies, and a wide variety of software for mapping, statistical analysis, and GIS. The department also participates in an advanced GIS facility housed in CGRER and has access to high performance computing clusters maintained by the university.

ACADEMIC PLANS, ADMISSION REQUIREMENTS AND FINANCIAL AID:

UNDERGRADUATE: The University is on the semester system. To qualify for admission as an undergraduate major in the department, a student must meet the requirements of the College of Liberal Arts. Questions concerning financial aid should be addressed to the University Student Financial Aid Office in Room 208 Calvin Hall.

GRADUATE: ***Admission***: In determining the admission of a student to its graduate program, the department considers the total record of each student individually, including: (1) undergraduate grade point average, especially from the junior and senior years; (2) scores on the Graduate Record Examination (GRE) Aptitude Test; (3) at least three letters of recommendation; (4) an essay in which the applicant sets forth the reasons for wanting to pursue the study of geography at The University of Iowa. Application instructions: http://grad.admissions.uiowa.edu//academics/geography-ma-or-phd

M.A. Degree Requirements: The M.A. is designed to be completed in four semesters. It requires a minimum of 30 semester hours of graduate work, of which 18 semester hours must be in graduate-only courses. Competence in a specific area of geography, across the breadth of geography, and in geographical methods is demonstrated by the completion of appropriate course work and a M.A. thesis. A two-year coursework M.A., including a M.A. with specialization in GIScience, is offered.

Ph.D. Degree Requirements: The Ph.D. is a four- to five-year, postbaccalaureate program. While students typically enter the program after completing a MA or MS degree, exceptions can be made for highly qualified and motivated individuals who wish to enter the program directly from an undergraduate program. Competence in a specific area of geography, across the breadth of geography, and in geographical methods is demonstrated by the passing of comprehensive examinations and completion and defense of a dissertation.

***Financial Aid*:** Many admitted students are supported through graduate assistantships. Regular departmental Teaching and Research Assistantships carry stipends of $18,816 for the two semester academic year of 2016-17, plus a full tuition scholarship and healthcare benefits. External research grants also provide for research assistants.
The 2016-17 tuition and fees rate for in-state graduate students is $10,057 for the academic year. Out-of-state students pay $27,561. All half-time and quarter-time Teaching and Research Assistants are charged at in-state rates, and are provided with a tuition scholarship of $8,556 for full registration for an academic year. All half-time and quarter-time Teaching and Research Assistants are also provided with a 25% fee reduction. Deadline for applicants who wish to be considered for financial aid awards is December 31.

FACULTY:

Marc P. Armstrong, Ph.D., Illinois, 1986, Professor, Collegiate Fellow, and Associate Dean — geographic information science, computational geography

David A. Bennett, Ph.D., Iowa, 1994, Professor and Chair — geographic information science, sustainability, environmental modeling, land use/land cover change

Margaret Carrel, Ph.D., North Carolina, 2011, Assistant Professor — health, infectious disease ecology, landscape genetics, population

Caglar Koylu, Ph.D., South Carolina, 2014, Assistant Professor — geographic information science, geo-social networks, big data, visualization

Marc Linderman, Ph.D., Michigan State University, 2002, Associate Professor — remote sensing, environmental modeling, land use/land cover

George P. Malanson, Ph.D., UCLA, 1983, Coleman-Miller Professor — ecological modeling, biogeography, landscape ecology, land use/land cover

Claire E. Pavlik, Ph.D., Minnesota, 1990, Lecturer — economic, healthcare, qualitative research methods

Tyler Priest, Ph.D., Wisconsin-Madison, 1996, Associate Professor — energy and environmental policy

R. Rajagopal, Ph.D., Michigan, 1973, Professor — environmental measurements, methods, monitoring, modeling and management, information systems, regulation, policy

Heather A. Sander, Ph.D., University of Minnesota, 2009, Assistant Professor — geographic information science, land use/land cover, environmental modeling, ecosystem services

James D. Tamerius, Ph.D., University of Arizona, 2011, Assistant Professor — environmental determinants of health, infectious disease, climate

Eric Tate, Ph.D., South Carolina, 2011, Assistant Professor — hazards, vulnerability and resilience, uncertainty analysis

ADJUNCT FACULTY:

Marian V. Muste, Ph.D., Iowa, 1995 — cyberinfrastructure platforms, digital watersheds, sensors and sensing networks for integrated watershed research

Mary Skopec, Ph.D., Iowa, 1999, Adjunct Assistant Professor — water quality, fate and transport of pesticides, monitoring design and optimization, emerging environmental contaminants (pharmaceuticals), and watershed monitoring

Peter Weyer, Ph.D., Iowa, 1998, Adjunct Assistant Professor — water quality, chronic health effects, environmental epidemiology, environmental health policy

EMERITI FACULTY:

Michael L. McNulty, Ph.D., Northwestern, 1966, Professor Emeritus — Third World and regional development, urban-rural linkages, Africa

David R. Reynolds, Ph.D., Northwestern, 1966, Professor Emeritus — political, urban, political economy, locational and community effect

Rebecca S. Roberts, Ph.D., Oregon State, 1982, Associate Professor Emeritus — political economy of the environment and natural resources, water and agriculture

Gerard Rushton, Ph.D., Iowa, 1964, Professor Emeritus — location theory, health, geographic information science, behavioral

KANSAS

FORT HAYS STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES
DATE FOUNDED: 1955
DEGREES OFFERED: B.S. (available on campus and online) and M.S. in Geosciences
CURRENT MAJORS: 90 undergraduates, 27 graduates
CHAIR: P. Grady Dixon
GRADUATE COORDINATOR: Laura Wilson Brantley
DEPARTMENT ADMINISTRATIVE ASST: Ms. Patricia Duffey

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Grady Dixon, Department of Geosciences, Fort Hays State University, 600 Park St, Hays, Kansas 67601-4099.
Telephone (785) 628-5389. E-mail: pgdixon@fhsu.edu.
Internet: http://www.fhsu.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences offers geography specializations that can be tailored to the student's goals and interests. Our entire undergraduate program is offered on campus and online, including an undergraduate certificate in GIS. Graduate students can choose a thesis-based or non-thesis degree program designed to be finished in two years (30 hours of course work). The curriculum is very flexible and designed to encourage cross-discipline study.

While previously part of the College of Arts & Sciences, we are excited to be a founding member of a new College of Science, Technology, and Mathematics). Geosciences has recently joined departments of agriculture, applied technology, biology, chemistry, math and computer science, and physics in a college that is designed to improve resources and visibility for our students.

The department maintains excellent facilities, including advanced classroom technology, multiple sample-prep and analysis labs, and a GIS lab reserved only for our students. Field experiences are an important part of our culture, so all students have the opportunity for travel, research, and field work. The Sternberg Museum of Natural History is also a part of our university and department. The museum serves the public through educational exhibits and programs while also housing more than 3 million specimens used for research in several different disciplines.

Fort Hays State University is located in Hays, Kansas at the intersection of Interstate 70 and U.S. Highway 183 on the eastern edge of the High Plains. The city of Hays has a population of ~20,000, but its role as a regional center of commerce and culture allow it to offer many more amenities than might be expected of comparably sized towns. Denver, Kansas City, and Wichita are directly accessible via interstate highways. Fort Hays State University has an enrollment of more than 13,000 students, but fewer than 5000 are on campus. So, the university has the feel of a traditional, liberal-arts university with small class sizes, updated facilities, and accessible instructors and administrators.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Fort Hays State University is on a semester plan. Undergraduate admission inquiries should be made to the Admissions Office (http://www.fhsu.edu/admissions/). Graduate-school admissions are processed by the Graduate School (http://www.fhsu.edu/academic/gradschl/).

Fort Hays State University is exceptionally affordable, and in-state tuition is offered to residents of Kansas and the adjacent states. In-state tuition is offered also to students who qualify for the Midwest Student Exchange Program, and residents of Arizona and Texas are eligible for up to $20,000 in undergraduate scholarships simply by earning a 980 on the SAT, a 21 on the ACT, a 2.5 GPA, or by graduating in the top 33% of your class. The Department of Geosciences offers more than $30,000 in scholarships each year in addition to the university opportunities.

FACULTY:

Hendratta Ali., Ph.D., Oklahoma State University, 2010, Associate Professor — petroleum geology

Keith Bremer, Ph.D., Texas State University, 2011, Assistant Professor — human geography, urban sustainability

P. Grady Dixon, Ph.D., Arizona State University, 2005, Associate Professor and Chair — meteorology, climatology, and physical geography

Richard Lisichenko, Ph.D., Kansas State University, 1999, Associate Professor — GIS

Kenneth Neuhauser, Ph.D., University of South Carolina, 1973, Professor — environmental geology

Tom Schafer, Ph.D., Kansas State University, 2000, Associate Professor — physical geography, cartography

Laura Wilson Brantley, Ph.D., University of Colorado, 2012, Assistant Professor and Chief Curator of Sternberg Museum of Natural History — paleontology

Chunfu Zhang, Ph.D., Florida State University, 2011, Assistant Professor — geology, geochemistry

KANSAS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1946
GRADUATE PROGRAM FOUNDED: 1959
DEGREES OFFERED: B.A., B.S., M.A., Ph.D.
GRANTED: 9/1/14-8/31/15: 15 Bachelors, 2 Masters, 2 Ph.D.
STUDENTS IN RESIDENCE: 65 Majors, 15 Masters, 22 Ph.D.
NOT IN RESIDENCE: 4 Masters, 5 Ph.D.
HEAD: Charles W. Martin

GRADUATE PROGRAM INFORMATION: Douglas Goodin, Department of Geography, 118 Seaton Hall, Kansas State University, Manhattan, KS 66506-2904.
Telephone (785) 532-6727. Fax (785) 532-7310.
E-mail: dgoodin@ksu.edu. Internet: www.ksu.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: The program builds from a strong base in three traditional areas of geographic scholarship: human, cultural and regional geography; earth system geography; and geographic information sciences. Examples of collaboration involve nature-society interactions, population and health, and land change analysis. Rural landscapes and sustainability are the thematic core for the program, consistent with the land grant mission of KSU. Within each area students may pursue research more specific to their individual interests. Within the areas of human, cultural and regional geography, faculty specialties include landscape symbolism, ethnic landscapes, place identity, and religious landscapes. Faculty have regional expertise in North America, Europe, China, South Asia, Latin America, Sub-Saharan Africa, the Great Plains, American West, and in mountainous regions throughout the world. Earth systems geography includes geomorphology, soils, hydrology, biogeography, landscape ecology, paleoecology, climate variability and change, and environmental modeling. Nature-society interactions include studies of human dimensions of environmental change, natural hazards, rural land use and rural change, environmental modeling, water resources, and environmental perception. Population and health geographies include population migration and distribution, spatial patterns of diseases and health outcomes, rural settlement, and sustainable rural communities. Geographic information science includes GIScience, remote sensing and spatial modeling. Multidisciplinary graduate and undergraduate certificates in GIScience, administered by the department, are also available.

The department has a strong research and teaching reputation and ranks highly among the social sciences at KSU. These strengths have translated into several large grants that support collaborative research between students and faculty. Benefits of the geography graduate program include a balanced curriculum, a broad-based approach to research/scholarship, and a commitment to fieldwork as a component of geographic inquiry. The moderate size of the department fosters an informal, friendly atmosphere with ample opportunity to develop close rapport with faculty members and with visiting research scholars. Department resources include the Geographic Information Systems and Spatial Analysis Laboratory (GISSAL), a remote sensing research lab, a GIS/remote sensing teaching lab, a physical geography teaching lab, and an analytical laboratory focused on research in Paleoenvironmental Change. Geographic information science includes remote sensing, spatial modeling, Internet GIS, and geocomputational methods.

The rolling and tree-shaded university campus is located in Manhattan, pop. 50,000. Manhattan is situated eight miles north of I-70 in an attractive area of the Flint Hills, adjacent to Tuttle Creek Reservoir and Konza Prairie Biological Station, and one hour north of the Tallgrass Prairie National Preserve.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: The geography major requires 37 credit hours; either a B.S. or B.A. may be earned. Students may also select the preplanning option that requires an additional twenty-one credit hours of planning-related courses.

GRADUATE: Master's students may pursue either a 30 credit hour thesis option or a 32 credit hour report option. Regular admission to the Graduate School and the Department of Geography requires a 3.0 GPA (4.0 scale), three letters of recommendation, submission of GRE scores, official transcripts, and a one- to two-page statement of interests and objectives. Ph.D. applicants should have attained a score of at least 1100 on the combined verbal and quantitative components of the GRE. Ph.D. students are encouraged to pursue research that fits with the department's core areas and complements the rural and land grant tradition of Kansas State University.

Several nine-month appointments as a Graduate Teaching Assistant or Graduate Research Assistant are available each year on a competitive basis; additional support may also be available for summer months. Full-time GTAs receive a stipend and a full waiver of tuition. GRAs, supported from geography faculty research grants, receive a stipend and in-state tuition rates. A limited number of competitive Graduate School stipend supplements may also enhance graduate stipends.

FACULTY:
Marcellus M. Caldas, Ph.D. Michigan State, 2008, D.Sc. University of Sao Paulo, Associate Professor — land use and land cover change (LULCC), GIS and remote sensing applications to LULCC, biofuel policies, land reform in Latin America
Douglas G. Goodin, Ph.D., Nebraska, 1993, Professor — climatology, remote sensing, ecology of infectious disease, spatial analysis and modeling
John A. Harrington, Jr., Ph.D., Michigan State, 1980, Professor — climatology, human dimensions of global change, GIScience, geography education, applied geography, water resources, biogeography, Great Plains
Lisa M. Butler Harrington, Ph.D., Oklahoma, 1986, Professor — rural land use, natural resources, sustainability, nature-society relationships, public lands, hazards, Pacific Northwest, U.S.
J.M. Shawn Hutchinson, Ph.D., Kansas State, 2000, Associate Professor and Director, GISSAL — water resources, biogeography, environmental modeling, GIS, remote sensing, computer mapping and visualization, biosecurity
Audrey J. Joslin, Ph.D., Texas A&M, 2015. Assistant Professor — environmental governance, political ecology, biodiversity conservation, ecosystem services management, Latin America
Abigail L. Langston, Ph.D., Colorado, 2014, Research Assistant Professor — quantitative geomorphology, landscape evolution modeling, fluvial geomorphology, hydrology, Rocky Mountains
Max Lu, Ph.D., Indiana, 1996, Professor — population and health geographies, regional development, spatial analysis and modeling, China
Charles W. Martin, Ph.D., Kansas, 1990, Professor and Head — geomorphology, fluvial systems, Great Plains, Germany
Kendra K. McLauchlan, Ph.D., Minnesota, 2004, Associate Professor — biogeography, soils, environmental geography, paleoecology, North America
Francesco Orsi, PhD., Trento (Italy), 2010, Assistant Professor — spatial modeling, land use and ecosystem services, protected area management, sustainable transportation
Bimal K. Paul, Ph.D., Kent State, 1987, Professor — natural hazards, medical/health geography, population geography, quantitative methods, South Asia, Great Plains

Jeffrey S. Smith, Ph.D., Arizona State, 1997, Associate Professor — cultural geography, historical geography, place attachment, migration, American Southwest, Mexico

Arnaud J.A.M. Temme, Ph.D., Wageningen (Netherlands), 2008, Associate Professor — geomorphology, soil geography, soil and landscape evolution modelling, mountain soils and geography, Europe

Jida Wang, Ph.D., UCLA, 2013, Assistant Professor — remote sensing, GIS modeling, hydrological dynamics

ADJUNCT AND ANCILLARY FACULTY:

Melinda D. Daniels, Ph.D., Illinois, 2003, Associate Research Scientist at Stroud Water Research Center (Avondale, PA) — fluvial geomorphology, environmental restoration, stream ecosystems ecology, water resources and environmental management

Anne Jacquin, Ph.D., French Polytechnic National Institute of Toulouse (INPT), 2010, Researcher and Instructor at INPT-Ecole d'Ingénieurs de Purpan (Toulouse, France) — remote sensing, GIS, ecosystem and agrosystem processes

Kamlesh P. Lulla, Ph.D., Indiana State, 1983, Ph.D., Baroda (India), 1977, Chief Scientist for Earth and Imaging Sciences, NASA Johnson Space Center — environmental geography, land use/land cover, remote sensing, GIS

David R. Seamon, Ph.D., Clark, 1977, Professor (Architecture) — sense of place, urban social

David Vail, Ph.D., Kansas State, 2012, Assistant Professor (Special Collections) — agriculture, technology, and science in American West

EMERITI FACULTY:

Kevin Blake
Charles E. Bussing
Karen De Bres Cole
David E. Kromm
Richard A. Marston
H.L. Seyler
William R. Siddall
Stephen L. Stover

UNIVERSITY OF KANSAS

DEPARTMENT OF GEOGRAPHY AND ATMOSPHERIC SCIENCE
DATE FOUNDED: 1947
GRADUATE PROGRAM FOUNDED: 1958
DEGREES OFFERED: B.A., B.S., B.G.S., M.A., M.S., Ph.D.
GRANTED 9/1/14-8/31/15: 24 Bachelors, 13 Masters, 13 Ph.D.
STUDENTS IN RESIDENCE: 104 Majors, 14 M.A., 16 M.S., 31 Ph.D.
NOT IN RESIDENCE: 4 Masters, 4 Ph.D.
CHAIR: Nathaniel Brunsell
DEPARTMENT ADMINISTRATIVE ASST: Beverly M. Koerner

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Studies Committee, Department of Geography and Atmospheric Science, University of Kansas, 1475 Jayhawk Blvd., Room 213, Lawrence, Kansas 66045-7613.
Telephone (785) 864-5143. Fax (785) 864-5378.
E-mail: kugeog@ku.edu. Internet: www.geog.ku.edu.

PROGRAMS AND RESEARCH FACILITIES: The department graduate program emphasizes environment studies, GIS-cartography-remote sensing, and cultural/regional geography. Each is well supported by faculty strength throughout the university and by appropriate laboratory and library facilities. The environment program is composed of physical geography (geomorphology, soils, Quaternary studies, and bio/geochemistry) and atmospheric sciences (meteorology, climatology, and paleoclimatology). The department has specialized research laboratories for soils, sedimentology, palynology, and rock magnetics.

The GIS-cartography-remote sensing program is a highly interconnected unit that builds on pioneering work in cartography and remote sensing begun at Kansas in the 1950s under George Jenks and David Simonett, respectively. The GIS program emphasizes spatial data management, dissemination, geovisualization, and spatial analysis and modeling. Current remote-sensing research includes a wide range of environmental and agricultural issues at scales from small watersheds to continents. Cartographers concentrate primarily on design, visualization, history of cartography, and novel display methods. The department houses its own cartographic and GIS service center. Geographers also are the major participants in the university's remote-sensing applications center.

The cultural/regional programs take advantage of Kansas's well-developed interdisciplinary language and area-studies centers for Africa, East Asia, Latin America, and Russia-East Europe. All four of these centers have been designated National Resource Centers by the U.S. Department of Education during the past decade. The university's American Studies program and its T.R. Smith map collection are similarly regarded as among the best in the nation. Specific strengths within the cultural realm include political economy, development studies, indigenous studies, social theory and historical, humanistic, political, and economic geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to graduate standing requires superior academic performance at the undergraduate level and demonstrated competence in physical, human, and regional geography, and in geographic techniques. GRE scores and an application fee are required. The university follows the two-semester system with nine credit hours as the usual load. Thesis hours, directed readings, and some course work are also offered during an eight-week summer session.

The Geography M.A. and M.S. thesis program requirement is for thirty hours of graduate-level work, including the thesis. Two seminars and distribution requirements are designed to provide a core of training in human/regional, physical, and techniques. These are supplemented by courses in the student's area of interest.

The Atmospheric Science M.S. thesis program requirement is for thirty hours of graduate-level work, including the thesis. The breadth of the program and the diverse research topics explored by the faculty are able to accommodate students with a variety of interests.

A greater degree of specialization is expected for the Geography Ph.D. Sixty hours beyond the M.A. or M.S. are required, including twenty to thirty hours of work on the dissertation. There are various options to satisfy the foreign languages and/or other research skills requirement, including reading knowledge of one foreign language and proficiency in a research skill related to the candidate's area of specialization.

The Ph.D. degree in Atmospheric Science requires a minimum of sixty hours: thirty hours of coursework and thirty hours of dissertation research. Students will acquire a research skill in mathematics, statistics or applied science.

Several sources of financial aid are available to graduate students. Teaching and research assistantships within the department, the Kansas Applied Remote Sensing Program, the Kansas and U.S. Geological Surveys, and the Area Studies Centers are the primary

sources of aid; limited funds are also available for the summer period. Other sources of support include Graduate School Honors Fellowships, Dissertation Fellowships, work study, student loans, and the several categories of grants from the Office of Education, the National Science Foundation, and similar organizations.

FACULTY:

David A. Braaten, Ph.D., UC-Davis, 1988, Professor — atmospheric science, climate change, remote sensing

J. Christopher Brown, Ph.D., UCLA, 1999, Professor — political ecology, tropical environments, Latin America

Nathaniel A.Brunsell, Ph.D., Utah State, 2003, Professor — land-atmosphere interactions, remote sensing, micrometeorology

So-Min Cheong, Ph.D., Washington, 2001, Associate Professor — economic, sustainable resources, East Asia

Abel Chikanda, PhD., Western University, 2010, *Assistant Professor* – migration and development, food security and informal economy, Africa

Alexander C. Diener, PhD., Wisconsin, 2003, Associate Professor — political, social, cultural, Central Eurasia

Stephen L. Egbert, Ph.D., Kansas, 1994, Professor — remote sensing, geographic information science

Peter H. Herlihy, Ph.D., Louisiana State, 1986, Professor — cultural, historical, Latin America

Daniel R. Hirmas, Ph.D., University of California, Riverside, 2008, Associate Professor — pedology, soil geomorphology, soil mineralogy

Jay T. Johnson, Ph.D., University of Hawaii at Manoa, 2003, Associate Professor — cultural geography, comparative Indigenous Nations studies, post-colonalism

William C. Johnson, Ph.D., Wisconsin, 1976, Professor — Quaternary studies, geoarchaeology, environmental magnetism

Ting Lei, Ph.D., UC-Santa Barbara, 2010, Assistant Professor – GIS, remote sensing, and transportation

Xingong Li, Ph.D., South Carolina, 2000, Associate Professor — geographic information science, spatial analysis, GIS and remote sensing of hydrologic processes

David B. Mechem, Ph.D., Washington, 2003, Associate Professor — cloud microphysics and dynamics, mesoscale processes, numerical modeling, boundary layer clouds

Shannon O'Lear, Ph.D., Syracuse, 1997, Professor — cultural, political, Russia, the Caucasus and Central Asia, environmental policy

David A. Rahn, Ph.D., Wyoming, 2008, Assistant Professor — atmospheric science, mesoscale and synoptic meteorology

James R. Shortridge, Ph.D., Kansas, 1972, Professor — cultural, historical, United States

Justin P. Stachnik, *Ph.D., Texas A&M, 2013, Assistant Professor* – tropical meteorology, mesoscale precipitating systems, radar and satellite meteorology, cloud physics and dynamics

Pamela L. Sullivan, Ph.D., Florida International University, 2011 — ecohydrology, hydrogeology, aqueous geochemistry

Donna F.Tucker, Ph.D., Colorado State, 1987, Associate Professor — atmospheric science, modeling of mesoscale processes

Cornelius J. van der Veen, Ph.D., University of Utrecht (Netherlands), 1986, Professor — glaciology, ice-climate interactions, global change

Barney Warf, Ph.D., University of Washington, 1985, Professor — economic geography, social theory, urban geography

AFFILIATED FACULTY:

Joseph Brewer, Ph.D., Arizona, 2008, Courtesy Assistant Professor — natural resources management for American Indians & Alaskan Natives, Indian land tenure

Kelly Kindscher, Ph.D., Kansas, 1991, Courtesy Professor — plant community ecology research

Rolfe D. Mandel, Ph.D., Kansas, 1990, Courtesy Professor — soils, geoarcheology, Quaternary sediments

Valery J. Terwilliger, Ph.D., California, 1988, Adjunct Associate Professor — biogeography, geomorphology, geotechnical engineering

EMERITI FACULTY:

John P. Augelli, Ph.D. Harvard, 1951
Leslie Dienes, Ph.D., Chicago, 1968
George F. McCleary, Jr., Ph.D., Wisconsin, 1969
Robert W. McColl, Ph.D., Washington, 1964
Robert E. Nunley, Ph.D., Michigan, 1958
Curtis J. Sorenson, Ph.D., Wisconsin, 1973

KENTUCKY

UNIVERSITY OF KENTUCKY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1944
GRADUATE PROGRAM FOUNDED: 1946
DEGREES OFFERED: B.A., B.S., M.A., Ph.D.
STUDENTS IN RESIDENCE: 38 B.A/B.S. 10 M.A., 25 Ph.D.
NOT IN RESIDENCE: 4 M.A, 11 Ph.D.
CHAIR: Richard H. Schein (schein@uky.edu)
ADMINISTRATIVE ASSISTANT: Lori Tyndall (l.tyndall@uky.edu)
DIRECTOR OF GRADUATE STUDIES: Andrew Wood (andrew.wood@uky.edu)
DIRECTOR OF UNDERGRADUATE STUDIES: Alice Turkington (alicet@uky.edu)

CONTACT INFORMATION: 817 Patterson Office Tower, University of Kentucky, Lexington, KY 40506-0027.
Telephone: (859) 257-2931; Fax: (859) 257-6277.
For more detailed information: https://geography.as.uky.edu/.

The Department is known for high quality research and graduate education in human geography, physical geography, and critical GIS/GIScience. Program strengths include close faculty-student interaction, flexibility in designing an appropriate plan of study, and research training seminars. Emphasis at both the MA and PhD levels is placed on theoretical and methodological training, which is closely integrated with students attaining both breadth and depth in substantive domains. Graduate student research is empirically rich, with data usually acquired through fieldwork. The faculty is committed to assisting students in obtaining external research funding and in disseminating research findings through professional journals and conferences. We also offer professional development seminars. Graduate students also gain valuable experience as instructors, and they participate actively in departmental service and governance through various committees.

Faculty and student research focuses on interrelated thematic clusters. Research seminars are organized around topics relevant to these clusters, with thematic content varying with current graduate student and faculty interests. Faculty has regional expertise in a variety of domestic and international settings. Students have access to faculty with a variety of methodological expertise. The University supports excellent computational facilities; the department houses computing, GIS, and mapping activities in the Gyula Pauer Center for Cartography & GIS Information. The WT Young library houses over 2.6 million volumes and supports on-line, full-text journal access. Strong linkages are maintained with interdisciplinary research centers on campus.

ACADEMIC PLAN, ADMISSION, FINANCIAL AID:
UNDERGRADUATE: Semester system. First year admission is based on probable success as indicated from high school grades and ACT results.

GRADUATE: Admission is based on a combination of: undergraduate and graduate grade point averages; scores on the GRE; a written statement of research interests and professional goals; three letters of recommendation. No single criterion is dominant, but the combination must demonstrate the applicant's potential for success in graduate study. Inquiries should be directed to the Director of Graduate Studies. Information on the formal application process is available at our web site.

The department offers graduate teaching assistantships, which carry a stipend ($14,848 for the year 2016-17), plus full tuition remission and health coverage. Fellowship support also is available, at the departmental level and through intra-university competitions.
Please visit our website at https://geography.as.uky.edu/ for full details and descriptions of the department, its faculty, graduate students, research clusters, and related information.

FACULTY:
Betsy Beymer-Farris, Ph.D University of Illinois at Urbana-Champaign, 2011, Assistant Professor — Political ecology, social-ecological resilience, gender, geographies of conservation and development, East Africa
Stanley D. Brunn, Ph.D. Ohio State, 1966, Professor Emeritus — Social and political geography, information and communication, North America, Europe, and Central Asia
Jeremy Crampton, Ph.D. Penn State 1994, Professor — Critical cartography and GIS, new mapping technologies, theory
Patricia Ehrkamp, Ph.D. University of Minnesota, 2002, Associate Professor — Political, urban, feminist geography, immigration, citizenship, refugee studies
Carolyn Finney, Ph.D. Clark University, 2006, Assistant Professor — Identity, representation, difference and place, race and environment, environmental humanities
P.P. Karan, Ph.D. Indiana, 1956, Professor — Development, multinational corporations, society-environment relationships, Asia/Pacific, Japan, South Asia
Daehyun Kim, PhD. Texas A&M, 2009, Associate Professor — Biogeography, spatial analysis, ecological simulation modeling, soil landform modeling
Liang, Liang, Ph.D. University of Wisconsin-Milwaukee, 2009, Assistant Professor — Bioclimatology, landscape phenology, remote sensing, and spatial ecology
Tad Mutersbaugh, Ph.D. University of California-Berkeley, 1994, Professor — Political ecology, gender & development, agrarian studies, certified commodities, Mexico and Latin America
Jonathan Phillips, Ph.D. Rutgers, 1985, Professor — Geomorphology, pedology, earth surface systems
Lynn Phillips, Ph.D University of Louisville, 2013, Assistant Professor — Applied geography, urban planning, growth management, and geography of global equine centers
Karl Raitz, Ph.D. Minnesota, 1970, Professor Emeritus — American landscapes, historical geography, U.S., Appalachia, visual methods
Susan Roberts, Ph.D. Syracuse, 1992, Professor — Global political economy, financial capital, development, feminist theories
Michael Samers, D. Phil Oxford University, 1997, Associate Professor — Economic and urban geography, immigration, alternative forms of economic development, international finance, France, European Union, US
Richard Schein, Ph.D. Syracuse, 1989, Professor and Chair — Cultural landscapes, urban geography, U.S. historical geography
Anna Secor, Ph.D. University of Colorado, 2000, Professor and Hajja Razia Sharif Sheikh Islamic Studies Professor — Political, cultural, Islamic world, social theory, feminist geographies
Gary Shannon, Ph.D. Michigan, 1970, Professor — Medical Geography: disease ecology, health services delivery, telemedicine, global dynamics of health and disease
Tony Stallins, Ph.D. Georgia, 2000, Associate Professor — Biogeography, biogeomorphology, scale theory, organism-environment interactions
Alice Turkington, Ph.D. Queens University-Belfast, 1999, Associate Professor and Director of Undergraduate Studies — Geomorphology, weathering, urban environments, applied geomorphology
Andrew Wood, Ph.D. Ohio State University, 1993, Associate Professor and Director of Graduate Studies — Economic, political, and urban geography
Matthew W. Wilson, Ph.D. University of Washington, 2009, Associate Professor — Critical GIS, urban political geography, science and technology studies
Matthew Zook, Ph.D. University of California, Berkeley, 2001, Professor — Information and economic geographies, urban technologies, critical GIS

GYULA PAUER CENTER FOR CARTOGRAPHY AND GIS:
Jeff Levy, B.A. Kentucky, 2000, GIS Analyst — GIS and applications in planning, transportation, and historical research
Richard Gilbreath, M.A. Kentucky, 1995, Manager, Center for Cartography and Geographic Information — production cartography, computer cartography

AFFILIATED AND ADJUNCT FACULTY:
William Andrews, Ph.D. Kentucky, 2004, Kentucky Geological Survey — Geomorphology, Quaternary mapping, physiography, fluvial erosion
Oliver Fröhling, MA, University of Nebraska-Lincoln, 1993, Director, Centro de Encuentros y Diálogos Interculturales (CEDI), Oaxaca, Mexico — Development and anti-development, NGOs, regional autonomy movements in Mexico
Theodore H. Grossardt, Ph.D. Kentucky 1999, Kentucky Transportation Center — Transportation, social theory, participatory planning
Daniel Marion Ph.D. University of Iowa, 2001, U.S. Forest Service — Hydrology, stream channel morphology, forest ecosystems, and soils
Graham D. Rowles Ph.D. Clark 1976, Professor and Director, Graduate Center for Gerontology — Aging and the elderly, social, rural, qualitative research methods
John F. Watkins Ph.D. Colorado, 1986, Associate Professor — Population, aging and the elderly, migration, Appalachia

UNIVERSITY OF LOUISVILLE

DEPARTMENT OF GEOGRAPHY AND GEOSCIENCES
DATE FOUNDED: 1972
DEGREES OFFERED: B.S. in Applied Geography; M.S. in Applied Geography
GRANTED 7/1/15-6/30/16: 23 Bachelors; 7 Masters
MAJORS: 128
CHAIR: David A. Howarth
DEPARTMENT BUSINESS MANAGER: Sharon M. O'Bryan

CONTACT INFORMATION: Department of Geography and Geosciences, University of Louisville, 206 Lutz Hall, Belknap Campus, Louisville, Kentucky 40292.
Telephone (502) 852-6844. Fax (502) 852-4560.
For more information: www.louisville.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department offers B.S. and M.S. degrees in Applied Geography. B.S. students choose one of four tracks: Urban Analysis, Environmental Analysis, Geospatial Technologies, and Human and Cultural Dynamics. The B.S. degree has a common core consisting of Global Environment, Power of Place, Globalization and Diversity, Introduction to Mapping and Geospatial Technologies, Sustainable Human Environments, Quantitative Analysis, Research Methods, and Senior Thesis. Advanced specialization courses include Climatology, Geomorphology, Geopolitics, Qualitatitive Methods, Hydrology, Medical Geography, Remote Sensing, GIS, Programming for GIS and Spatial Data Analysis, Transportation, Locational Analysis, Urban Population, Globalization, and Urban Issues. Majors have either found employment in nearby private or public agencies, or are pursuing graduate studies.

The M.S. curriculum is a two-year program of study for full-time students. Foundation courses for the degree include History of Geography, Advanced Spatial Statistics, Approaches and Methods in Applied Geography, Qualitative Analysis, and Proposal Development. Thesis and non-thesis options are available.

The department enjoys a good relationship with local government and has an active internship program with several agencies. The department houses the University's Center for Geographic Information Sciences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission to Admissions Office at the University.

FACULTY:

C. Andrew Day, Ph.D., Texas State, Assistant Professor — climate change, land cover change, hydrology/water resources, sustainability of physical systems

Andrea Gaughan, Ph.D., Florida, Assistant Professor — spatial and temporal complexity of coupled human-environment systems, land-use/land-cover change dynamics, climate variability/change, remote sensing and GIS, modeling and spatial statistics

Jafar Hadizadeh, Ph.D., Imperial College, Great Britain, Professor — structural geology and rock mechanics

Carol L. Hanchette, Ph.D., North Carolina, Chapel Hill, Associate Professor — medical geography, geographic information systems, globalization

David A. Howarth, Ph.D., Ohio State, Professor — climatology, short term climate variability, meteorology, urban climatology, geography education

Priscilla McCutcheon, Ph.D. Connecticut, Assistant Professor – racial identity formation, claims to space, black religious food programs

Keith R. Mountain, Ph.D., Ohio State, Associate Professor — glaciology, radiation and boundary layer climatology, geography education

Jason Naylor, Ph.D., North Dakota, Assistant Professor – meteorology, severe weather, tornadoes, numerical weather prediction, storm-scale modeling

Wei Song, Ph.D., Ohio State, Associate Professor — transportation and location analysis, urban and regional studies, GIS applications, quantitative methods; China

Forrest R. Stevens, M.S., University of Florida, Assistant Professor – integrated modeling and quantitative spatial analyses, land systems science, remote sensing, rural lands and livelihoods

Margath A. Walker, Ph.D., Kentucky, Assistant Professor — urban geography, cultural impacts of globalization, cultural production, qualitative research methodology, border security and identities; Latin America

Haifeng (Charlie) Zhang, Ph.D., South Carolina, Associate Professor — urban & social issues, race & ethnicity, GIS, spatial analysis methods; China

ASSOCIATE AND EMERITI FACULTY:

John L. Anderson, Ph.D., Kentucky, 1974, Assistant Professor
Don E. Bierman, Ph.D., Michigan State, 1970, Professor Emeritus
Terra A. Clarke, Ph.D., UC, Riverside, 1977, Professor Emerita
James E. Conkin, Ph.D., Cincinnati, 1960, Professor Emeritus
K. Lal Gauri, Ph.D., Bonn, 1964, Professor Emeritus
George A. Lager, Ph.D., British Columbia, 1975, Professor Emeritus
Clara A. Leuthart, Ph.D., Louisville, 1975, Professor Emerita
Dennis L. Spetz, Ed.D., Indiana, 1971, Professor Emeritus

WESTERN KENTUCKY UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOLOGY
DATE FOUNDED: 1907
GRADUATE PROGRAM FOUNDED: 1967
DEGREES OFFERED: B.S. (Geography and Environmental Studies, Meteorology, GIS, Geology), B.A. Earth Science, M.S. Geoscience, M.A.E. Education/Geography Major
GRANTED 9/1/14-8/31/15: 29 Bachelors, 7 Master's
STUDENTS IN RESIDENCE: 150 Majors, 20 Masters
NOT IN RESIDENCE: 5 Masters
HEAD: David J. Keeling
DEPARTMENT ADMINISTRATIVE ASST: Wendy Decroix

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. David J. Keeling, Department of Geography and Geology, Western Kentucky University, 1906 College Heights Blvd. #31066, Bowling Green, Kentucky 42101-1066.
Telephone (270) 745-4555. Fax (270) 745-6410.
E-mail: david.keeling@wku.edu. Internet: www.wku.edu/geoweb/.

PROGRAMS AND RESEARCH FACILITIES: Five specialty areas are emphasized in the graduate and undergraduate programs: *GIS* (GIS, transportation, spatial statistics, remote sensing); *Geoscience* (Hydrogeology, geology, geochemistry, cave and karst systems, hydrology, paleoclimate reconstruction); *Meteorology and Climatology* (Applied meteorology, climatology, climate change, prediction); *Environment and Sustainable Development* (Conservation, natural resource management, environmental education, sustainability, water resources, climate change); and *Culture and Society* (Society, material culture, regions, tourism and development, food and resources). The Department's research centers include the Kentucky Climate Center; Kentucky Mesonet; CHAOS group, Center for Cave and Karst Studies; Human-Geo-Environmental Change, Crawford Hydrology Lab, Applied Materials Institute; Reynolds Geophysical Laboratory; and the GeoHazards Group. Additional research facilities include an interdepartmental GIS laboratory, water resources laboratory, eye-tracking lab, computer labs, and considerable geoscience field equipment.

UNDERGRADUATE: Professional B.S. programs in Geography and Environmental Studies, Meteorology, GIS, and Geology/Earth Science are offered. The Department also offers a 14-hour Certificate program in GIS, and minors in general geography, water resources, geology, sustainability, environmental science, and Latin America studies. Emphasis in all degree programs is placed on analysis of problems that have an applied aspect and consequently have policy development implications, with programs tailored to the student's interests. Internship and research opportunities are available to all interested students. Multiple study abroad opportunities are also available for both undergraduate and graduate students. The combination of the geography, meteorology, GIS, and geology disciplines provides an opportunity to emphasize human-

environmental interactions, as well as culture and society and physical and environmental studies independently. Students take foundational and technique courses, and then custom select their degree program electives to suit their interests and future goals. The Department offers a 5-year Joint UG and Graduate program (JUMP) for highly qualified and motivated students.

GRADUATE: The M.S. Degree in Geoscience prepares students for myriad careers and to become candidates for the Ph.D. It requires a minimum of thirty semester hours of coursework, a thesis (or publishable research paper), and a demonstrated proficiency in a research technique. Program graduates serve in a variety of discipline-related positions around the country. Faculty members participate in research addressing water problems, climate and weather analysis, cave development, resource use, global development, environmental management, environmental education, and urban planning. In addition, field research by faculty and students is conducted continually in the local area, in several other states, and in China, Latin America, and Europe.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Admission Requirements:* An undergraduate degree with G.P.A. of 3.2 or higher (on a 4.0 scale), and an appropriate GRE score (at least 3.5 writing and analytical assessment). A GAP score (GRE times GPA) of at least 150 is required for admission to the Geoscience program. Semester system. *Financial Aid:* A number of teaching and research assistantships are available with tuition plus stipend ranging between $15,000 and $20,000 for the academic year. Out-of-state tuition scholarships and partial tuition waivers are available for qualified students.

FACULTY:

Katie Algeo, Ph.D. LSU, 1998, Professor — Appalachia, GIS, research methods, agricultural geography, historical geography

John D. All, J.D., Ph.D., Arizona, 2002, Associate Professor — Environment, biogeography, law and ethics, policy

William Blackburn, M.S., Western Kentucky, 2003, Instructor II — Environment, Kentucky

Jill Brown, M.S, Western Kentucky, 2002, Assistant Professor — Cultural and Physical Geography, Planning

Kevin Cary, M.S., GISP, Western Kentucky, 2000, Instructor II, GIS Center Director — GIS, spatial techniques

Margaret Crowder, Ed.D. WKU, 2012, Instructor II — General geology, geohazards, education

Scott Dobler, M.A. GISP, Bowling Green State, 1990, Instructor II — GIS, teacher education, climatology

Joshua Durkee, Ph.D., Georgia, 2008, *Associate Professor* — Meteorology, Climatology, Severe storm events

Xingang Fan, Ph.D., Lanzhou, China, 1996, Associate Professor — Atmospheric modeling, Meteorology.

Stuart A. Foster, Ph.D., Ohio State, 1988, Professor. State Climatologist, Mesonet Director — location analysis, GIS, quantitative methods.

Nahid Gani, Ph.D. Texas at Dallas, 2006, Assistant Professor — Tectonics, Thermochronology, Structural Geology, Remote Sensing

Royhan Gani, Ph.D. Texas at Dallas, 2005, Associate Professor – Sedimentology, Stratigraphy, Earth Science, Petroleum Geology

Gregory Goodrich, Ph.D., Arizona State, 2005, Associate Professor — Synoptic climatology, remote sensing

Margaret Gripshover, Ph.D., Tennessee, Knoxville, 1995, Associate Professor — Cultural Geography, US South, Equine Geography

Christopher Groves, Ph.D., Virginia, 1992, Distinguished Professor of Hydrogeology — Geomorphology, hydrology, caves and karst

Pat Kambesis, Ph.D., Mississippi State, 2014, Instructor — Cave and karst, GIS,

David J. Keeling, Ph.D., Oregon, 1992, Distinguished Professor of Geography, Graduate Coordinator, Department Head — Latin America, World Cities, transportation, Writing

Rezaul Mahmood, Ph.D., Oklahoma, 1999, Professor — Climatology, GIS, hydrology

Michael T. May, Ph.D., Indiana, 1992, Professor — Environmental geology, aqueous geochemistry

Amy T. Nemon, M.S., Western Kentucky, 2007. Instructor — Regional, Cultural, Sustainability

Leslie North, Ph.D., South Florida, 2011. Assistant Professor — Environmental education, water resources, sustainability, cave and karst, eye-tracking

Jason Polk, Ph.D., South Florida, 2009. Associate Professor — Paleoclimate, water resources, geomorphology, cave and karst, isotope geochemistry.

Fredrick D. Siewers, Ph.D., Illinois, 1995, Associate Professor — Sedimentology, stratigraphy, paleontology

Andrew Wulff, Ph.D., Massachusetts, 1999, Associate Professor — Structural geology, mineralogy, geochemistry

Jun Yan, Ph.D., Buffalo, 2004, Associate Professor — GIS, transportation, planning, modeling

ACTIVE FACULTY EMERITUS:

Doral Glen Conner, M.A., Western Kentucky, 1976
Nicholas Crawford, Ph.D. Clark, 1977
L. Michael Trapasso, Ph.D. Indiana State, 1980

LOUISIANA

LOUISIANA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY
DATE FOUNDED: 1928
GRADUATE PROGRAM FOUNDED: 1933
DEGREES OFFERED: BA, BS, MS, M.N.S., BA and MA in Anthropology, and PhD Geography and Anthropology with a concentration in Geography or Anthropology
GRANTED 7/1/014 – 6/30/15: 12 Bachelors, 2 Masters, 10 PhD (Geography and Anthropology)
STUDENTS IN RESIDENCE: 26 Majors, 14 Masters, 47 PhD (Geography and Anthropology)
CHAIR: Fahui Wang
ASSISTANT TO THE CHAIR: Linda Strain

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Director (E-mail: gradsec@lsu.edu), Department of Geography and Anthropology, Louisiana State University, Baton Rouge, Louisiana 70803.
Telephone (225) 578-5942. Fax (225) 578-4420.
E-mail: gachair@lsu.edu. Internet: www.ga.lsu.edu.

PROGRAMS AND RESEARCH FACILITIES: Geography at LSU explores the environmental and spatial relations of nature and culture through field, archival, qualitative, and quantitative research. As a bidisciplinary department of geography and anthropology, the Department offers six degree programs. Bachelor's programs provide the full range of geographical instruction appropriate to a liberal education; Master's programs accent breadth of professional geographical and anthropological training; the doctoral program has a concentration in Geography (specialized research and scholarship in physical geography, human geography, mapping sciences) and a concentration in Anthropology (archaeology, biological, cultural and linguistics).

Inquiry focuses on: ***Physical Geography*** - synoptic climatology, hydroclimatology, paleoclimatology, hydrology, and fluvial and

coastal geomorphology and resources; ***Human Geography*** - cultural, cultural ecology, regional economic development, historical, settlement, and environmental; ***Mapping Sciences*** - computer cartography, aerial photography, remote sensing, spatial analysis, and Geographic Information Systems. Latin America is our most studied region. Current faculty and graduate students also conduct field research in Central and East Asia, Africa and Europe.

Resources and facilities at LSU are ample and varied. LSU's Middleton Library with over 2.5 million volumes, 3.4 million microforms, and more than 7 million manuscripts is especially strong in geography and anthropology (http://www.lib.lsu.edu/). The Department's Cartographic Information Center (CIC), one of the nation's largest academic map libraries, houses more than 500,000 maps and aerial photographs (http://www.cic.lsu.edu/). In addition to the CIC, the Department's mapping sciences concentration is supported by two computer mapping sciences laboratories. Facilities for research include laboratories of geomorphology, material culture, paleoclimatology, archaeology, 3D Digital Imaging Lab, the FACES Lab, the Louisiana Office of State Climatology, and the Southern Regional Climate Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Selection is based on compatibility of interests with departmental programs; on grades, letters of recommendation, and Graduate Record Examination scores. For regular admission, the LSU Graduate School requires an undergraduate grade point average of at least 3.0 and the department requires 1000 GRE. To be competitive for financial aid an applicant should exceed these minimum requirements.

Graduate Assistantships start at $12,000 - Masters and $14,000 - PhD for nine months. Pruitt assistantships start higher. Regents ($12-20,000) and Perkins Diversity Fellowships ($18,000) are available to outstanding PhD applicants. Grants for fieldwork ($200 - $1,500) are available each year through the Robert C. West Field Research, R.J. Russell and Materials awards (http://www.ga.lsu.edu/).

FULL-TIME FACULTY:

John M. Anderson, M.L.I.S., Louisiana State, 1995, Associate Librarian, Director of the Cartographic Information Center — historical maps, U.S. Geological Survey, U.S. Coast and Geodetic Survey, Louisiana, battlefields

Mary Jill Brody, PhD, Washington, 1982, Professor — linguistics, discourse analysis, anthropology, Mayan languages

Juliet K. Brophy, PhD Texas A&M U 2011, Assistant Professor — hominin evolution, craniodental morphometric analyses, paleoenvironmental reconstruction, Elliptical Fourier Function Analyses, taphonomy, southern Africa

Kerry R. Chance, PhD, U of Chicago,2011. Assistant Professor — cultural, political, legal & Africanist anthropology

David Chicoine, PhD, U. of East Anglia, 2007, Associate Professor — archaeology; coastal Peru; ancient political systems; early urbanism; interactions; ceramics; architecture; visual arts, funerary practices

Craig E. Colten, PhD, Syracuse, 1984, Carl O. Sauer Professor — historical, environmental, American South

Kristine L. DeLong, PhD, Univ. of South Florida, 2008, Associate Professor — paleoclimate, tropical climate variability, time series analysis, Gulf of Mexico/Caribbean and southwest Pacific

Joyce M. Jackson, PhD, Indiana, 1988, Professor — ethnomusicology, folklore, performance centered studies and ritual, Louisiana, Africa & the Diaspora

Barry Keim, PhD, Louisiana State, 1994, Richard J. Russell Professor and Louisiana State Climatologist — climatic change, extreme events, hydroclimatology, climate data

Kory Konsoer, PhD, University of Illinois, Urbana-Champaign, 2014, Assistant Professor — fluvial geomorphology, sediment transport, river hydraulics, watershed hydrology

Michael Leitner, PhD, SUNY-Buffalo, 1997, Professor — spatial analysis and GIS, computer cartography, Europe

Ginesse A. Listi, PhD, Tulane, 2008, Asst Professor-Research, Interim Director FACES Lab — physical and forensic anthropology

Brian Marks, PhD, University of Arizona, 2010, Assistant Professor — Political geography, economic geography, fisheries and aquaculture, Southeast Asia, US Gulf Coast

Kent Mathewson, PhD, Wisconsin, 1987, Professor — cultural, historical, cultural ecology, history of geography, Latin America, American South

Heather McKillop, PhD, California-Santa Barbara, 1987, Thomas and Lillian Landrum Alumni Professor — coastal and underwater archaeology, Maya, Belize

Shelley Xuelian Meng, PhD, Texas State Univ, San Marcos, 2010, Assistant Professor — Land-cover/land-use dynamics, urban remote sensing, GIS, feature extraction and 3D visualization, LiDAR for urban and forest applications

Steven Namikas, PhD, 1999, Southern California, Associate Professor — coastal and aeolian geomorphology, sediment transport, environmental monitoring and modeling

Micha Rahder, PhD, 2014, UC Santa Cruz, Assistant Professor — science and technology studies, environmental anthropology, tropical forest conservation, political ecology, more-than-human worlds

Helen Regis, PhD, Tulane, 1997, Associate Professor — cities, performance, public space, race, anthropology, Africa and Diaspora

Kevin Robbins, PhD, North Carolina State, 1987, Associate Professor, Director of the Southern Regional Climate Center — agricultural climatology

Robert Rohli, PhD, Louisiana State, 1995, Fred B. Kniffen Professor — climatology, applied meteorology, water resources

Luigi Romolo, PhD, Saskatchewan, 2006, Assistant Professor-Research — physical, synoptic climatology, hydrology

David Sathiaraj, PhD, Louisiana State, 2013, Assistant Professor-Research/Associate Director SRCC — big data analytics for geosciences, spatiotemporal data mining, climate infomatics, data science and engr.

Rebecca Saunders, PhD, Florida, 1992, William G. Haag Professor of Archaeology and Associate Professor and Associate Curator of Anthropology, Museum of Natural Science — contact period studies, southeastern U.S. prehistory pottery analysis

Andrew Sluyter, PhD, Texas, 1995, Associate Professor — historical, cultural and political ecology; place and landscape; social/natural theory; Latin American and the Caribbean

Robert Tague, PhD, Kent State, 1986, Earlene Nolan Sanders Alumni Professor — physical anthropology, paleodemography, osteology, and reproductive biology

Jill Trepanier, PhD, Florida State U 2012, Assistant Professor — Statistical climatology, tropical cyclones, extreme climate events, societal risk

Lei Wang, PhD, Texas A&M, 2006, Associate Professor — GIS, quantitative methods, terrain and hydrological analysis, remote sensing

Fahui Wang, PhD, Ohio State, 1995; James J. Parsons Professor and Department Chair — urban, economic, and transportation geography, public policy (health, crime, planning), GIS, quantitative methods ; China, S.E. Asia, U.S.

Teresa Wilson, PhD, Arkansas 2014, Assistant Professor-Research — FACES Lab, forensic anthropology and bioarchaeology

ADJUNCT FACULTY:

Dydia DeLyser, PhD, Syracuse, 1998, Associate Professor — landscape and social memory, cultural, historical, urban, gender, qualitative methods and academic and professional writing

Brooks Ellwood, PhD, Rhode Island, 1977, Professor of Geology & Geophysics — geophysics, stratigraphy, geoarchaeology, magnetic/geophysical/geoarchaeological studies in Europe, Africa, Asia and North America

Diana M. Greenlee, PhD, Washington, 2002, Assistant Professor – Poverty Point Station Archaeologist

Charles McGimsey, PhD, S Illinois U Carbondale, 1995, State Archaeologist — Southeastern archaeology

Phil O'Keefe, PhD, London University, 1974 Professor — political, economic and historical geography

Mark A. Rees, PhD, Oklahoma, 2001, Professor — archaeology

Charles Wayne Smith, PhD, Texas A&M, 1995, Associate Professor, Texas A&M — historical archaeology, artifact conservation, visual anthropology, digital imaging

Imam Xieralie, PhD, 2006, Cincinnati, Associate Professor — GIS, health geography, public policy

EMERITI FACULTY:

Jay D. Edwards, PhD, Tulane, 1970, Professor Emeritus — cultural anthropology, folklore, vernacular architecture, Caribbean and Louisiana

Patrick Hesp, PhD, Sydney, Australia, 1982, Professor Emeritus — coastal geomorphology, coastal and desert dune morphodynamics, coastal zone management

Anthony J. Lewis, PhD, Kansas, 1971, Professor Emeritus — remote sensing, physical, geomorphology, air photo

Richard H. Kesel, PhD, Maryland, 1971, Professor Emeritus — geomorphology, soils, biogeography

Robert A. Muller, PhD, Syracuse, 1962, Former Director, Southern Regional Climate Center — climatology, hydrology, synoptic meteorology, North America

H.J. Walker, PhD, Louisiana State, 1960, Boyd Professor Emeritus — alluvial and coastal morphology, geomorphology, Arctic (Dr. Walker passed away May 30, 2015)

AFFILIATED FACULTY AND STAFF:

Maria Allaire, MA, Louisiana State, 2002, Research Associate — FACES Lab, forensic anthropology, Louisiana Repository for Missing Persons and Unidentified Remains

Luke Driskell, MS, Louisiana State 2010, Computer Analyst

Larry Livaudais, MFA, University of Florida 1996, Imaging Specialist/Research Associate — FACES Lab, facial reconstruction

Kyle Brehe, MS, S. Dakota School of Mines, 2007, Research Associate and Services Climatologist — climatology

John Grymes, MS, Delaware, 1986, Professional in Residence — climatology

Nicole Klein, MA LSU 2014, Research Associate — FACES Lab, forensic and physical anthropology, taphonomy, human variations, paleopathology

Yixin Luo, PhD, Louisiana State University — Systems Manager, Systems engineer/HPC

MAINE

UNIVERSITY OF SOUTHERN MAINE

GEOGRAPHY-ANTHROPOLOGY PROGRAM
DATE FOUNDED: 1971
DEGREES OFFERED: B.A.
GRANTED 9/1/15-8/31/16: 15 Bachelors
MAJORS: 65
CHAIR: Matthew Bampton
DEPARTMENT ADMINISTRATIVE ASST: Karyn Demmons

FOR CATALOG AND FURTHER INFORMATION WRITE TO: University of Southern Maine, 300 Bailey Hall, 37 College Ave., Gorham, Maine 04038. Telephone (207) 780-5321.
Fax (207) 780-5167; (Muskie School of Public Service) (207) 780-4847. Internet: www.usm.maine.edu/gany http://usm.maine.edu/gis/

PROGRAMS AND RESEARCH FACILITIES: The Geography-Anthropology program is part of the Muskie School of Public Service, is affiliated with the Osher Map Library and Smith Center for Cartographic Education, and is the home of USM-GIS. It offers a 36-39 credit hour interdisciplinary undergraduate degree in which students combine both disciplines to study human-environment interrelationships. The major thrust of the program's work at all levels, from teaching to research, is in developing and applying disciplinary skills to real world problem-solving. Six dedicated Geography, GIS and Archaeology laboratories and an array of field equipment support this effort. Students are encouraged to complete an internship or to complete a field school as part of their course of study. They may concentrate in one of three tracks: Sustainable Cultures & Communities; Cultural & Natural Heritage Management, or; Applied GIS and Geospatial Analysis. Geography-Anthropology Teacher Education tracks for both elementary and secondary education are available. Minors are available in anthropology, archaeology, geography, planning and GIS. Students can also earn a 12-14 credit Certificate in Applied GIS. Students can also opt to apply for an accelerated admissions Master's degree in Planning Policy and Management.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The undergraduate academic semester of 12 to 15 hours for full-time status is the current organizational system. Admission requirements are two-track with high school diplomas and adequate SAT scores for traditional students and open admissions with remedial help available for others. Financial aid is available for those who qualify.

FACULTY:

Matthew Bampton, Ph.D., Clark, 1992, Professor — geomorphology, geographic information sciences

Matthew Edney, Ph.D., Wisconsin-Madison, 1990, Professor and Faculty Scholar, Osher Map Library and Smith Center for Cartographic Education — history of cartography, history of geography, historical geography

Nathan D. Hamilton, Ph.D., Pittsburgh, 1985, Associate Professor — Northeast prehistory, Andean Peru prehistory, maritime adaptation, quantitative methods

Yuseung Kim, PhD., University of Colorado, Ph.D., 2010, Associate Professor — agent-based modeling, GIS, planning support systems, sustainable development, land use planning, urban design

Firooza Pavri, Ph.D., Ohio State University, 1999, Professor — human-environment interactions, landscape change, South Asia, remote sensing/GIS

Lydia A. Savage, Ph.D., Clark, 1996, Professor — social geography, urban geography, gender issues, labor unions

Vinton Valentine, Ph.D., University of Delaware, 2003, Adjunct Professor; Director of GIS — GIS, remote sensing, free & open source geospatial software, coastal and marine geography

EMERITI:

Diana C. Crader, Ph.D., UC, Berkeley, 1981, Associate Professor — African prehistory, zooarchaeology, human evolution

Dave D. Davis, Ph.D., Yale, 1975, Professor — archeology, material culture theory, West Indies

Franklin D. Hodges, M.A. Clark, 1966, Associate Professor — geography of Maine, economic geography

Judy Tizon, Ph.D., UC, Santa Barbara, 1975, Associate Professor — cultural anthropology, culture theory, victims of progress, women in cross cultural perspective

MARYLAND

BOWIE STATE UNIVERSITY

DEPARTMENT OF HISTORY AND GOVERNMENT
DEGREES OFFERED: Geography Minor
CHAIR: Dr. Sammye Miller
PROGRAM ADMINISTRATIVE ASSISTANT: Betty Carrico

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of History and Government, 0250 Martin Luther King Jr. Communications Arts Center, 14000 Jericho Park, Road, Bowie, MD 20715, Phone: (301) 860-3600.
Email: bcarrico@bowiestate.edu,
Internet:https://www.bowiestate.edu/academics-research/colleges/college-arts-sciences/departments/history-and-government/

PROGRAMS AND RESEARCH FACILITIES: The Department of History and Government offers a minor in geography. Bowie State University is one of the few Historically Black Colleges and Universities (HBCUs) in the country that offers a minor in Geography. Bowie State University geography faculty specialize in cultural, economic, and regional studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
In order to complete a minor in geography, a student has to complete Elements of Geography I & 2 and any 4 geography electives for a total of 18 credits.

FACULTY:
Sumanth G. Reddy, PhD, Kansas State University 2013, Assistant Professor and Coordinator — Human, medical, tourism, Africa, South Asia.

ADJUNCT FACULTY:
Petronella Muraya, PhD.

FROSTBURG STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1964
DEGREES OFFERED: B.A., B.S.
GRANTED 9/1/14-8/31/15: 27 Bachelors
MAJORS: 94
CHAIR: James C. Saku
DEPARTMENT ADMINISTRATIVE ASST: Gale A. Yutzy

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Frostburg State University, 101 Braddock Rd., 201 Gunter Hall, Frostburg, Maryland 21532. Telephone (301) 687-4369 or 4724. Fax (301) 687-4495.
E-mail: jsaku@frostburg.edu. Internet: www.frostburg.edu/dept/geog/.

PROGRAMS AND RESEARCH FACILITIES: Programs available are a major in Geography with concentrations in Mapping Sciences, Global Systems Analysis, Climate System Science, a major in Earth Science with an Environmental Science concentration and a Teaching Certification option, a major in Environmental Analysis and Planning, and a major in Urban and Regional Planning. An internship program is available with a variety of local, state and federal agencies and firms. The department strives to provide students with a balance of academic and applied preparation.

The department's classrooms, laboratories, and offices are located in a building complete with wireless internet service. Departmental resources include surveying equipment complemented by seven total stations and data collectors, a map library housing a variety of topographic and thematic maps, a soils lab, and rock and mineral specimens. The department houses three well-equipped networked computer labs for geographical data processing. The Environmental Engineering, Geographic Visualization, GeoProcessing, and GiScience labs combined contain a total of 58 workstations, three 42" plotters, one 60" plotter, one 42" scanner, and 5 large-format digitizing tablets. Other peripherals include color printers, laser jet printers, small-scale format scanners, and table-top digitizing tablets. Software available to students includes ESRI's suite GIS software, AUTOCAD, ENVI, Adobe Illustrator, SPSS and Surfer.

The Department operates with the Western Maryland Regional Geographic Information Center geared to research grants and contracts. The Ort Library has federal repository status and maintains a collection of maps, government documents, and geographic journals.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission or financial aid is available from the Office of Admissions. SAT scores are required.

FACULTY:
Phillip P. Allen, Ph.D., Coventry University, UK, 2005, Assistant Professor — physical geography (Quaternary period; last 2.5 million years), historical geology, physical geology, soils genesis and characterization, geomorphic evolution of landscapes, especially in upland and cold climate regions
Tianna A. Bogart, Ph.D., Delaware, 2013, Assistant Professor — physical geography, climatology, global climate modeling, data inaccuracies and bias
Henry W. Bullamore, AICP, Ph.D., Iowa, 1978, Professor — urban, land use, regional planning, research methods, tourism
Craig L. Caupp, Ph.D., Utah State, 1986, Professor — land development and reclamation, environmental impact assessment, water quality modeling, environmental law
Fritz C. Kessler, Ph.D., Kansas, 1999, Professor — cartography, geographical visualization, spatial transformations, cartographic design
Francis L. Precht, Ph.D., Georgia, 1989, GISP, Professor — biogeography, GIScience, conservation, geography of alcohol
Matthew E. Ramspott, Ph.D., 2006, Kansas, Associate Professor — remote sensing, aerial photo interpretation, land use/land cover, biogeography, environmental geography
Richard A. Russo, Ph.D., 2009, University of Maryland, Assistant Professor — cultural, regional and urban geography, geography of food, sustainability issues
James C. Saku, Ph.D., 1995, Saskatchewan, Professor — economic development, North America, human, quantitative analysis, locational analysis, transportation, Sub-Saharan Africa

ADJUNCT FACULTY:
Tracy L. Edwards, M.A., Syracuse, 2010, Adjunct Lecturer — human and physical geography
Adam P. Lewis, M.Ed., Frostburg State, 1994, Adjunct Lecturer — human, physical and world regional geography
Steven M. Guinn, B.S, Frostburg State 2007, Adjunct Lecturer — mapping science

EMERITI:

James V. Cotton, Ed.D., Pennsylvania State, 1958, Professor Emeritus — North America, economic and human geography

Donald W. Duckson, Jr., Ph.D., Colorado, 1979, Professor Emeritus — fluvial geomorphology, hydrology, environmental monitoring and evaluation, surveying, physical geology, and earth-science education

Charles J. Farmer, Ph.D., Maryland, 1984, Professor Emeritus — historical geography, human geography

William Nizinski, M.S., Pennsylvania, 1956, Associate Professor Emeritus — cartography, remote sensing, aerial photo interpretation

John M. Riley, Ph.D., Maryland, 1978, Professor Emeritus — economic geography, conservation, physical geography, geographic education, Maryland and Russia

Thomas W. Small, Ph.D., Wisconsin-Madison, 1973, Professor Emeritus — glacial and pleistocene geomorphology, soils genesis and characterization, soil analysis, historical geology

SALISBURY UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOSCIENCES
DATE FOUNDED: 1955
DEGREES OFFERED: B.S. in Geography and B.S. in Earth Science; M.S. in GIS Management
GRANTED 9/1/14-8/31/15: 52 Bachelors, 8 Masters
MAJORS: 102 Geography, 34 Earth Science, 18 Masters
CHAIR: Brent R. Skeeter
PROGRAM MANAGEMENT SPECIALIST: Jennifer Gordy

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Geosciences, Salisbury University, 1101 Camden Ave., Salisbury, Maryland 21801. Telephone (410) 543-6460. Fax (410) 548-4506.
E-mail: brskeeter@salisbury.edu
Internet: www.salisbury.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Departmental program emphasizes geographic concepts, techniques, skills and their application to the solution of environmental, land use and public planning problems. There are six tracks in the undergraduate Geography major: Atmospheric Science, Environmental/Land Use Planning, Geographic Information Science, Human Geography, Physical Geography, and General Geography. The Department also offers a major in Earth Science, including a track in Secondary Education. An internship program is available for interested students. As a student-centered department, the faculty concentrates on high quality teaching and advising and active engagement in undergraduate research while maintaining an open-door policy.

The Department offers a Master of Science in GIS Management (MSGISM). The MSGISM program is a professional science master's degree, where students focus equally on the science and management of GIS technology. Targeted particularly at practitioners in the public sphere, the program is all on-line. For more information, please see www.salisbury.edu/geography/msgism.

The Department is in the endowed Richard A. Henson School of Science and Technology, and is housed in Henson Science Hall, offering well-equipped "smart" classrooms and modern laboratory facilities. The Department maintains its own computer laboratory, equipped with 42 XP workstations, color and laser printers, plotters, scanners, and digitizing tablets. We have site licenses for ESRI and Manifold GIS products and have a variety of digital image processing and cartographic drawing software. The Department has laboratories dedicated to Physical Geography for instruction and research, a 12,000 sheet (USGS Depository) topographic map collection, a server devoted to spatial data, and a large rock and mineral collection. The Zeta Eta Chapter of Gamma Theta Upsilon and the Geographic Society are available for extracurricular participation. The Department's Eastern Shore Regional GIS Cooperative conducts grant and contract work in GIS, remote sensing and cartography and frequently employs geography majors.

Salisbury University is located on U.S. Route 13 in Salisbury, MD, which has a metropolitan population of 80,000 and lies 30 miles west of Ocean City, MD; 115 miles southeast of Baltimore and Washington, D.C.; and, 125 miles south of Philadelphia.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System, Applications for admission and/or financial aid should be made to the Admissions Office. MSGISM: year-round instruction, new cohorts begins each June with application deadline in February. Application must be made to both SU and to the Department of Geography and Geosciences. See website (above) for details and admission forms.

FACULTY:

Amal K. Ali, Ph.D., Florida State, 2002, Associate Professor — land use planning, urban policy, smart growth

Gina Bloodworth, Ph.D., Pennsylvania State, 2005, Associate Professor — resource management, water resources, environmental policy & law

Thomas R. Cawthern, Ph.D., University of New Hampshire, 2013, Assistant Professor — geochemistry, sedimentology, stratigraphy, marine geology

Xingzhi Mara Chen, Ph.D., Iowa, 1992, Professor — remote sensing, environmental geology, GIS, geosciences education

Ramseyer, Craig A., ABD, University of Georgia, Assistant Professor — climatology and meteorology

Mark de Socio, Ph.D., Cincinnati, 2005, Assosciate Professor — economic geography, political geography, regional economic development, business-state relations

Stuart Hamilton, Ph.D, University of Southern Mississippi, 2012, Assistant Professor — GIS, Remote Sensing, Land Cover Change

Daniel W. Harris, Ph.D, University of Maryland, 2012, Associate Professor — physical, geographic education, GIS

Arthur J. Lembo, Jr., Ph.D., SUNY College of Env. Sci. & Forestry, 1997, Associate Professor — GIS, spatial modeling, extreme event monitoring, cartography, mapping science, quantitative methods

Darren B. Parnell, Ph.D., South Carolina, 2005, Associate Professor — climatology, meteorology, quantitative methods

Michael S. Scott, Ph.D., South Carolina, 1998, Professor — GIS, environmental hazards, cartography

Keota Silaphone, ABD, University of Maryland College Park, Lecturer — GIScience, Terrestrial Nutrient Inputs, Watershed Planning

Brent R. Skeeter, Ph.D., Nebraska-Lincoln, 1988, Professor and Chair — climatology, meteorology, research methods

Vanessa Smullen, M.S., The Johns Hopkins University, Lecturer — Physical Geography, Environmental Engineering, Groundwater, Physical Science

Brent J. Zaprowski, Ph.D., Lehigh, 2001, Professor — geomorphology, coastal processes, sediment analysis, geoscience education

TOWSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL PLANNING
DATE FOUNDED: 1955
GRADUATE PROGRAM FOUNDED: 1970
DEGREES OFFERED: B.A., B.S., M.A., Combined B.A or B.S / M.A.
GRANTED 9/1/14-8/31/15: 38 Bachelors, 9 Masters
STUDENTS IN RESIDENCE: 105 Majors; 27 Masters
CHAIR: Virginia Thompson (vthompson@towson.edu)
GRADUATE COORDINATOR: Charles Schmitz (cschmitz@towson.edu)

FOR CATALOG AND FURTHER INFORMATION: Check the department website at www.towson.edu/geography.
Contact Information: Department of Geography and Environmental Planning, Towson University, 8000 York Rd., Towson, Maryland 21252. Telephone (410) 704-2973.E-mail: geography@towson.edu.

PROGRAMS AND RESEARCH FACILITIES:
UNDERGRADUATE: Towson University offers a major and a minor in Geography and Environmental Planning, a minor in Geographic Information Sciences, a minor in Meteorology, and a major in Geography and Land Surveying in partnership with the Community College of Baltimore County-Catonsville. In addition, the department offers a combined bachelor's / master's program for academically qualified students that enables them to complete both degrees in five years. Geography undergraduates also have the opportunity to participate in combined majors in economics, history, sociology/anthropology, and political science. In addition to coursework, students may participate in directed research, internships, service learning, study away, and travel study. An up-to-date computer lab serves the department's needs in the areas of GIS, statistical analysis, digital cartography, air photo and remote sensing. Among the department's resources are a physical geography lab, a remote weather station serving the university and linked to the National Weather Service, and the Geospatial Research and Education Laboratory, the latter being dedicated to student and faculty research, educational outreach, and service learning. In June 2011 the department moved into a new College of Liberal Arts complex on campus. Towson University is situated just north of Baltimore city, placing it within easy driving distance of Washington, D.C. and Philadelphia with their major research assets. Annapolis is only thirty minutes away. In addition, a number of other universities and colleges, with their complementary facilities are located in and around metropolitan Baltimore. Teaching excellence is a hallmark of the University and of the Department. We are committed to making the academic experience as enjoyable as possible for our students, while assuring that the learning process in as complete as possible. To this end the Department encourages students to consult with their advisors on a periodic basis. In support of the quest for academic excellence, outstanding student papers are published in the Department's Papers in Geography and a departmental lecture series - "What Matters"- is offered each year.

GRADUATE: The program is designed to provide a broad mastery of the field through a balanced curriculum of topical and regional studies with research experiences. Requirements for the M.A. are the successful completion of 36 semester hours for the non-thesis option or 30 semester hours plus a 6-credit thesis, and a reading knowledge of a modern foreign language or quantitative competency. Two major tracks are available in the program: I. Geography and II. Planning. Most courses are taught during the evening hours, and most graduate students are part-time students. Each year the department supports two to three graduate assistants.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Admission to the university is essentially based on evaluation of high school records and the SAT1 or ACT tests. A number of financial aid programs are available; for further information contact: Financial Aid Office, Towson University, 8000 York Road, Towson, Maryland 21252. Telephone (410) 704- 4236 (http://onestop.townson.edu/finaid/).

GRADUATE: Semester system. Admission is based on evaluation of individual applicant's experience, letters of recommendation (minimum of two) and a transcript of previous course work. Admission is competitive; a minimum of three undergraduate geography courses with a G.P.A. of 3.0 or higher is required for full admission.

FULL-TIME FACULTY:
Kent Barnes, Ph.D., Rutgers, 1984, Associate Professor — Natural and technological hazards, environmental planning and impact analysis, quantitative methods, Australia and New Zealand
Nathan Burtch, Ph.D., University of Maryland, expected 2016, Lecturer — Geography of religion, quantitative methods, urban planning, GIS and cartography
Natasha Fath, Ph.D., Moscow State University, Lecturer — Russia, environmental geography, physical, world regional
Sya Buryn Kedzior, Ph.D. University of Kentucky, 2011, Assistant Professor — Pollution knowledge and hydropolitics in the Ganges River Basin.
Kang Shou Lu, Ph.D., Clemson, 2001, Associate Professor — Spatial analysis, landuse planning, tourism management, GIS
Alan Marcus, Ph.D., University of Massachusetts - Amherst, 2008, Associate Professor — Brazil, Latin America, Migration, Race, Cultural Geography, Ethnic Geography
Todd W. Moore, Ph.D., Texas State University-San Marcos, 2013, Assistant Professor — Severe weather hazards and climate change
John M. Morgan III, Ph.D., Maryland, 1980, Professor and Director Emeritus of The Center for Geographic Information Sciences — GIS, outdoor recreation planning and management, remote sensing, Alaska
Martin C. Roberge, Ph.D., Arizona State, 1999, Professor — Environmental, biogeography, GIS
Charles Schmitz, Ph.D., Berkeley, 1997, Professor — Human, Middle East, political ecology, globalization
James M. Smith, Ph.D. Kent State University, 2005, Associate Professor and Director of M.A. Professional Studies Program — Ethnic identities; globalization and politics; East Asia
Jeremy Tasch, Ph.D., Clark, 2006, Associate Professor — Eurasia, Political Ecology, Resource Management
Paporn Thebpanya, Ph.D., Georgia, 2003, Associate Professor — Cartography/geographic visualization, GIS, remote sensing
Virginia Thompson, Ph.D., Oklahoma, 1995, Associate Professor and Chair — Urban, social, regional, geographic education

PART-TIME FACULTY:
Douglas Adams, M.A. — GIS Database Design
D. Brett Collins, M.A. — Human Geography
Karna Couch, M.A. — Physical, Regional, International Affairs
Ashley Enrici, A.B.D. – Human Geography
Charles L. Goodman, M.R.C.P. — Transportation planning, Comprehensive Planning
Jonathan Lesh, M.A. — Physical, Human, Geography of Maryland, Urban Systems
Jeremy Monn, M.A. — Map Interpretation
Henry L. Schupple, Jr., M.A. — World Regional, Physical Geography
Alireza Shahvari, Ph.D. – Physical Geography
Michael Strong, Ph.D. – Geography of Africa, Physical Geography, World Regional

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY (UMBC)

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SYSTEMS
DATE FOUNDED: 1967
GRADUATE PROGRAM FOUNDED: 2008
DEGREES OFFERED: B. A., B. S., a joint Bachelor/Master Degree, M.S., Professional Studies Certificate in GIS, Masters of Professional Studies (MPS) in GIS, PhD
GRANTED 1/1/11-12/31/11: 85 Bachelors
MAJORS: 320 Majors, 56 Masters, 16 Ph.D.
INTERIM CHAIR: Matthew Baker
DEPARTMENT OFFICE MANAGER: Robin Schmidbauer

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Systems, University of Maryland Baltimore County, 1000 Hilltop Circle, Baltimore, Maryland 21250. Telephone (410) 455-2002.
Fax (410) 455-1056. Internet: www.umbc.edu/ges.

PROGRAMS AND RESEARCH FACILITIES: The department offers a B.A. degree in geography & environmental studies, a B.S. in environmental science & geography, and a certificate in GIScience. The department has two graduate programs: a Masters of Professional Studies (M.P.S.) in GIS, and a M.S. and PhD in Geography and Environmental Systems.

The department's undergraduate curriculum includes introductory course work in physical and human geography and environmental science. Students take upper division courses based upon their degree programs (see our website for specifics) but generally all students take a broad range of courses that include human and physical geography, environmental science, environmental studies and GIS. Each students major program is designed in consultation with a faculty advisor in order to ensure both breadth and rigor in academic preparation for graduate school or professional employment. Students are encouraged to complete internships with public agencies, private-sector companies, or nonprofit organizations. Opportunities are also available for involvement in faculty research projects or in student-designed projects that may be funded through competitive awards available from the University.

The Professional Studies Certificate in GIS and the Masters of Professional Studies in GIS are intended to provide an advanced level of education to professionals working in the region's robust geospatial technology industry. The two programs have a particular focus on the information systems and computer science aspects of GIS and are intended to provide professionals with specialized training in the technical and analytical aspects of GIS.

The graduate program has three areas of concentration available to students: (1) Environmental Systems, including water resources and earth-surface processes, ecosystem science, and atmospheric processes; (2) Human Geography, with an emphasis on coupled human-natural systems including the impacts of human activities on the environment, the socioeconomic consequences of environmental degradation, and environmental policy; and (3) Geographic Information Science and Remote Sensing. Research on the urban environment is a particular strength among the opportunities available through our program (UMBC was the recipient of a NSF-funded IGERT (Integrative Graduate Education, Research and Training) grant focused on Water in the Urban Environment that ended in 2010). The areas of concentration identified above are not separate programs and do not have separate application requirements; students may elect to pursue a program of study that draws from multiple areas to suit their particular needs.

The department is at the interface among natural science, social science, public policy, engineering and information technology, with faculty who have background and collaborative relationships in both research and teaching related to all of these areas. The spatial perspective central to Geography as a discipline provides an analytical framework that bridges disciplinary boundaries and utilizes the tools of GIS to assist in our understanding of complex patterns in the natural and human environment. Collaborative relationships with other academic programs on campus include Public Policy, Economics, the School of Aging Studies, Civil and Environmental Engineering, Computer Science, Information Systems, Mathematics and Statistics, Biological Sciences, and Physics.

The environment is a key focus area of education and research on the UMBC campus. In addition to a core group of interested faculty from the natural sciences, social sciences and engineering, the campus hosts the field headquarters of the Baltimore Ecosystem Study (BES), an NSF and U.S. Forest Service-supported Urban Long-Term Ecological Research Site; the Joint Center for Earth Systems Technology (JCET), a NASA/UMBC consortium focusing on earth systems science and the application of remote sensing technology to monitoring of the earth's atmosphere and surface; the Center for Urban Environmental Research and Education (CUERE), focusing on the environmental, social and economic consequences of landscape transformation associated with urban and suburban development; and the U.S. Geological Survey Water Science Center for the MD-DE-DC region, which is located in the campus Research Park with a staff of 60+ personnel. In addition UMBC is a partner, along with several other University of Maryland institutions as well as other research universities and federal agencies, in the Chesapeake Watershed Cooperative Ecosystem Studies Unit (CESU), part of a national CESU network. The concentration of environment-related research activity on campus provides a rich and diverse set of opportunities for prospective graduate students entering our program.

The Department has three labs: a GIS/Remote Sensing lab with a Windows 10 network, currently offering 33 workstations and related peripheral devices with access to ESRI, ERDAS, QGIS, and Agisoft Photoscan software along with selected other packages; the cartography instruction lab has 17 workstations equipped with the capability of producing the highest professional quality graphics; the environmental science lab has 24 seats and supports multiple classes in environmental science and ecology. Additional facilities are available on campus for undergraduate and graduate students working on projects at CUERE, including specialized GIS and visualization laboratories, a hydrology laboratory and local hydrologic data collection networks, and analytical labs for processing of water, sediment and soil samples. USGS has installed field-monitoring stations on campus that can be used for training purposes. There are a broad range of internship opportunities in the region as well as on campus through BES, CUERE, JCET/GEST, and USGS.

UMBC is an outstanding geographic location for students and faculty. Baltimore is within convenient driving distance of New York, Philadelphia, Pittsburgh, and Washington, D.C. The proximity of the Appalachians, the Piedmont, and the Coastal Plain, including the Chesapeake Bay, offers many research opportunities. In addition to UMBC's own library facilities, other research libraries and facilities are readily accessible at the Johns Hopkins University, the University of Maryland College Park, the Pratt Library of Baltimore, the U.S. Department of Agriculture in Beltsville, the Library of Congress, and the National Archives I and II. In addition, the proximity of UMBC to the federal agency universe of the Washington D.C. area (e.g., EPA, Departments of the Interior, Agriculture, Transportation, NASA, NAOA, USFS, NPS, USGS) provides extraordinary opportunities for students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: UMBC is on a semester schedule. A limited number of courses are available in summer and winter sessions. The B.A. requires a minimum of 48 credit hours (44 within the department), the B.S. requires 63 credit hours (39 within the department). The department has two minor degrees, each of which requires 18 credit hours of course work. Interested applicants should write the Director of Admissions, UMBC, for complete instructions and criteria for admission. New freshman applicants must provide SAT scores. Financial aid is available, and interested prospective applicants are encouraged to write the Office of Financial Aid for a listing of programs and requirements. The department also offers a joint Bachelor/Masters degree option.

Graduate: UMBC is on a semester schedule. Students wishing to enter the Ph.D. or M.S. programs in Geography and Environmental Systems must meet the minimum standards for admission to the University of Maryland Graduate School, Baltimore. Candidates for admission must have earned a minimum GPA in the undergraduate degree of 3.0 overall and 3.3 for the major. All applicants must submit scores for the Graduate Record Examination, letters of recommendation, and a statement that outlines education goals and research interests. The department will have a limited number of Graduate Assistantships available. More details are available at our website (www.umbc.edu/ges).

FACULTY:

Dena Aufseeser, Ph.D., University of Washington, 2012, Assistant Professor — Critical Poverty Studies, urban change, international development

Matthew Baker, Ph.D., University of Michigan, 2002, Professor — Ecosystems ecology, stream and riparian ecology, landscape ecology, quantitative methods

Sari J. Bennett, Ph.D., University of Illinois at Urbana-Champaign, 1977, Clinical Associate Professor and Director, Maryland Geographic Alliance — Economic geography, geographic education

Dawn Biehler, Ph.D., University of Wisconsin, 2007, Associate Professor — Health geography, urban environmental history, environmental justice

Suzanne Braunschweig, Ph.D., Virginia Polytechnic Institute and State University, 1993, Senior Lecturer and Director of Interdisciplinary Science Program — Freshwater biology

Erle C. Ellis, Ph.D., Cornell, 1990, Professor — Biogeochemistry, landscape ecology, managed ecosystems

Matthew Fagan, Ph.D., Columbia, 2014, Assistant Professor — Forest ecology, conservation biology, sustainability science

Jeffrey Halverson, Ph.D., University of Virginia, 1995, Professor — Tropical meteorology, hurricanes and severe weather

Margaret Holland, Ph.D., University of Wisconsin-Madison, 2009, Assistant Professor — Conservation and development, Geospatial analysis of human-environment interactions, protected areas

David Lansing, Ph.D., Ohio State, 2009, Associate Professor — Nature-society, environmental policy, agrarian change

Andrew J. Miller, Ph.D., Johns Hopkins, 1983, Professor — Geomorphology, hydrology, water resources

Eugene (Sandy) Parker, Ph.D., University of Colorado, 1981, Associate Professor — Environmental history and conservation, cultural ecology, public lands

Joseph C. School, M.A., Temple, 1983, Instructor and Director of GeoSpatial Labs — Cartography

Colin Studds, Ph.D., University of Maryland, 2009, Assistant Professor — Macrobiology, biogeography, species management strategies in context of global change

Chris Swan, Ph.D., University of Maryland, 2003, Professor — Community ecology, aquatic ecosystems

AFFILIATE FACULTY:

Chris Steele, Ph.D., University of Maryland, 2007, Affiliate Associate Professor — Cultural ecology, contemporary international issues

RESEARCH FACULTY and AFFILIATE RESEARCH SCIENTISTS:

Petya Entcheva Campbell, Ph.D., University of New Hampshire, 2000, Affiliate Assistant Research Professor, Joint Center for Earth Systems Technology (JCET) — Remote sensing of vegetation, vegetation biophysical parameters and spectral response

Peter Groffman, Ph.D., University of Georgia, 1984, Affiliate Research Scientist, Institute of Ecosystem Studies — Environmental regulation of microbes, ecosystem function and nutrient cycling, water and air quality, soil carbon storage

Karl Fred Huemmrich, Ph.D., University of Maryland, College Park, 1995, Affiliate Associate Research Professor, JCET — Remote sensing of ecosystem structure and function

Amita Mehta, Ph.D., Florida State University, 1991, Affiliate Assistant Research Professor, JCET — Remote Sensing, Climate Variability

Steward T. A. Pickett, Ph.D., University of Illinois at Urbana-Champaign, 1977, Affiliate Research Scientist, Baltimore Ecosystem Study — Urban ecosystems, function of landscape boundaries, plant community succession

Lorraine Remer, Ph.D., University of California, Davis, 1991, Affiliate Research Professor, JCET — Atmospheric Science

Chris Shuman, Ph.D., Pennsylvania State University, 1992. Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — Cryosphere, Remote Sensing of Ice Sheets, Antarctica

Ali Tokay, Ph.D., University of Illinois at Urbana-Champaign, 1993, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — Cloud and precipitation physics, severe storms

Kevin Turpie, Ph.D., University of Maryland, 2012, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — Ocean remote sensing, ocean ecology, coastal wetlands

EMERITI FACULTY:

Roger N. Dubois, Ph.D., University of Wisconsin, 1972, Associate Professor — Geomorphology

Robert J. Earickson, Ph.D., University of Washington, 1968, Associate Professor — Urban, medical geography

Keith D. Harries, Ph.D., UCLA, 1969, Professor — Social, urban, GIS applications

UNIVERSITY OF MARYLAND, COLLEGE PARK

DEPARTMENT OF GEOGRAPHICAL SCIENCES
DATE FOUNDED: 1942
GRADUATE PROGRAM FOUNDED: 1942
DEGREES OFFERED: BS, BS/MS program addition (contingent), Master of Professional Studies in GIS (MPS/GIS), Ph.D.
GRANTED SPRING 2015: 71 Bachelors, 32 MPS/GIS, 5 Graduate Certificates in GIS, 9 PhDs.
STUDENTS: 250 Majors, 95 MPS/GIS, 72 Ph.D.
CHAIR: Chris Justice
DIRECTOR OF ADMINISTRATION: Vivre Bell
GRADUATE APPLICATION COORDINATOR: Rachel Berndtson
GRADUATE DIRECTOR: Laixiang Sun

FOR FURTHER INFORMATION CONTACT: Department of Geographical Sciences 2181 LeFrak Hall, University of Maryland at College Park, College Park, MD 20742-8225.
Telephone (301) 405-4050. Fax (301) 314-9299.
Internet sites: Department, www.geog.umd.edu;
Campus, www.umd.edu.

RESEARCH FACILITIES AND PROGRAMS: The University of Maryland, Department of Geographical Sciences maintains one of the most active externally funded geographic research programs in the U.S.A. Over the last two decades, this research has rapidly expanded and evolved to address the growing importance of geographical issues in public policy and research. In addition to the Teaching Faculty, there are ~100 Research Faculty in residence. The Department is housed in 25,000 sq. ft. on the main College Park campus and (11,000 sq. ft.) in an off-campus research building (Hartwick). Three teaching laboratories are dedicated to computer-based instruction of geospatial information sciences with over 75 PCs dedicated to teaching and graduate research. The research laboratories support Linux, and high-end PC machines, with very high performance processors and multi-terabyte RAID arrays. An extensive range of software is available, including satellite data processing, image analysis, and ESRI GIS packages. Many opportunities exist for students to participate in externally funded research projects and field research. Scalable, shared departmental HPC resources are available for graduate students and faculty to use and research projects to build on. The Department has recently developed a Center for Geospatial Information Science (CGIS) with faculty joint appointments in the University's Institute for Advanced Computer Studies (UMIACS). The Center offers short courses on advanced geospatial methods. The Department has also recently established a Joint Carbon Cycle Science Center with the NASA Goddard Space Flight Center, with opportunities for graduate fellowships.

Research specializations in the department cover four major areas:

Human Dimensions of Global Change: The department's ultimate research goal is to advance an integrated understanding of the coupled Earth system including spatially distributed human processes. Our research addresses both fundamental and applied issues in coupled human and natural systems, such as population, socio-economic development, consumption and production, poverty, climate impacts and adaptation, vulnerability and mitigation, as well as the examination of policy options and trade-offs on sustainability. Our scientists investigate both the human socio-economic system and the climate system, and their linkages.

Geospatial Information Science and Remote Sensing: Collecting and interpreting geospatial data is central to everything we do as geographers, whether on computers or in the field. From local events to multi-scale processes, our faculty are developing and applying advanced remote sensing capabilities and GI Science that will help us to develop the next generation of GI technologies and understanding of the world's geography. The Department is renowned for its satellite remote sensing. Our strengths include sensor calibration and design, image processing and global product development, advanced computer modeling, scientific and geographic visualization, geocomputing, spatial statistics, and semantic learning.

***Land Cover-Land Use Change*:** Land-cover and land-use change is a key interface between human and natural systems. Our scientists are world leaders in the remote sensing of land-cover change. This information is actively combined with human socio-economic data to study past land cover and land use change and to inform advanced modeling of spatially-explicit future scenarios. These methods are used to simultaneously address social, economic, carbon, climate, biodiversity and other aspects of land-use changes. We developed global monitoring systems for agriculture, fire, droughts, floods, desertification, and other catastrophic events, to study societal impacts, adaptation and vulnerability.

***Carbon, Vegetation Dynamics and Landscape-Scale Processes*:** The department carries out a broad array of research focused on monitoring vegetation dynamics, with a particular focus on mapping and studying human and natural disturbances and their landscape-scale impacts, as well as changes to the earth surface as a result of climate variability. This research involves integration of field-based research with remotely-sensed observations to address key scientific uncertainties. Alterations to the global carbon cycle are changing atmospheric composition and climate with implications for human well-being and a particular focus of our research is on monitoring and modeling the terrestrial carbon cycle with unprecedented sophistication and resolution.

The Washington, D.C. Metropolitan area is an exceptional location in which to pursue geographic research. Many national and international agencies and organizations are within a short distance of the campus. Major national research laboratories are close by, including the NASA Goddard Space Flight Center, the Joint Global Change Research Institute, the USDA Beltsville Agricultural Research Center, the National Archives, Bureau of the Census, National Institutes of Health, USGS, National Geospatial-Intelligence Agency (NGA), NOAA and the Offices of the US Global Change Research Program. International and non-governmental agencies are also located within easy reach, including Conservation International, The Nature Conservancy, World Wildlife Fund, the World Bank, the National Geographic Society, and many others. Corporations, businesses, and nonprofit organizations that use geographical applications are also well represented. Libraries on campus and nearby are unrivaled anywhere in the world. The University of Maryland is also located in a region of extraordinary geographic diversity, including two major urban centers (Baltimore and Washington, D.C.), the Appalachian Mountains, Piedmont, Coastal Plain, Chesapeake Bay, and the Atlantic Coast.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The College Park campus operates on a semester system. Admission applications are received for freshman and transfer-student admission. To apply online, go to www.geog.umd.edu/landing/undergraduate or e-mail geog-advise@umd.edu with any questions. UMD Geographical Sciences offers major programs in Geography and GIS/ Remote Sensing. Associated with these programs, the Department offers an honors program that allows undergraduates to work closely with a faculty mentor on independent research. In addition, the Department participates in the cross-campus Environmental Science and Policy (ENSP) program. Within ENSP, a multidisciplinary degree, Geography specifically sponsors (1) Land Use, (2) Global Environmental Change, and (3) Marine and Coastal Management concentrations. The Department also offers a Minor in Geographic Information Science (GIS). This Minor is designed to give undergraduate students from other majors the technical skills needed to acquire, manage, and analyze geographic data. For more detailed information on all undergraduate programs, see the department's web site at: www.geog.umd.edu/landing/undergraduate or email us at geog-advise@umd.edu.

Graduate: The Department of Geographical Sciences at UMD offers a PhD degree in Geography. In addition, the Department offers a Master of Professional Studies (MPS) degree in Geospatial Information Sciences, http://www.geog.umd.edu/gis/ as well as a graduate certificate in GIS. Admission to the Graduate program does not require prior geography studies and students from related physical and social sciences are encouraged to apply. Closing date for applications is December 15 for Fall admissions for the PhD program, and July 31 for the MPS Graduate Certificate in GIS programs. Full details of University graduate regulations can be found in The Graduate Catalog, available at

http://www.gradschool.umd.edu/catalog/programs/geog.htm. Details of the Geography graduate degree requirements are regularly updated and available at www.geog.umd.edu.

The Master's Program: a 5 year BS/MS program option is offered to our best undergraduate students in their junior year.

The PhD Program: Admission to PhD program requires sponsorship by at least two Department Faculty members as well as meeting the admission requirements: cumulative undergraduate GPA of 3.3, GRE verbal 600 and good quantitative score (650 or better). Foreign applicants must submit a Test of English as a Foreign Language (TOEFL, IBT 100). In addition, three letters of recommendation are required along with a statement of objectives and specialization consonant with current faculty specialties. Details on course requirements prior to advancement to candidacy, for students entering the program with a Masters and Bachelors degree can be found at geog.umd.edu/graduate/requirements.

The MPS GIS and GC GIS Program: The Master of Professional Studies (MPS) degree in Geospatial Information Sciences offers comprehensive training in the key areas of GIS, including geographic information sciences, remote sensing techniques, spatial analytical methods, modeling, and specialized computer programming tailored to GIS needs. The MPS Graduate Certificate in GIS offers a 12-credit overview of Geospatial Information Sciences from the same topical areas. Master's degree and certificate requirements, as well as admission requirements and application forms, are posted on the web at: http://www.geog.umd.edu/gis/.

FINANCIAL AID: Financial Aid in the form of teaching assistantships, research assistantships, and various fellowships are available. Salary for a part-time (20 hrs/week) 9.5 month TA or GRA starts at $19,183 plus full tuition remission and an option for health insurance, and goes to $ 20,633 for a PhD student advanced to candidacy. Some opportunities exist for funding during the summer months. For more information on the graduate programs, contact the graduate advising office: phone, (301) 405-8085; email, rberndts@umd.edu; or the Graduate Director, Dr. Laixing Sun: phone, (301) 405-4556; lsun123@umd.edu . For information on the MPS GIS program go to http://www.geog.umd.edu/gis/.

TENURED/TENURE-TRACK PROFESSORS:

Giovanni Baiocchi, Ph.D., Durham University, Associate Professor* – environmental and ecological economics, computational economics

Leila DeFloriani, Ph.D., University of Genova, 1977, Professor* – geometric modeling for scientific visualization, terrain modeling and computer graphics, and topological data analysis

Ralph Dubayah, Ph.D., UC Santa Barbara, 1991, Professor and Associate Chair* – climatology, remote sensing, spatial analysis, space-borne LiDAR

Martha Geores, Ph.D., UNC Chapel Hill, 1993, Associate Professor* – population and environmental interactions, natural resource definition, landscape, human dimensions of global change

Matthew Hansen, Ph.D., University of Maryland, 2002, Professor* – land cover/land use change mapping, remote sensing, algorithm development

Klaus Hubacek, Ph.D., Rensselaer Polytechnic Institute, 2000, Professor* – human dimensions of global change, sustainable development, ecological economics

George C. Hurtt, Ph.D., Princeton, 1997, Professor and Research Director* – theory and application of community and ecosystem ecology, mathematical models

Christopher Justice, Ph.D., University of Reading, UK, 1977, Professor and Chair* – global change, land cover/land use change, remote sensing, agricultural monitoring, fire monitoring, observation systems

Eric Kasischke, Ph.D., Michigan, 1992, Professor* – remote sensing, boreal forest ecology, fire ecology of boreal ecosystems, carbon cycling

Shunlin Liang, Ph.D., Boston University, 1993, Professor* – cartography, numerical methods, remote sensing

Tatiana Loboda, Ph.D., Maryland, 2008, Associate Professor* – impact assessment of single and repeated burning on tundra ecosystems of Alaska, supporting the global agenda for malaria eradication via space-time modeling of malaria in SE Asia

Grant McKenzie, Ph.D., University of Santa Barbara, 2015, Assistant Professor – GIS/remote sensing, geospatial data analytics and design

Julie Silva, Ph.D., Rutgers University, 2005, Associate Professor* – uneven economic development in sub-Saharan Africa, environmental justice, human dimensions of global change

Kathleen Stewart, Ph.D., University of Maine, 2001, Associate Professor* – temporal GIS, event modeling for dynamic GIS, spatiotemporal accessibility, geospatial semantics, geospatial ontologies, spatiotemporal information retrieval

Laixing Sun, Ph.D., Netherlands Institute of Social Studies, 1997, Professor and Graduate Director* – regional sciences and economics, climate change mitigation and adaptation

Paul Torrens, Ph.D., University College London, 2004, Associate Professor and Director of the Center for GIS* – GIS, computer modeling, computer graphics, spatial behavior, urban geography

LECTURERS:

Allen B. Eney, M.A., University of Maryland, 1985 – Maryland and the Chesapeake, human dimensions

Ruibo Han, Ph.D., University of Ottawa, 2012 – GIS and remote sensing

Eunjung Lim, Ph.D., SUNY at Buffalo, 2009 – spatiotemporal analysis, GIS modeling, programming

Ronald Luna, Ph.D., University of Maryland, 2009, Undergraduate Director – Latin-American migration, transnationalism, cultural spaces,

Jianguo Ma, Ph.D., Cornell, 2006, MPS/GIS Program Director – Renewable energy and sustainable development

Jonathan Resop, Ph.D., Virginia Tech, 2010 – Modeling of environmental, hydrological, agricultural and ecological systems

Joseph Trocino, B.A., University of Maryland, 1967 – study abroad programs focused on the Caribbean Archipelago

Keith Yearwood, Ph.D., University of Florida – fluvial geomorphology

Naijun Zhou, Ph.D., University of Wisconsin, 2005* – Geographical Information Science

Mila Zlatic, Ph.D., University of Belgrade, 1988 – urban geography and socio-political change and study abroad programs

RESEARCH PROFESSORS:

Varaprasad Bandaru, Ph.D., University of Delaware, 2009, Associate Research Professor – geospatial modeling of agricultural systems, biofuels, crop yield modeling, cropland carbon dynamics

Inbal Becker-Reshef, Ph.D., University of Maryland, 2012, Research Assistant Professor* – application of satellite information for agricultural monitoring at national and global scales

Molly Brown, Ph.D., University of Maryland, 2002, Associate Research Professor – nature-society interface, food security, agricultural development

Louise Chini, Ph.D., Cornell, 2003, Research Assistant Professor – global land-use change, coupled human-natural systems, Earth system science

Ariane De Bremond, Ph.D., UC Santa Cruz, Research Assistant Professor – climate change and development, socio-economic teleconnections and interactions with land-use change processes, REDD

Jan Dempewolf, Ph.D., U. of Maryland, 2007, Research Assistant Professor* – agriculture and supporting ecosystem services, vegetation fire and land cover dynamics, remote sensing

Evan A. Ellicott, Ph.D., University of Maryland, 2009, Research Assistant Professor – land cover and land use change, fire ecology, remote sensing

William Emanuel, PhD, Oklahoma State University, 1975, Research Professor – global carbon cycle, terrestrial processes, land-cover/land use changes

Kuishuang Feng, Ph.D., University of Leeds, 2011, Research Assistant Professor – sustainable consumption and production, human dimensions of global change

Min Feng, Ph.D., Chinese Academy of Sciences, 2008, Research Assistant Professor – ecosystem services and hydrological modeling with intensive data and computation, geo-spatial based environment model development and integration

Belen Franch, Ph.D., Research Assistant Professor – surface albedo, atmospheric correction in the solar spectrum, agricultural monitoring

Louis Giglio, Ph.D., U. of Maryland, 2006, Research Associate Professor – global fire monitoring and fire emissions, remote sensing, and satellite direct broadcast applications

Samuel N. Goward, Ph.D., Indiana State, 1979, Research/Emeritus Professor* – remote sensing, climatology, numerical analysis, modeling

Pierre Guillevic, Ph.D., Paul Sabatier University, 1999, Research Associate Professor – earth surface properties, ecosystem, hydro processes

Tao He, Ph.D., University of Maryland, Research Assistant Professor – land surface energy budget, data fusion on satellite products

Michelle Hofton, Ph.D., Durham University, 1995, Research Associate Professor* – topographical measurements and applications

Chengquan Huang, Ph.D., University of Maryland, 1999, Research Professor* – land cover, land cover change, vegetation modeling, image analysis

Roberto César Izaurralde, Ph.D., Kansas State, 1985, Research Professor* – soil organic matter dynamics and greenhouse gases in agricultural systems, ecosystem response to climatic change

Mengxue Li, Ph.D., Wuhan University of Technology, 2009, Research Associate Professor and Director of International Programs – data and government policy, land cover/land use change, international S & T Cooperation in Earth Observation Area

Janet Nackoney, Ph.D., University of Maryland, 2012, Research Assistant Professor – conservation land-use planning, habitat fragmentation, land use/land cover change and deforestation monitoring, food security

Jyoteshwar Nagol, Ph.D., University of Maryland, 2011, Research Assistant Professor – remote sensing of vegetation dynamics, agriculture and irrigation, near surface remote sensing using small UAVs

Peter Potapov, Ph.D., Russian Academy of Science, 2005, Research Associate Professor* – forest mapping and monitoring, optical remote sensing

Stephen Prince, Ph.D., University of Lancaster, 1971, Research/Emeritus Professor* – biogeography, remote sensing, dryland ecohydrology and plant functional properties at regional to global scales

Ritvik Sahajpal, Ph.D., University of Maryland, 2014, Assistant Research Professor – geostatistics, multivariate analysis, machine learning

Wilfrid Schroeder, Ph.D., University of Maryland, 2008, Research Associate Professor – remote sensing of active fires, biomass burning emissions modeling, land cover/land use change in Amazonia, remotes sensing using UAVs

Fernando Sedano, Ph.D., UC Berkeley, 2008, Research Assistant Professor – remote sending sensor integration at medium spatial resolution, forest degradation in African tropical woodlands, forest fire dynamics in boreal ecosystems

Joseph Sexton, Ph.D., Duke University, 2009, Research Assistant Professor – spatio-temporal ecosystem dynamics, sustainable ecosystem management

Sergii Skakun, Ph.D., Space Research Institute Ukraine, 2005, Assistant Research Professor – agriculture monitoring, remote sensing

Guoqing Sun, Ph.D., University of California, 1990, Research Professor* – remote sensing of environment, back-scatter modeling, image processing, forest ecosystems

John Townshend Ph.D., University College London, 1971, Research/Emeritus Professor* – land cover dynamics, remote sensing, information systems

Krishna Prasad Vadrevu, Ph.D., Osmania University, 2000, Research Associate Professor* – ecology, remote sensing, spatial analysis

Dongdong Wang, Ph.D., University of Maryland, 2009, Research Assistant Professor* – remote sensing, spatial analysis

Alyssa Whitcraft, Ph.D., University of Maryland, 2014, Research Assistant Professor – agriculture, monitoring and mapping of global agriculture characteristics and processes

Feng Zhao, Ph.D., Boston University, 2010, Research Assistant Professor – LiDAR remote sensing, forest disturbance and regrowth, terrestrial carbon cycle, wetland studies

Maosheng Zhao, Ph.D., Chinese Academy of Sciences, 2001, Research Assistant Professor – using satellite data and ecosystem models to quantify carbon, water and energy fluxes between terrestrial ecosystems and the atmosphere and their changes

POSTDOCTORAL SCHOLARS:

Ben DeVries, PhD, Wageningen University, 2015 – Landsat, Sentinel, land-cover changes, time series, surface water, eco dynamics

Katelyn Dolan, PhD, University of Maryland, 2015 – forest-carbon mapping/monitoring, lidar tech, field data and modeling

Junchuan Fan, M.S., University of Iowa, 2015 – geospatial semantics

Wenli Huang, PhD, University of Maryland, 2015 – active remote sensing of forests, satellite monitoring of water

Huiran Jin, Ph.D., State University of New York, 2013 – GIS, Land cover/land use classification and biomass estimation

Curtis Jones, Ph.D., University of Florida, 2013 – modeling biogeochemical cycling within agricultural systems

Do-Hyung Kim, Ph.D., University of Maryland, 2015

Wenjian Ni, Ph.D., Institute of Remote Sensing Applications Chinese Academy of Sciences, 2009 – SAR and Lidar data processing, algorithms for exploring estimation of parameters of forest structure, earth system science

Patricia Oliva, Ph.D., University of Alcala, 2010 – active fire detection, burned area mapping, post-fire effects assessment

Khaldoun Rishmawi, Ph.D., University of Maryland, 2013 – land degradation, biophysics, vegetation dynamics, remote sensing

Xiaopeng Song, Ph.D., University of Maryland, 2015 – satellite monitoring of land cover/land use change, deforestation, urbanization

Hao Tang, Ph.D., University of Maryland, 2015 – characterizing 3D dynamics of terrestrial ecosystems using lidar remote sensing platforms

Svetlana Turubanova, Ph.D., Russian Academy of Science, 2002 – forest ecology, remote sensing

Alexandra Tyukavina, Ph.D., University of Maryland, 2015 – remote sensing, forest cover change, carbon dynamics

Lei Wang, Ph.D., Chinese Academy of Sciences, 2009, Research Associate – urbanization and global environment change, global forest loss

Feng Robin Zhao, Ph.D., University of Maryland, 2015 – landscape succession simulation, carbon modeling, forest inventory, growth modeling

FACULTY SPECIALISTS:

Bernard Adusei, M.S., University of South Dakota, 2006
Alice Alstatt, M.S., University of Nevada, 1994
Brian Barker, M.A., University of Maryland, 2012
Saurabh Channan, M.S., Johns Hopkins, 2004
Casper Chung, M.A., University of Maryland

Charlene M. Dimiceli, B.S., Portland State, 1980
Allison Gost, M.S., University of Maryland, 2015
Amy Hudson, B.S., University of Maryland
Michael Humber, M.S., University of Maryland, 2014
Christina Justice, M.S., University of Maryland, 2015
Christine Kang, M.A., University of Maryland, 2011
Maureen Kelly, B.S., University of Maryland
Indrani Kommareddy, M.S., Dakota State University, 2008
Alexander Krylov, M.S., Moscow State Forest University
Patrick McDonough, B.S., University of Maryland, 2015
Katie McGaughey, M.S., University of Edinburgh, 2011
Giuseppe Molinario, M.A., University of Maryland, 2010
Emilie Murphy, M.S., University of Toulon-Var, 2005
Jacob Noel, M.A., University of Maryland
Jack O'Bannon, M.A., University of Virginia, 1997
Ashwan Reddy, M.S., George Mason University
Demian Rybock, B.S., University of Washington, 1997
Antonio Sanchez, B.S., University of Salamanca, 2006
Robert A. Sohlberg, B.S., University of Maryland, 1996
Mark B. Sullivan, B.S., University of Maryland, 1999
Will Walsh, B.S., Clemson University, 2011

ADJUNCT FACULTY:

Martha Anderson, Ph.D., University of Minnesota, 1993, Adjunct Professor – Research Physical Scientist USDA-ARS hydrology and remote sensing lab

*Luigi Boschetti**, Ph.D., Politecnico di Milano, 2005, Adjunct Associate Professor* – global scale applications of low and medium resolution satellite data, remote sensing of fire, multitemporal algorithms, REDD+

George James Collatz, Ph.D., Stanford, 1979, Adjunct Professor – global carbon cycle planning and research

Ivan Csiszar, Ph.D., Eotvos Lorand University, Budapest, 1996, Adjunct Associate Professor* – remote sensing, fire science, meteorology

Scott J. Goetz, Ph.D., Maryland, 1996, Adjunct Associate Professor* – remote sensing, biogeography, global terrestrial carbon flux modeling, forest ecology

*Dean Hively**, *Ph.D., Cornell, 2004, Adjunct Associate Professor* – soil science, remote sensing, watershed biogeochemical processes, GIS, resource conservation

Anthony Janetos, Ph.D., Princeton, 1980, Adjunct Professor – integrated assessment and analysis of global change modeling

Jeffrey G. Masek, Ph.D., Cornell, 1994, Adjunct Associate Professor* – land cover change in temperate environments, advanced computing in remote sensing, satellite remote sensing techniques

Doug Morton, Ph.D., Maryland, 2008 Adjunct Assistant Professor – land cover change in tropical forests, remote sensing methods, ecosystem modeling

Jun Qin, Ph.D., Beijing Normal University, Adjunct Associate Professor – quantitative remote sensing, data assimilation, climatology

David Roy, Ph.D., Cambridge, UK, 1993, Adjunct Professor* – land use change and fire, terrestrial remote sensing

Compton J. Tucker, Ph.D., Colorado, 1975, Adjunct Professor* – forestry, satellite remote sensing, AVHRR, tropical deforestation

Eric Vermote, Ph.D., University of Lille, 1990, Adjunct Professor* – climate data records, radiative transfer, land surface reflectance, thermal (longwave) radiation, fire, aerosols

Darrel Williams, Ph.D., Maryland, 1989, Adjunct Professor – forest ecosystems, remote sensing measurements, physiological ecology

***Members of the Graduate Faculty who have served or are serving on dissertation and thesis committees.**

U.S. CENSUS BUREAU

OFFICE OF THE ASSOCIATE DIRECTOR FOR DECENNIAL CENSUS PROGRAMS
CHIEF GEOSPATIAL SCIENTIST: Timothy F. Trainor
GEOGRAPHY DIVISION CHIEF: Deirdre Dalpiaz Bishop

SCOPE OF OPERATIONS: The Geography Division's activities involve update and maintenance of a digital geographic database (TIGER) and a master address file for the United States, Puerto Rico, and related Island Areas; establishment of criteria for delineating statistical geographic entities, and delineation of such entities or involvement with their delineation by others; collection and maintenance of information about legally established geographic entities; improvement of methods used to attain accurate, complete, and current address and geographic information, including use of global positioning and geographic information systems; production of a variety of maps at various scales to show selected information; dissemination of geospatial information in digital form; and conducting research and developing standards to meet the Census Bureau's obligations for geospatial data.

Office of the Geographic Operations Advisor: *Kaile Bower*
Geographic Support Systems Program Manager: *Matthew Zimolzak*

DEPUTY CHIEF: *Gregory Hanks*

ASSISTANT DIVISION CHIEFS:
Address and Spatial Data Update: *Andrea Johnson*
Geographic Partnerships, Data Collection, and Products: *Laura Waggoner*
Geographic Program Management: *Vacant*
Geographic Standards, Criteria, Research, and Quality: *Michael Ratcliffe*

BRANCHES:
Address Data Collection and Products Branch: *Brian Timko, Chief*
Address Frame Update Branch: *Robert Damario, Chief*
Address and Spatial Analysis Branch: *Lee Wentela, Chief*
Address Standards, Criteria, Quality Branch: *Stuart Irby, Chief*
Cartographic Products and Services Branch: *Kevin Hawley, Chief*
Federal Geographic Coordination Branch: *Lynda Liptrap, Chief*
Geographic Customer Service Branch: *Trudy Suchan, Chief*
Geographic Programs Budget Branch: *Emily Krutsch, Chief*
Geographic Project Management Branch: *Ross Davis, Chief*
Geographic Research and Innovation Staff: *John Liadis, Chief*
Geographic Standards, Criteria, and Quality Branch: *Vincent Osier, Chief*
Geo-Location and Imagery Branch: *Joanne Aikman, Chief*
Partnership Communications and Outreach Branch: *Carrie Hritz, Chief*
Spatial Data Collection and Products Branch: *Ryan Short, Chief*
Spatial Data Update Branch: *Daniel Keefe, Chief*

POPULATION DIVISION CHIEF: *Karen Hume*
POPULATION GEOGRAPHY STAFF: *James Fitzsimmons, Chief*

SCOPE OF OPERATIONS: The Population Division's activities involve analysis of the population (both domestic and international) and its social and demographic characteristics, including study of the geographic distribution of the population and its geographic mobility, representing data in statistical and cartographic forms, and delineation of selected statistical geographic entities. Data programs in which the division participates include the Decennial Census of Population and Housing, the Population Estimates Program, the Current Population Survey, and the American Community Survey.

SOCIAL, ECONOMIC, AND HOUSING STATISTICS DIVISION CHIEF: *Victoria Velkoff*

ASSISTANT DIVISION CHIEF FOR SOCIAL CHARACTERISTICS: *Jennifer Ortman*

SCOPE OF OPERATIONS: The Housing and Household Economic Statistics Division's activities involve production and analysis of data on the characteristics of the population. This includes the study of the geospatial aspects of geographic mobility, place of work, and commuting. Data programs in which the division participates include the Decennial Census of Population and Housing, the Survey of Income and Program Participation, the Current Population Survey, and the American Community Survey.

Journey-to-Work and Migration Statistics Branch: *Alison Fields, Chief*

CENSUS REDISTRICTING AND VOTING RIGHTS DATA OFFICE CHIEF: *James Whitehorne*
ASSISTANT CHIEF: *Colleen Joyce*

SCOPE OF OPERATIONS: The Census Redistricting and Voting Rights Data Office is responsible for planning, managing and evaluating the Census Bureau's Redistricting Data Program to ensure the Secretary of Commerce and the Director of the Census Bureau have met the legal requirements of Public Law 94-171 (Title 13). This law amended Title 13, U.S.C. to require the secretary (who delegates responsibility to the Census Director) to work closely with each state on a nonpartisan basis, to determine what Decennial Census data are needed to redraw state legislative and Congressional districts after each census. The Census Redistricting and Voting Rights Data Office also is responsible for the coordination and production of the Section 203 determinations as required by the newly reauthorized Voting Rights Act.

FIELD DIVISION CHIEF: *Albert E. Fontenot (Acting)*
ASSISTANT DIVISION CHIEF FOR GEOGRAPHY AND DATA COLLECTION: *Gail Leithauser*

SCOPE OF OPERATIONS: The Field Division plans, coordinates, and carries out the Census Bureau's field data collection programs; maintains and administers a field organization through its regional offices, temporary regional census centers, and temporary local census offices and other field offices; delineates selected statistical geographic entities in cooperation with appropriate governmental and nongovernmental officials; and provides for the effective deployment of field personnel to assure the efficient conduct of the collection of geographic and address information and census data. The Field Division's six regional offices employ geographic staff in Atlanta, Chicago, Denver, Los Angeles, New York, and Philadelphia.

Address Coverage Operations Branch: *Karen Field, Chief*
Decennial Data Collection Branch: *Bryn Johnson, Chief*
Geographic Support Branch: *Heidi Crawford, Chief*
Special Place/Group Quarters Branch: *Amy Fischer, Chief*

MASSACHUSETTS

CLARK UNIVERSITY

GRADUATE SCHOOL OF GEOGRAPHY
DATE FOUNDED: 1921
GRADUATE PROGRAM FOUNDED: 1921
DEGREES OFFERED: B.A. and Ph.D. in Geography, B.A. in Global Environmental Studies, B.A. in Environmental Science: Earth Systems Science Track. Accelerated M.S. in Geographic Information Sciences, M.S. in Geographic Information Sciences for Development and Environment
GRANTED 9/1/14-8/31/15: 22 in Geography Bachelors; 15 in Global Environmental Studies Bachelors; 3 Environmental Science: Earth Systems Science Track Bachelors; 6 Ph.Ds, 1 Masters of Art (M.A.) in Geography (predoctoral); 5 M.S. in GIS; 17 M.S. in Geographic Information Sciences for Development and Environment
STUDENTS IN RESIDENCE: 90 Geography Majors; 18 Global Environmental Studies Majors; 11 Environmental Science: Earth Systems Science Track majors; 60 Ph.D.; 7 M.S. in GIS; 51 M.S. in Geographic Information Sciences for Development and Environment
NOT IN RESIDENCE: 5 Ph.D., 4 M.S. in GIS
DIRECTOR: Anthony J. Bebbington
DEPARTMENT ADMINISTRATOR: Christine Creelman

FOR FURTHER INFORMATION WRITE TO: Assistant to the Director, Graduate School of Geography, Clark University, 950 Main St., Worcester, Massachusetts 01610-1477;
Telephone: (508)793-7336; Fax: (508)793-8881;
Email: geography@clarku.edu;
Internet: www.clarku.edu/departments/geography.

PROGRAMS AND RESEARCH FACILITIES: The Graduate School of Geography at Clark provides institutional and programmatic alternatives to conventional North American doctoral programs. The School is central to a private institution of approximately 2,300 undergraduates and 1100 graduate students. A liberal arts tradition is joined with the University-College in which faculty, graduate students, and undergraduates engage in joint teaching and research and cross-disciplinary exchange. The School offers an undergraduate and doctoral program covering all domains of Geography and an interdisciplinary undergraduate degree in Global Environmental Studies. An Earth System Science (ESS) concentration is offered to those majoring in the interdepartmental/interdisciplinary Environmental Science major. The undergraduate program permits qualified students to enter an Accelerated M.S. in GIS program. The graduate program in geography accepts students holding either a B.A./B.S. or M.A./M.S. and seeking a Ph.D. only. Although not required for the Ph.D. program, a Master's degree is available en route to the doctorate. An M.S. in GIS for Development and Environment (GISDE) is also available (see below).

The School includes 19 faculty members with teaching and research interests that cover the breadth of geography and cut across disciplinary boundaries. Faculty and students in the School maintain a high level of grant- and contract-supported research conducted throughout the world dealing with human-environment, remote sensing-GIS, urban-economic, earth system science, global change, globalization, and related themes; specific ongoing projects can be found on the School's web site (www.clarku.edu/departments/geography). In addition, the School

publishes *Economic Geography*, an internationally peer-reviewed journal founded in 1925 and owned by Clark University. *Economic Geography* is currently ranked 5th in Geography and 23rd in Economics with ISI 2-year citation impact factor of 2.735 and 5-year citation impact factor of 5.489 (2014) (www.clarku.edu/econgeography). The School is closely linked to the George Perkins Marsh Institute (www.clarku.edu/departments/marsh/) and the Jeanne X. Kasperson Research Library that facilitates interdisciplinary and multi-institutional research on nature-society relationships. The School also works closely with Clark Labs, a research center that developed within the School. Clark Labs creates and distributes the TerrSet software system (including Idrisi, the Earth Trends Modeler and the Land Change Modeler), and conducts research in GIScience, Earth Information Science, and Conservation GIS. Finally, the School has initiated a collaborative doctoral track in Geography and Genocide Studies with the Strassler Center for Holocaust and Genocide Studies.

Clark University is located on a 50-acre campus within Worcester, the heart of central Massachusetts. Eleven other universities and colleges in the city and surrounding area form the Higher Education Consortium of Central Massachusetts. The School maintains an extensive Map and Digital Library that is a depository for federal agencies, a graduate student computer room and lounge, office or desk space for most graduate students, an undergraduate lounge, and CoFERT (Computer Facility for Environmental Research and Teaching), an advanced computing lab.

The Graduate School of Geography and Clark's Department of International Development, Community, and Environment (IDCE) jointly offer a M.S. degree in Geographic Information Sciences for Development and Environment. The degree is designed as a three or four semester program for early and mid-career professionals with responsibilities in mapping, environmental database development, resource management, planning, policy implementation and environmental monitoring. For further information, contact the IDCE Department. Telephone: (508)793-7201; Fax: (508) 793-8820; Internet: http://www.clarku.edu/departments/geography/maprograms/gisde.cfm .

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The School of Geography's undergraduate program emphasizes a broad education in the field of geography with specializations in urban-economic, human-environment, GIS-remote sensing, and earth system science. Geography majors are required to become proficient in research methods and are encouraged to gain skills in quantitative methods, GIS, and mapping. Students with an outstanding academic record are eligible to participate in the Geography Honors program, which involves the completion of a two-semester independent honors project conducted under the supervision of a faculty member. Many geography majors study abroad, and qualified majors may be selected for Clark's prestigious Human-Environment Regional Observatory (HERO) Program, a nationally competitive NSF REU Site program, which includes paid summer research fellowships and a year-long research seminar (http://www.clarku.edu/departments/hero/). Majors may also be selected for Clark's competitive internship program with NOAA.

The School also offers a major in Global Environmental Studies (GES) and a concentration in Earth Systems Science (ESS) in Clark's Environmental Science major. GES focuses on the cultural and political dimensions of environmental knowledge, practice, and policy, as well as environmental justice. ESS examines how the earth system's component parts interact and function as a whole through biophysical connections among land, cryosphere, atmosphere, and oceans. Both majors offer such technical skills as remote sensing and geographical information systems for those students seeking them as well as an array of internships, study abroad, and special study programs. GES majors and ESS concentrators are qualified to apply for the various honors and related programs noted above for geography. The Accelerated Degree Program gives qualifying Clark undergraduate students access to our high-quality graduate programs and requires students to conduct original research. Applicants to the program who meet certain eligibility requirements can receive a tuition scholarship during their Fifth Year to pursue a M.A. degree.

For further information regarding the academic plan, admission requirements or financial aid, please contact Undergraduate Admissions Office, Clark University, 950 Main Street, Worcester, Massachusetts 01610-1477, Telephone: (508)793-7431. For further information on the undergraduate programs in geography, global environmental studies, or the concentration in earth systems science, you may contact the Undergraduate Program Coordinator Rachel Levitt (RLevitt@clarku.edu); Telephone: (508)793-7282. In addition, for Global Environmental Studies, you may also contact Professor James McCarthy, GES Director (JaMcCarthy@clarku.edu or ges@clarku.edu); Internet: http://www.clarku.edu/programs/major-or-minor-global-environmental-studies. For the Earth Systems Science concentration in the Environmental Science major, you may also contact Professor John Rogan (JRogan@clarku.edu); Internet: http://www.clarku.edu/departments/ES/ess/.

GRADUATE (PH.D. PROGRAM): Semester system. Three year residence required for Ph.D. *Admission Requirements:* interests coincident with those of department; evidence of competence to pursue graduate work at the Ph.D. level; GRE scores required for all applicants; applicants from related fields will be considered. TOEFL scores (or the results of another English proficiency test) and the TOEFL test of spoken English (TSE) are required of those students from countries where English is not the first language. An exception is made for students who are currently studying in the United States, Canada, Great Britain, or Australia or who have received a degree from a university in those countries. The application deadline is December 31st. *Financial Aid* includes tuition fellowships and research and teaching assistantships. All students accepted into the program are funded equally. Interested applicants should contact Graduate Program Administrator Brenda Nikas-Hayes (BNikasHayes@clarku.edu); Telephone: (508)793-7337.

FACULTY:

Yuko Aoyama, Ph.D., UC-Berkeley, 1996, Professor of Geography and Executive Editor, Economic Geography — economic/industrial geography, globalization, technological change, cultural economy

Anthony J. Bebbington, Ph.D., Clark, 1990, Milton P. and Alice C. Higgins Professor of Environment and Society and Director, Graduate School of Geography — human-environment, development geography, social movements, political ecology, extractive industries, Latin America

Mark Davidson, Ph.D., London, 2006, Associate Professor of Geography — urban geography, gentrification, urban politics, metropolitanism, policy-making, critical theory

J. Ronald Eastman, Ph.D., Boston, 1982, Professor of Geography and Director, Clark Labs — geographic information systems, remote sensing, earth system informatics, land use change

Jacque (Jody) L. Emel, Ph.D., Arizona, 1983, Professor of Geography and Acting Director (2015) — natural resources, political ecology, feminist theory, governance, animal geographies

Karen Frey, Ph.D., UCLA, 2005, Associate Professor of Geography — climate change, polar environments, sea ice variability, marine/terrestrial biogeochemistry, land surface hydrology, remote sensing

Dominik Kulakowski, Ph.D., University of Colorado, 2002, Associate Professor of Geography — forest ecology, mountain forest ecosystems, disturbance ecology

Deborah G. Martin, Ph.D., Minnesota, 1999, Professor of Geography — urban/social/political geography, law and geography, qualitative methods, place, social movements theories

James McCarthy, Ph.D., UC-Berkeley, 1999, Professor of Geography — political ecology, political economy, environmental governance, social theory

James T. Murphy, Ph.D., Florida, 2001, Professor of Geography and Editor, Annals of the American Association of Geographers — economic/urban/development geography, technology, sustainable development, networks, practice theory, Africa

Prajjwal Panday, Ph.D., Clark, 2013, Visiting Assistant Professor, Graduate School of Geography — land surface hydrology, remote sensing, biophysical modeling, mountain environments

Richard Peet, Ph.D., UC-Berkeley, 1968, Laskoff Professor of Economics, Technology and Environment, Professor of Geography — globalization, global governance, development theory and policy, philosophy and social theory, political ecology

Robert Gilmore Pontius, Jr., Ph.D., State University of New York, 1994, Professor of Geography and Associate Director, Graduate School of Geography — geographic information science, land change science, spatial statistics, quantitative modeling

Samuel J. Ratick, Ph.D., Johns Hopkins, 1979, Professor of Geography — environment and public policy, hazards, spatial analysis, decision science, geographic information science

Dianne E. Rocheleau, Ph.D., Florida, 1984, Professor of Geography — political ecology, environmental justice, urban ecology, gender, culture, nature and development, forestry, agriculture, land and territory, social movements, network theories

John Rogan, Ph.D., San Diego State University and UC-Santa Barbara, 2003, Associate Professor of Geography — remote sensing, land cover change, biogeography, fire ecology

Rinku Roy Chowdhury, Ph.D., Clark, 2003, Associate Professor of Geography — land system science, cultural & political ecology, institutions, urban ecology, agrarian systems and agroecology, Latin America

Florencia Sangermano, Ph.D., Clark, 2009, Visiting Assistant Professor, Graduate School of Geography and Research Assistant Professor, Clark Labs — conservation biology, geographic information science, remote sensing, landscape ecology

Christopher A. Williams, Ph.D., Duke University, 2004, Associate Professor of Geography — land surface hydrology, ecosystem ecology, hydroclimatic variability and change, global water and carbon cycles

AFFILIATE, ADJUNCT, AND RESEARCH FACULTY:

Edward R. Carr, Ph.D. Syracuse, 2001, Ph.D. Kentucky, 2002, Adjunct Professor of Geography and Professor and Director of International Development, Community, and Environment — livelihoods, development, human dimensions of global change, climate change adaptation, gender and identity, sub-Saharan Africa

Jacqueline Geoghegan, Ph.D., Berkeley, 1995, Adjunct Professor of Geography and Professor and Chair of Economics — spatial econometrics, resource economics

Roger E. Kasperson, Ph.D., Chicago, 1966, Research Professor and Distinguished Scientist, George Perkins Marsh Institute — environmental hazards, global environmental change, environmental policy

Robert W. Kates, Ph.D., Chicago, 1962, Affiliate Professor of Geography and Distinguished Senior Research Scientist, George Perkins Marsh Institute — sustainability of the biosphere, climate impact assessment, and nature/society theory

Yelena Ogneva-Himmelberger, Ph.D., Clark, 1998, Adjunct Associate Professor of Geography and Associate Professor, Department of International Development, Community, and Environment — health applications of GIS and remote sensing; environmental justice and GIS; spatial statistics; urban applications of remote sensing; land-use change and environmental degradation

B.L. Turner II, Ph.D. Wisconsin, 1974, Distinguished Research Professor — human-environment geography, land-change science, global environmental change

EMERITI FACULTY:

Martyn J. Bowden, Professor Emeritus
Susan Hanson, Distinguished University Professor Emerita
Douglas L. Johnson, Professor Emeritus
Gerald J. Karaska, Professor Emeritus
Duane S. Knos, Professor Emeritus
William A. Koelsch, Professor Emeritus
Lawrence A. Lewis, Professor Emeritus
Robert C. Mitchell, Professor Emeritus
Henry J. Steward, Professor Emeritus

MOUNT HOLYOKE COLLEGE

DEPARTMENT OF GEOLOGY AND GEOGRAPHY
DATE FOUNDED: 1904
DEGREES OFFERED: B.A.
GRANTED 9/1/00-8/31/14: 268 Bachelors
MAJORS: 47
CHAIR: Girma Kebbede
DEPARTMENT ADMINISTRATIVE ASST: Cecile Vasquez

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Girma Kebbede, Professor of Geography, Department of Geology and Geography, Mount Holyoke College, 50 College St., Clapp 304, South Hadley, Massachusetts 01075-6419.
Telephone (413) 538-2278. Fax (413) 538-2239.
E-mail: cvasquez@mtholyoke.edu.
Internet: www.mtholyoke.edu/acad/geo/.

PROGRAMS AND RESEARCH FACILITIES: Founded in 1837, Mount Holyoke became the premier model upon which other colleges for women were shaped. From an original class of 80 students, Mount Holyoke has grown to encompass an ethnically, racially, and culturally diverse student body of over 2,164 women, a faculty of 200, and an extraordinary array of academic facilities spread across an 800-acre campus. The College offers majors in 49 fields and a curriculum constantly enriched by new and innovative courses.

Mount Holyoke College is in South Hadley, Massachusetts, 5 miles north of the city of Holyoke and 12 miles north of Springfield. The Five-College towns of Northampton and Amherst are both 10 miles away. The college is 90 miles from Boston and 150 miles from New York City.

Mount Holyoke is a member of the Five College consortium, sharing academic and cultural resources with Amherst, Hampshire, and Smith Colleges and the University of Massachusetts. The more than 30,000 students attending the institutions may take courses, use library resources, and attend cultural and social events at any of the Five Colleges.

The Department of Geology and Geography at Mount Holyoke College offers Bachelors Degrees in Geology and Geography. Geography has been taught since the college's founding; in 1930 the combined department was created, with separate majors in each discipline. Currently, the department consists of four geographers and four geologists. Geography courses serve as a core for the International Relations major and the department cooperates closely with interdisciplinary programs in Environmental Studies, African Studies, American Studies, and Women Studies. Faculty in Geology have active research programs which take them and their students to eastern Canada, Africa, Alaska, Mexico, the American Southwest, and

the Canadian Rocky Mountains and Arctic. The Connecticut Valley is a prime location for fieldtrips which are a critical component of our program. The Williston Library stores USGS and AMS depository maps; the Library also contains more than 1,850 periodical subscriptions and its total collection is 670,000 volumes which includes books, serials and bound periodicals; and students are able to access the Five College library system from department computers.

The GeoProcessing Lab hosts state of the art hardware and software necessary for modem G IS and Remote Sensing applications. All 19 Dual Core workstations are networked and connected to two data-map-application servers, plotter, printers, and large format scanners. Our specialized software includes:

- ArcGIS
- Erdas Imagine with Photogrammetry Suite
- IDRISI
- Trimble Ecognition

For additional information on Geoprocessing facilities contact Dr. Thomas Millette at (413) 538-2813.

Geology maintains rock preparation facilities, analytical laboratories for sample analysis, and a scanning electron microscope. A microscope/computing laboratory is used by students and faculty conducting independent research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Mount Holyoke has a need based financial aid program and over 70% of the student body receives some form of financial aid. Student research is often funded by Mellon, College, or department grants.

FACULTY:

Steven R. Dunn, Ph.D., Wisconsin-Madison, 1989, Professor — petrology/petrography, mineralogy, isotope geology, electron microscopy

Houston, Serin, Ph.D., Syracuse University, 2012, Assistant Professor — economic geography; development-underdevelopment; state society, critical resource geography; social-environmental movements; discourses, institutions and power.

Girma Kebbede, Ph.D., Syracuse, 1981, Professor — development geography, population and food resources, spatial analysis, Africa

Eugenio Marcano Ph.D., Cornell University, 1994 Geoprocessing Lab Manager and Instructor in Geography – GIS, Soil Science

Michelle J. Markley, Ph.D., University of Minnesota, 1998, Associate Professor — structural geology and tectonics

Mark A.S. McMenamin, Ph.D., California-Santa Barbara, 1984, Professor — paleontology, history of life, stratigraphy

Thomas L. Millette, Ph.D., Clark, 1989, Associate Professor — remote sensing, geographic information systems and environmental planning

Alan Werner, Ph.D., Colorado, 1988, Professor — oceanography, environmental geology, climate change geology, sedimentology

Martha M. Godchaux, Ph.D., Oregon, 1969, Professor Emeritus

SALEM STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1932
GRADUATE PROGRAM FOUNDED: 1992
DEGREES OFFERED: B.A., B.S., M.A.T., M.S.
GRANTED (yearly graduates): 30 Bachelors; 6 Masters
STUDENTS IN RESIDENCE: 100 Majors; 24 Masters
CHAIR: Stephen Matchak
ADMINISTRATIVE ASSISTANT: Pat Whynott

FOR FURTHER INFORMATION WRITE TO: Dr. Keith Ratner, Department of Geography, Salem State University, 352 Lafayette St., Salem, Massachusetts 01970. Telephone (978) 542-6225.
Fax (978) 542-6269. E-mail: pwhynott@salemstate.edu.
Internet: dgl.salemstate.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.S. Degree in Cartography and GIS and a B.S. or B.A. degree in Geography with four concentrations; Sustainability, GeoInformation Sciences, Cultural, and Tourism. At the graduate level the department offers a M.S. in Geo-Information Science. Each program combines a strong academic geography background with applied fields in regional studies, physical geography, travel, tourism development, remote sensing, computer mapping and geographic information systems.

A senior year internship program provides for career counseling and occupational experience for academic credit. The internship program contracts with many businesses and agencies within the Salem-Boston metropolitan area, which also serves as a valuable resource for post graduate employment.

The Department is located next to the College Library, with its collections of geo-science journals and texts. Departmental facilities include physical geography laboratories and the Digital Geography Laboratory, a geo-computing facility housing digitizing equipment, and an extensive collection of mapping and analytical software.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System.
UNDERGRADUATE: Applications may be obtained from The Admissions Office, Salem State College, Salem, MA 01970, (978) 542-6200. S.A.T. Scores are required.

GRADUATE: Applications may be obtained from The Division of Graduate Education, Salem State College, Salem, MA 01970, (978) 542-6300 GRE Scores are required.

FINANCIAL AID: Inquiries to the Financial Aid Department, Salem State College, Salem, MA 01970, (978) 542-6112. Financial aid includes .E.O.G., Pell Grant, College Work-Study, Massachusetts State Scholarships, National Direct Student Loan, Massachusetts Tuition Waiver Program, Guaranteed Student Loan Program, Presidential Scholars, Alumni Scholarship awards. Graduate Assistantships are available.

FACULTY:

William L. Hamilton, Ph.D., Oregon State, 1980, Professor — computer assisted cartography, quantitative methods, GIS, digital image processing, physical

John T. Hayes, Ph.D., UCLA, 1986, Associate Professor — climatology, global change, GIS

UNIVERSITY OF MASSACHUSETTS, AMHERST

DEPARTMENT OF GEOSCIENCES
DATE FOUNDED: 1938
GRADUATE PROGRAM (GEOGRAPHY) FOUNDED: 1980
DEGREES OFFERED: B.A., B.S., M.S., Ph.D.
GRANTED 9/1/15-8/31/16: Geography: 5 Bachelors, 2 Masters, 2 Ph.D.
GEOGRAPHY STUDENTS IN RESIDENCE: 32 Majors, 7 Masters, 5 Ph.D.
NOT IN RESIDENCE: 2 Ph.D.
CHAIR: Julie Brigham-Grette (Geosciences); Piper Gaubatz (Geography)
DEPARTMENT ADMINISTRATIVE ASST: Marsha Howe

FOR FURTHER INFORMATION WRITE TO: Professor Piper Gaubatz, Geography Program Head, Department of Geosciences, University of Massachusetts, Amherst, Massachusetts 01003. Telephone (413) 545-0768. Fax (413) 545-1200.
E-mail: gaubatz@geo.umass.edu. Web page: blogs.umass.edu/umgeog

PROGRAMS AND RESEARCH FACILITIES: The department offers an M.S. degree in geography and a Ph.D. in geosciences with a concentration in geography. Faculty specialize in Environmental History, Environmental and Conservation Issues and Policy, Political Geography, Urban Geography, Urban Environmental History, Political Ecology, Climatology, Paleoclimatology, Geomorphology, Quaternary Studies, Ecological Cycling, Spatial Information, and the regional contexts of North America, East Asia, and South Asia.. Geosciences houses labs for GIS and digital mapping. A single-year (12 month) MS is possible for students who have already earned a Bachelor's degree in Geography, and for students interested in a focus on GIST. Environmental Geography Concentration: Geography majors in the B.A. program have an opportunity to focus their studies on geographic approaches to environmental issues, policy and history.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Semester system. Applications due November 1 for early action; January 15 for regular admission. SAT scores required. Undergraduate geography majors are enrolled in the College of Natural Sciences and must complete the College's distribution requirements in addition to the requirements of the geography program in order to receive a Bachelor's degree. The department offers B.S. and B.A. degrees in geography. University, State, and private scholarships and grants, loans, work-study and tuition waivers are available to qualifying students. Students applying for financial aid are automatically considered for all types of aid.

GRADUATE: Semester system. GRE scores and a minimum cumulative average of 3.00 (4 point system) or equivalent is required. Deadline for applications is January 15 for admission in fall. An MS in geography and a Ph.D. in Geosciences (with a concentration in geography) are offered. Teaching assistantships and minority graduate fellowships are awarded on a competitive basis, subject to availability, and carry a tuition waiver. Full- and half-time research assistantships may also be available on specific research projects.

FACULTY:
Toby Applegate, Ph.D., Rutgers, 2014, Lecturer — political and cultural geography, Europe
Forrest Bowlick, Ph.D, Texas A&M, 2016, Lecturer — GIS, Geographic Education
Piper Gaubatz, Ph.D., California-Berkeley, 1989, Professor and Geography Program Head — urban, environmental history, China, Japan, United States
Mike Rawlins, Ph.D, Univ. of New Hampshire, 2006. Extension Assistant Professor — climate processes, terrestrial water and carbon cycles
Stan Stevens, Ph.D., California-Berkeley, 1989, Senior Lecturer, Graduate Program Director — political ecology, environmental and conservation issues, environmental history, protected areas, indigenous peoples
Eve Vogel, Ph.D. Oregon, 2007, Associate Professor — political and environmental geography, river governance, human-environmental history
Qian Yu, Ph.D., California-Berkeley, 2005, Associate Professor — GIScience, remote sensing, spatial modeling, biogeography

EMERITUS GEOGRAPHY PROFESSORS:
James A. Hafner, Ph..D., Michigan, 1970 — political ecology of development, migration, resource management, Southeast Asia in global context
Rutherford H. Platt, J.D., Chicago, 1967; Ph.D., Chicago, 1971 — ecological cities, planning law, land & water resource management
Richard W. Wilkie, Ph.D., Washington, 1968 — humanistic geography—sense of place/spirit of place, migration, Latin America, historical, visualizing information

ASSOCIATED FACULTY:
Raymond S. Bradley, Ph.D., Colorado, 1974, Distinguished Professor (Geosciences) — paleoclimatology, climatology, Arctic and alpine environments, global change
Stephen Burns, Ph.D., Duke, 1987, Professor (Geosciences) — stable isotopes, paleoclimatology, speleothems
Brian W. Conz, Ph. D., Massachusetts, Amherst, 2008, Assistant Professor (Westfield State) — political ecology, conservation, indigenous peoples, Central America
Julie Brigham-Grette, Ph.D., Colorado, 1985, Professor (Geosciences) — glacial geology, Quaternary stratigraphy and geochronology, sea level history, paleoclimatology
Robert M. DeConto, Ph.D., Colorado, 1998, Associate Professor (Geosciences) — climate modeling, oceanography, paleoceanography
Christine Hatch, Ph.D., California-Santa Cruz, 2007, Extension Assistant Professor (Geosciences) — hydrogeology, water resources and climate change, ecohydrology, surface water – ground water interactions.
Isaac Larsen, Ph.D, Washington, 2013, Assistant Professor — Geomorphology
John Woodruff, Ph.D., M.I.T, 2008, Assistant Professor (Geosciences) — sedimentology, coastal processes and hurricanes modeling, physical, environmental impact assessment, resource management
Noel Healy, Ph.D, NUI, Galway, Ireland, 2010, Assistant Professor — tourism, environmental sustainability, sustainable tourism development
Lorri K. Krebs, Ph.D., Waterloo, 2004, Professor — tourism development, resource management, Latin America, Canada
Marcos Luna, Ph.D., University of Delaware, 2007, Professor — sustainability, resource management, environmental justice, GIS
Stephen Matchak, Ph.D., North Carolina at Chapel Hill,, 1982, Professor — tourism, cultural, landscape, New England
Keith A. Ratner, Ph.D., Denver, 2000, Professor — urban and regional planning, GIS, United States, transportation
Steven Silvern, Ph.D., Wisconsin at Madison, 1995, Professor — sustainability, Native Americans, environmental justice, political geography
Stephen S. Young, Ph.D., Clark, 1997, Professor — biogeography, remote sensing, physical, Asia

PART-TIME FACULTY:
Arthur A. Francis, B.S., Salem State, 1979, Lab Meterologist

STAFF:
Kym Pappathanasi, B.A., Vermont, 1991, Systems Manager — Digital Geography Laboratory

EMERITUS FACULTY:
Richard T. Anderson, Ed.D., Boston, 1983, Professor — economic, marketing, geographic education, world regions
Laurence E. Goss, Jr., Ph.D., Washington at Seattle, 1973, Professor — urban and regional planning, tourism development, Europe
Theodore S. Pikora, Ph.D., Boston, 1973, Professor — recreation, tourism, research methods

WESTFIELD STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING
DATE FOUNDED: 1981
GRADUATE PROGRAM FOUNDED: N/A
DEGREES OFFERED: Undergraduate minor in Applied Geography, undergraduate minor in GIS, undergraduate degree in Regional Planning
GRANTED 9/2013 to 8/2014: Majors 25
STUDENTS IN RESIDENCE: 50 undergraduate majors, 30 minors
CHAIR: Robert S. Bristow
DEPARTMENT ADMINISTRATIVE ASSISTANT: Melissa E. Rutkowski

FOR FURTHER INFORMATION CONTACT: Geography and Regional Planning (GARP), Westfield State University, 577 Western Avenue, Westfield, MA 01086. Telephone 413-572-8315. Fax 413-572-5470. Email mrutkowski@westfield.ma.edu. Internet http://www.westfield.ma.edu/garp. The Friends of GARP Facebook Group provide a social media presence.

PROGRAMS AND RESEARCH FACILITIES:
The Geography and Regional Planning Department of WSU offers introductory undergraduate courses in world regional, cultural, and physical geography, along with a full Bachelor of Science in Regional Planning curriculum. Upper level electives are offered in transportation geography, recreation and tourism planning, sustainability, and climate change. GIS courses include Introductory and Advanced GIS, Web Based GIS, Geoprocessing and remote sensing. A GIS certificate program includes coursework in GIS, software management, remote sensing, and quantitative methods. Internships in GIS and Regional Planning are available. Undergraduate minors are offered in Applied Geography, GIS, and an interdisciplinary Commercial Recreation and Tourism.

The GARP Department has excellent facilities and equipment. A GIS lab with 20 stations is equipped with contemporary GIS, Remote Sensing, and Statistical Analysis software and is linked to large-format color printers. GPS equipment is available for class work as well as student and faculty research. A laptop cart provides mobile technology for instruction and a set of 20 Android tablets with data plans provide additional tools for classes and research such as quantitative methods, data collection and analysis in addition to the varied GIS and Remote Sensing experiences offered. We also host Liquid Galaxy, an immersive Google Earth experience for all students and visitors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
The University uses a semester system. Students may enroll full or part time and courses are available both on campus and online. Freshman applicants must meet the minimum eligibility requirements (a sliding scale based on a recalculated high school cumulative grade point average and SAT and/or ACT scores), established by Department of Higher Education (DHE) in order to qualify for admission to a state university. Further information is available at http://www.westfield.ma.edu/admissions. Financial aid is available as need-based and merit-based scholarships.

GEOGRAPHY AND REGIONAL PLANNING FACULTY:
Carsten Braun, Ph.D., UMass-Amherst, 2006, Associate Professor — Physical Geography, Geographic Information Systems, Climate Change, Sustainable Energy
Robert S. Bristow, Ph.D., Southern Illinois University, 1990, Professor and Chair — Physical Geography, Quantitative Methods, Tourism Planning
Marijoan Bull, Ph.D., AICP, Salve Regina University, 2008, Associate Professor — Regional and Urban Planning, Housing, and Land Use, Legal Issues, World Regional Geography
Brian Conz, Ph.D., UMass-Amherst, 2006, Associate Professor — Physical Geography, Political Ecology, Environmental Analysis, Central America
Timothy LeDoux, Ph.D., Michigan State University, 2013, Assistant Professor and Campus GIS Coordinator — Geographic Information Systems, Remote Sensing, Sustainable Foods
Karl Leiker, Ph.D., Penn State, 1976, Professor — Physical Geography, Meteorology, Severe and Unusual Weather
Dristi Neog, Ph.D., Florida State University, 2009, Assistant Professor — Community Planning, Transportation, GIS, World Regional Geography
Kate Terzano, Ph.D., Ohio State, 2011, Assistant Professor — Community, Economic and Neighborhood Development, Urban Design and Historic Preservation, Non-motorized Transportation
Samuel Ndegeah, Ph.D., University of Idaho, 2015, Assistant Professor — World Regional Geography, Cultural Geography, Urban and Regional Planning, Cities of the Global South, Sub-Saharan Africa

EMERITUS FACULTY:
William Bennett, Ph.D.
Stephanie Kelly, Ed.D.
George Psychas, Ed.D.

WORCESTER STATE UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENT AND PHYSICS
DEGREES OFFERED: B.S. in Geography, B.S. in Environmental Science
GRANTED 2015: 24, 8 in Geography
MAJORS: 32 Geography; 52 Environmental Science
CHAIR: William Hansen

FOR CATALOG INFORMATION WRITE TO: Department Secretary, Department of Earth, Environment and Physics, Worcester State University, 486 Chandler Street, Worcester, MA 01602. Telephone: 508-929-8583, E-mail: whansen@worcester.edu; Internet: www.worcester.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Earth, Environment and Physics offers a B.S. degree in Geography. Students concentrate in earth systems science, environmental studies,

GIS or earth science education. The department also offers a B.S. in Environmental Science, an interdisciplinary degree emphasizing earth sciences, biology and chemistry. Our hybrid department includes four physicists who offer a minor in Physics. The department is housed in the college's science building; facilities include a GIS lab and two small physical geography labs.

GEOGRAPHY FACULTY:

Patricia A. Benjamin, Ph.D., Clark University, 2002, Associate Professor — human dimensions of environmental change, cultural/political ecology, Africa, North America

Timothy L. Cook, Ph.D., University of Massachusetts, 2009, Assistant Professor — sedimentary processes, Quaternary environmental change

Janelle Cornwell, Ph.D., University of Massachusetts, 2011, Visiting Professor — solidarity economies, economic geography

Allison L. Dunn, PhD., Harvard University, 2006, Associate Professor — atmospheric science, physical geography

William J. Hansen, Ph.D., City University of New York, 2002, Associate Professor — GIS, remote sensing, cartography, environmental resource management

Douglas E. Kowalewski, Ph.D., Boston University, 2009, Assistant Professor — geomorphology, climate modeling, glaciology

Alexander R. Tarr Ph.D., University of California, Berkley, 2016, Assistant Professor — Urban Geography, Food Politics, Critical GIS, Social & Racial Justice

MICHIGAN

AQUINAS COLLEGE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES
DATE FOUNDED: 1974
DEGREES OFFERED: B.S. in Geography; B.A. in Geography; B.S. in Environmental Studies; B.A. in Environmental Studies
DEGREES GRANTED 9/1/14 – 8/31/15: 7 B.S. Geography
MAJORS: 15 Geography; 6 Environmental Studies
CHAIR: Richard McCluskey
PROGRAM ADMINISTRATIVE ASSISTANT: Cindy Chapman

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Studies, 105 Albertus Hall, Aquinas College, 1607 Robinson Road SE, Grand Rapids, MI 49506-1799. Telephone (616) 632-2401. Fax (616) 459-1208. Email: mccluric@aquinas.edu
Internet: https://www.aquinas.edu/geography
Or: https://www.aquinas.edu/environmental-studies

PROGRAMS AND RESEARCH FACILITIES:
The Department of Geography and Environmental Studies offers undergraduate degrees in both Geography and Environmental Studies. Geography majors are introduced to human geography, physical geography, and geospatial techniques within the context of a small liberal arts college environment. The department is housed in the Albertus Magnus Science Building and the facilities include a stand-alone GIS laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Admission to the undergraduate major program in Geography is the same as that for admission to the Aquinas College. In addition to the college general education curriculum requirements, majors are expected to take Earth Environments (physical geography), Human Geography, World Regional Geography, Cartography, Geographic Information Systems, Advanced Techniques and Methods, and a Capstone Research course. Six additional hours of geography and courses in spreadsheet analysis and statistics are required for the major. Undergraduate majors are eligible for earning credit through internal and external internship programs.

FACULTY:

Paul Bieneman, Ph.D., University of Oklahoma, 1975, Emeritus Professor — physical geography, geomorphology, Michigan

Mary Clinthorne, Ph.D., University of Kansas, 1990, GIS Lab Director and Part-Time Associate Professor — cartography, geographic information systems, remote sensing

Richard McCluskey, Ph.D., The Pennsylvania State University, 1995, Associate Professor and Chair — human geography, geographic education, urban, historical

James Rasmussen, Ph.D., University of Florida, 2010, Associate Professor — physical geography, geomorphology, water resources, climatology, biogeography

CALVIN COLLEGE

DEPARTMENT OF GEOLOGY, GEOGRAPHY, ENVIRONMENTAL STUDIES
DATE FOUNDED: 1983
DEGREES OFFERED: B.A. (Geography, Environmental Studies), B.S. (Geology, Environmental Geology)
GRANTED 9/1/14 - 05/31/15: 21 Bachelors
MAJORS: 66
CHAIR: Johnathan Bascom

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Jason VanHorn, Department of Geology, Geography, and Environmental Studies, Calvin College, 1740 Knollcrest Circle SE, Grand Rapids, MI 49546.
Telephone (616) 526-7623. Fax (616) 526-6501.
E-Mail: jvanhorn@calvin.edu, http://www.calvin.edu/geo

PROGRAMS AND RESEARCH FACILITIES: The Department of Geology, Geography and Environmental Studies offers Bachelor's Degrees and minor concentrations in Geography, Geology and Environmental Studies. It is a principal player in an interdisciplinary Environmental Science program and a strong participant in International Development Studies, and Elementary and Secondary Education. Current faculty includes four geographers, two geologists, a specialist in environmental history and policy, and an earth science education specialist. The geography faculty have active research programs in aeolian and coastal geomorphology; refugee resettlement; Geographic Information Systems (GIS); the relevance of Christian philosophy for geography; human geography and urban sustainability. The curriculum emphasizes the natural, cultural, societal and spiritual contexts in which people live. The mission of the geography program is to expand students' knowledge of how cultures and communities transform and organize their physical, ecological and economic environments into human landscapes. Student participation in undergraduate research is a notable strength of the program. Student researchers have recently participated in coastal dune geomorphology and management investigations; GIS applications to resource management and terrorism; studies of community organizations among Eritrean refugees; and studies of marine resource management in New Zealand.

The department facilities include three teaching laboratories, two research laboratories, and a geospatial analysis laboratory for GIS, computer cartography, and data analysis. The Geospatial Lab software

includes ArcGIS, Erdas Imagine, Rockworks, SPSS, Stata, and other relevant software for geographical research. The field research lab used by physical geography students is designed for mechanical analysis of soil and sediment, and simulation of fluvial processes. Field equipment includes Juno GPS units, a variety of meteorological, geomorphological and surveying instruments. The department also runs the on-campus weather station. The Department is a USGS repository, presently possessing over 8,000 maps. It is also a repository for census material available on CD-ROM including TIGER files, DLGs, and other digital data.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Calvin College is a comprehensive liberal arts college in the Reformed tradition of Christianity, located in metropolitan Grand Rapids, Michigan, on a 370-acre campus. Founded in 1876, it is one of the largest Christian colleges in North America with around 4,000 students and 100 academic programs, and an international reputation as a center of faith-shaped thinking. The academic year is based on a semester system with a January Interim. High school grades and college entrance test scores are used in selecting students for admission. Calvin College has a need and merit based financial aid program and more than 95% of the students receive some kind of financial aid.
http://www.calvin.edu/admin/admissions/

FACULTY:

Johnathan Bascom, Ph.D., University of Iowa, 1989, Professor — Africa, economic geography, refugees and internally displaced persons, geographic pedagogy

Ken Bergwerff, M.A.T., Grand Valley State University, 1988, Assistant Professor — science education

Mark D. Bjelland, Ph.D., University of Minnesota, 2000, Professor — urban geography, urban planning, environmental studies, Geographic Information Systems

James R. Skillen, Ph.D., Cornell University, 2006, Assistant Professor — natural resource policy, environmental history, environmental ethics

Ralph F. Stearley, Ph.D., University of Michigan, 1990, Professor — paleontology, historical geology, stratigraphy, sedimentology

Deanna van Dijk, Ph.D., University of Waterloo, 1998, Professor — aeolian and coastal geomorphology, cold-climate processes, wind erosion in complex environments

Jason E. VanHorn, Ph.D., Ohio State University, 2007, Associate Professor — Geographic Information Systems, cartography, remote sensing, geography of terrorism, Christian philosophy

Gerald Van Kooten, Ph.D. University of California, Santa Barbara, 1980, Professor — exploration and development geology, geochemistry, geothermal energy

EASTERN MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY & GEOLOGY
DATE FOUNDED: 1903
GRADUATE PROGRAM FOUNDED: 1927
DEGREES OFFERED: B.A., B.S., M.S.
STUDENTS IN RESIDENCE: 159 Undergraduate; 142 Graduate
GRANTED 8/15/14-05/30/16: 52 Bachelors; 62 Masters; Certificates 7
HEAD: Rick Sambrook

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography & Geology, Eastern Michigan University, Ypsilanti, Michigan 48197. Telephone (734) 487-0218 or Fax (734) 487-6979. E-mail: rsambroo@emich.edu.
World Wide Web: http://www.emich.edu/geo/

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography & Geology concentrates on the study of physical landscapes, their origins and the processes that alter them; the imprint of human activity on the earth's surface; the complex relationships among places; and the application of technology to human resource identification, conservation, and management. The department offers programs leading to the degree of Bachelor of Science/Bachelor of Arts degree with majors in EARTH SCIENCE AND EARTH SCIENCE TEACHING; GEOLOGY (including an optional concentration in hydrology); GEOGRAPHY (including an optional tourism concentration); GEOGRAPHY TEACHING; and URBAN AND REGIONAL PLANNING. Minors are offered in these fields, as well as in Geographic Information Systems, GIS and Remote Sensing, Environmental Analysis, and Historic Preservation. Master of Science programs are offered in EARTH SCIENCE EDUCATION, GEOGRAPHIC INFORMATION SYSTEMS, URBAN PLANNING, and HISTORIC PRESERVATION. Our HISTORIC PRESERVATION graduate program, which celebrated its 30th Anniversary in 2009, is considered the largest and most comprehensive in the country. A geographic information systems and computer mapping facility is available to meet instructional and research needs. The department maintains close affiliation with the Institute for Geographic Research and Education, a research and outreach center that provides opportunities for students and faculty to apply geographic knowledge to the practical needs of communities and agencies throughout Michigan and the Great Lakes region. Four student groups are associated with department programs: the Geo-Club; Preservation Eastern, the Planning Awareness Club of Eastern (PLACE) and the Travel and Tourism Student Association.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
ACADEMIC PLAN: the semester system.
UNDERGRADUATE: 1) High School diploma or equivalent, 2) meet general university admission requirements, 3) submission of ACT or SAT test scores.

GRADUATE: 1) a bachelor's degree from an accredited institution, 2) meet Graduate School requirements, 3) have attained a 2.75 GPA.

FINANCIAL AID: Numerous scholarship, grant, and loan opportunities are administered through the university's Office of Financial Aid. The department awards approximately fifteen graduate assistantships that are available for up to two years of study. Assistantships carry a tuition waiver and monthly stipend. The department also annually awards several scholarships based on grades, activities, and needs. Awards generally range from $500 to $1,000.

FACULTY:

Dan Bonenberger, A.B.D., West Virginia University, 2008, Associate Professor — historic preservation, heritage interpretation

Michael Bradley, Ph.D., Utah, 1988, Professor — structural geology, petrology, petroleum geology

Nancy Bryk, M.A., Michigan, 1980, M.B.A. Michigan, 2007, Associate Professor — American culture, heritage and historic interpretation, preservation and tourism, historical administration, museum studies

Christine Clark, Ph.D. University of Manitoba, 2002, Professor — mineralogy, petrology, pegmatology, environmental mineralogy

Matthew R. Cook, PhD. University of Tennessee Knoxville, 2016 — Cultural/Historical Geography, historic interpretation, memory studies, race and racial justice. American South, critical pedagogy.

Robert Jones, PhD, Portland State University, 1999, Professor — planning, urban geography, historic preservation

Heather Khan, Ph.D., Florida State University, 2008, Associate Professor — economic and community development, urban

policy and politics, urban public finance, growth management, regional planning

Tom Kovacs, Ph.D., Penn State, 2000, Professor — meteorology, Interdisciplinary Environmental Science & Society (IESS) program

Theodore Ligibel, Ph.D., Bowling Green (Ohio), 1994, Professor — cultural geography, historic preservation, cultural tourism

Steve LoDuca, Ph.D., Rochester, 1990, Professor — paleontology, sedimentology, stratigraphy

Zachary Moore, Ph.D., Texas State University, 2008, Associate Professor — K-16 geographic education, cultural/human geography, social justice issues, environmental geography, historical geography

John Oswald, Ph.D., University of Texas at Austin, 2013, Assistant Professor — community and regional planning, human-environment interaction, urban-political geographic analysis of divided cities and societies

M. Serena Poli, University of Padova (Italy), 1995, Professor — oceanography, micropaleontology, paleoclimatology

Katherine Ryker, Ph.D., North Carolina State University, 2014, Assistant Professor — Geoscience Education, Sedimentology, Stratigraphy, GIS

Richard A. Sambrook, Ph.D., Michigan State University, 1992, Professor & Head — Latin America, regional economic development, geotourism

Hugh Semple, Ph.D., 1997, University of Manitoba, Professor — cultural geography, geographic information systems

William F. Welsh, Ph.D., University of North Carolina-Chapel Hill, 2001, Associate Professor — G.I.S., remote sensing, environmental geography

Xining Yang, PhD. Ohio State University, 2015, Assistant Professor — GIS, Geospatial Big Data Analytic, Quantitative Methods in Geography, Geovisualization, Health Geography.

Yichun Xie, Ph.D., Buffalo, 1994, Professor — geographic information systems, physical geography, urban and regional planning

LECTURERS:

Kelly Victor-Burke, M.S., Eastern Michigan University, 1989, Lecturer III — geography, geotourism, tourism geography, Russia and the former Soviet Union

Emeritus Faculty:

Michael Kasenow, Ph.D., Western Michigan, 1994, Professor — hydrology, science education

Andrew A. Nazzaro, Ph.D., Michigan State, 1974, Professor — cultural geography, Africa, medical, international development.

Norman Tyler, Ph.D. Architecture, 1987, University of Michigan, Professor — urban and regional planning, historic preservation

GRAND RAPIDS COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL SCIENCES
DEGREES OFFERED: A.A., A.S.
GEOGRAPHY MAJORS: 7
DEPARTMENT EDUCATIONAL SUPPORT PROFESSIONAL: Stacey Herrick

FOR INFORMATION WRITE TO: Dr. M.S. DeVivo, Social Sciences Department, Grand Rapids Community College, 143 Bostwick NE, Grand Rapids, MI, 49503. E-Mail: mdevivo@grcc.edu.

Program: The Geography program at Grand Rapids Community College (GRCC) seeks to achieve excellence by integrating a rich and challenging curriculum with field studies in the U.S. and abroad, while also making substantive contributions to geographical research. Seven undergraduate courses are listed in the curriculum, and three of them are currently offered online as writing intensive courses to students across the globe: *World Regional Geography*, *Cultural Geography*, and the *Regional Geography of the U.S. and Canada*. GRCC Geography majors are expected to make presentations at academic conferences, and several have received scholarships and awards for field studies, as well as completion of the baccalaureate and conference participation. In recent years, students have conducted fieldwork throughout the U.S., Latin America, and Sub-Saharan Africa. Alumni have been successful in gaining funding to pursue M.A. and Ph.D. degrees in geography and urban affairs at a number of graduate programs including: Syracuse University, the University of Missouri, the University of Texas, the University of Maryland, Ohio University, Kent State University, Rutgers University, Cleveland State University, and Western Michigan University.

As GRCC is an institutional member of the World Affairs Council of Western Michigan, which is devoted to educating leaders in higher education and business on matters pertaining to global affairs, the geography program plays a critical role. GRCC is also home to the Lambda Upsilon chapter of Gamma Theta Upsilon, which was distinguished with the award of *Honors* in 2013. This GRCC chapter of the International Geographical Honor Society remains devoted to raising funds for the education of girls in Sub-Saharan Africa, while also advancing social justice in the local community and contributing to geographical scholarship. Honorary GTU membership was awarded by Lambda Upsilon to *New York Times* columnist Nicholas Kristof in 2011. Annually, a geographer of distinction is invited to deliver a lecture, which is sponsored by the Visiting Geographical Scientist Program (VGSP). VGSP distinguished speakers are among those interviewed for the *Conversation with a Geographer* oral history series, which is broadcast on GRCC TV and available for viewing on YouTube.

Among the scholarships and awards presented by the Geography program is the *GRCC Geography Field Cap*, which is awarded to stellar graduates of the program, as well as those that have contributed to the advancement of Geography through fieldwork, exploration, research, teaching, publication, or exemplary service. In addition to selected alumni, all VGSP distinguished speakers are presented with this award; other recipients include: Nicholas Kristof, Niem Huynh, Alicia Decker, Richard Leakey, Anne Bonds, Courtney Gallaher, Jessie Clark, Jerome Dobson, and Lee Schwartz.

VGSP Distinguished Speakers:

2009 Leon Yacher
2010 Marie Price
2011 Leon Yacher
2012 Kate Swanson
2013 Rebecca Sheehan
2014 Caroline Faria
2015 Marie Price
2016 Maria Fadiman

Geography Faculty:

M. S. DeVivo, Professor — leadership, history of geography, historical geography, geopolitics, African wildlife conservation and community development

GRAND VALLEY STATE UNIVERSITY

DEPARTMENT GEOGRAPHY AND SUSTAINABLE PLANNING
DATE FOUNDED: 2000
DEGREES OFFERED: B.A. in Geography; B.S. in Geography
GRANTED 9/1/14-8/15/15: 10
MAJORS: 65
MINORS: 20
CHAIR: Dr. Elena Lioubimtseva
DEPARTMENT ADMINISTRATIVE ASSTANTANT: Ms. Amanda Reader

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Planning, B-4-105 Mackinac, 1 Campus Drive, Allendale, MI 49401. Telephone (616) 331-3065. Fax (616) 331- 8635. E-mail: gpydept@gvsu.edu. Web: www.gvsu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Sustainable Planning at Grand Valley State University offers B.S. and B.A. degrees in Geography with concentrations in geospatial technology, urban and regional planning, environment and global development. The department also offers minors in Geographic Information Systems (GIS), Sustainable Urban and Regional Planning, and the Geography Education at the secondary level, and certification programs in GIS Technology and Sustainable Urban and regional Planning.

The Department offers a wide selection of geography and urban and regional planning courses. Particular strengths are geospatial technology, global and regional development, environmental geography, and urban planning. The relatively small size of the department allows for very close interaction between faculty and students, and the possibility to build customized programs around students' specific interests.

Geography and Sustainable Planning is housed in LEED-certified Mackinac Hall, located GVSU main campus in Allendale, MI, a short drive between the Lake Michigan shore and vibrant Grand Rapids downtown, offering excellent opportunities for field research in the nearby state and nature centers as well as urban educational, research, and community engagement opportunities in Grand Rapids, Holland, Muskegon, and Lansing. Supplementing coursework are a state-of-the-art computer laboratory with GIS and remote sensing applications (ArcGIS with extensions, Idrisi, Erdas Imagine, Ecognition, ATCOR), MAGICC/SENGEN climate modeling software, field and laboratory equipment, three digital weather stations belonging to GVSU, Trimble GPS base station and receivers and excellent library resources.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Grand Valley State University operates on the semester system. Admission information is available at www.gvsu.edu/admissions. The focus of the geography major is on developing well-rounded graduates in the discipline who have a specialization or particular area of interest within the major. The requirements for the major in geography and planning comprise the completion of the general education program requirements and at least 36 semester credits in geography and planning with a minimum GPA of 2.0. Information about financial aid, scholarships and employment opportunities for students is available at http://www.gvsu.edu/financialaid/

The geography major requirements include 12 credits of required courses and the remainder of upper-level geography electives, as well as the University requirements for a B.A. or B.S. degree. The department offers a wide range of upper level courses focused on GIS, remote sensing and image processing, global and regional development, environmental geography, urban and regional planning, paid and unpaid internships, as well as study abroad programs, including an intensive faculty-led summer school in sustainable urban and regional planning in the Netherlands and a field research class in Peru.

FULL-TIME FACULTY:

Roy Cole, Ph.D., Michigan State University, 1991, Professor — global development, Africa, Middle East, land-use/land cover change.

Patricia Houser, Ph.D., AICP, Columbia University, 2007, Assistant Professor — urban and regional planning, land-use planning, cultural geography.

Elena Lioubimtseva, Ph.D., Moscow State University, 1994, Professor — climate change, human vulnerability and adaptations, Russia and Central Eurasia.

Kin M. PhD, Michigan State University, 2007, Assistant Professor — physical geography, cartography, remote sensing, global change, GIS, East Asia.

James Penn, Ph.D., University of Florida, 2004, Associate Professor — Latin America, Amazon, development and globalization, agriculture, forestry.

Wanxiao Sun, Ph.D., Johannes Gutenberg University of Mainz, 1999, Associate Professor — remote sensing, digital image processing, advanced GIS.

Jeroen Wagendorp, Ph.D., AICP, GISP, University of Oklahoma, 1989, Chair, Associate Professor — public sector GIS institutionalization, Europe, Netherlands.

Gang Xu, Ph.D., Johannes Gutenberg University of Mainz, 1996, Associate Professor — economic geography, GIS applications for business decisions, urbanization, China.

ADJUNCT FACULTY:

Michael Gutowski, M.A., Western Michigan University, 2008 — Regional Geography, Physical Geography.

Steven Stepek, M.P.A, Grand Valley State University, 2006 — Transportation Planning.

Judith Transue, M.A., Northwestern University, 1966, MSW, University of Michigan, 1972, M.A., Michigan State University, 2000 — Regional Planning, Housing.

Jonathan Wessell, A.B.D. Walden University, M.A., Western Michigan University, 1997 — Regional Geography, Cultural Geography.

MICHIGAN STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES
DATE FOUNDED: 1955
GRADUATE PROGRAM FOUNDED: 1952
DEGREES OFFERED: BA, BS, MS, and PhD
GRANTED 8/27/14-8/20/15: 16 Bachelors, 3 Masters, 7 PhD
STUDENTS IN RESIDENCE: 93 Majors, 11 Masters, 2 MS-GIS, 32 PhD
NOT IN RESIDENCE: 1 Masters, 8 PhD
CHAIR: Alan F. Arbogast
DEPARTMENT ADMINISTRATIVE ASST: Judy Reginek

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Alan F. Arbogast, Chair, Department of Geography, Environment, and Spatial Sciences, Michigan State University, Geography Building, 673 Auditorium Rd, Rm 116, East Lansing, Michigan 48824. Telephone (517) 355-4649. Fax (517) 432-1671. E-mail: geo@msu.edu. Internet: www.geo.msu.edu.

GRADUATE PROGRAMS AND RESEARCH FACILITIES: Graduate programs are designed to give various levels of professional competence in the theory, substance, methodology, and tools of geography. Systematic fields of emphasis are physical geography; GIScience and remote sensing; economic geography; and regional development, with other programs possible. Faculty research and travel give regional strength in Africa, Latin America, East Asia, and the United States. Strong supporting fields include the social sciences, climatology, soils, geomorphology, planning, epidemiology, forestry, resource development, recreation, and tourism. Research is facilitated by the African, Asian, and Latin American Studies Centers. The MSU library contains over 5 million volumes and a map library. Department facilities include Linux and Windows computer laboratories and modern soils laboratories. There is easy access to the department's Remote Sensing and GIS Research and Outreach Services, the Center for Global Change and Earth Observations, the Global Urban Studies Program, and the Office of the State Climatologist and Michigan Meteorological Resources Program.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: *Academic Plan* semester system. *Admission requirements for B.A. or B.S.* admission to university and acceptable academic standing. Degree requirements include 120 semester credit hours including 30 semester hours in geography. Internships available.

GRADUATE: *Academic Plan* semester system. *Admission guidelines for M.S.* completion of an undergraduate degree with a 3.4 average for the last two academic years and satisfactory GREs; any qualified student is encouraged to apply. *Ph.D.* completion of a masters degree with thesis or equivalent, satisfactory grade-point average and GREs. Teaching assistantships, university scholarships, research assistantships, M.S.U. Graduate Office Fellowships, and other awards are available. Women and minorities are encouraged to apply. Monthly half-time stipends start at ~ $1,500 (plus nine credits of tuition per semester and health insurance). Deadline for applications is December 31 for financial aid the following autumn. Early application is helpful

GEOGRAPHY FACULTY:

Jeffrey A. Andresen, PhD, Purdue, 1987, Professor — agricultural meteorology/climatology

Alan F. Arbogast, PhD, Kansas, 1995, Professor and Chairperson — Quaternary geomorphology, paleo-environments, physical

Raechel A. Bianchetti, PhD, Penn State, 2014, Assistant Professor — Cognitive GIScience, geovisualization, remote sensing

Guo Chen, PhD, Penn State, 2007, Associate Professor — urban, China

Jiquan Chen, PhD, Washington, 1991, Professor — Coupled human/natural systems, ecosystem analysis, forest ecology, remote sensing

Kyla Dahlin, PhD, Stanford 2012, Assistant Professor – plant ecology, remote sensing

Joe T. Darden, PhD, Pittsburgh, 1972, Professor — urban, social-cultural, U.S.

Kyle Evered, PhD, Oregon, 2002, Associate Professor — cultural, political, Middle East

Andrew Finley, PhD, Minnesota, 2007, Associate Professor — forestry, quantitative modeling

Sue C. Grady, PhD, CUNY, 2005, Associate Professor — medical, GIS, population

Arika Ligmann-Zielinska, PhD, San Diego/UC-Santa Barbara, 2008, Associate Professor — environmental and social modeling

Lifeng Luo, PhD, Rutgers, 2003, Associate Professor — climate, meteorology, climate change

Elizabeth A. Mack – PhD, Indiana, 2010, Assistant Professor – economic development, telecommunications policy, entrepreneurship

Joseph Messina, PhD, North Carolina, 2001, Professor — global environmental change, GIS

Nathan Moore, PhD, Duke, 2004, Associate Professor — land-atmosphere interactions, regional climate modeling, land use/land cover dynamics

Emilio Moran, PhD, Florida, Professor — Latin America, human-environment interactions, tropical agriculture, land use

Sarah Nicholls, PhD, Texas, 2002, Associate Professor — recreation geography

Amber L. Pearson, PhD, Washington, 2010, Assistant Professor — Epidemiology, health geography

Bruce Wm. Pigozzi, PhD, Indiana, 1979, Professor — urban, economic and transportation geography, regional economic and transportation planning, quantitative methods, modeling

Jiaguo Qi, PhD, Arizona, 1993, Professor — remote sensing, optical and microwave sensors, process-oriented models

Randall J. Schaetzl, PhD, Illinois, 1987, Professor — soil geomorphology, plant geography, Quaternary studies, physical

Ashton Shortridge, PhD, UC-Santa Barbara, 2000, Professor — GIS

Igor Vojnovic, PhD, Toronto, 1997, Associate Professor — urban, economic

Julie A. Winkler, PhD, Minnesota, 1982, Professor — synoptic climatology, severe storms, physical geography

Catherine Yansa, PhD, Wisconsin, 2002, Associate Professor — paleo-environments, physical

Sharon Zhong, PhD, Iowa State, 1992, Professor — climate models

Leo C. Zulu, PhD, Illinois, 2006, Associate Professor — Africa, GIS, remote sensing

ASSOCIATED FACULTY:

Juliegh Bookout, MA, Michigan State, 2006, Visiting Instructor — online Instruction

Peilei Fan, PhD, MIT, 2003, Adjunct Professor — planning, China

Adrienne Domas Goldsberry, MA, UC-Santa Barbara, 2002, Visiting Instructor — online Instruction, planning

Dorothy K. Hall PhD, Maryland 1980, Adjunct Professor – remote sensing of snow, glaciers and ice sheets, lake ice and sea ice

Robert K. Hitchcock, PhD, New Mexico, 1982, Adjunct Professor — Human-environment interactions

Eva Kassens, PhD, MIT, 2009, Adjunct Professor — planning, transportation

David Lusch, PhD, Michigan State, 1982, Senior Specialist — remote sensing, GIS, applied physical, geomorphology

Frederick E. Nelson, PhD, University of Michigan, 1982, Adjunct Professor — polar regions, periglacial geomorphology

Gary Schnakenberg, PhD, Michigan State, 2013, Advisor/Instructor — human environment interactions

Morris O. Thomas, MA, Michigan State, 1969, Visiting Professor — U.S., world regional, physical

Beth Weisenborn, MA, Michigan State, 2001, Outreach Specialist — online Instruction

Antoinette M.G.A. WinklerPrins, PhD, Wisconsin, 1999, Adjunct Professor — Latin America, people-environment

EMERITUS FACULTY:

Kenneth E. Corey, PhD, Cincinnati, 1969, Professor Emeritus

Michael Chubb, PhD, Michigan State, 1967, Professor Emeritus

Richard E. Groop, PhD, Kansas, 1976, Professor Emeritus

John M. Hunter, PhD, Reading, 1954, University Distinguished Professor Emeritus

Gary A. Manson, PhD, Washington, 1979, Professor Emeritus

Assefa Mehretu, PhD, Johns Hopkins, 1969, Professor Emeritus

Judy Olson, PhD, Wisconsin, 1979, Professor Emeritus

Jack F. Williams, PhD, Hawaii, 1973, Professor Emeritus

Robert I. Wittick, PhD, Iowa, 1972, Professor Emeritus

NORTHERN MICHIGAN UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOGRAPHICAL SCIENCES
DATE FOUNDED: 1905
DEGREES OFFERED: B.A., B.S.
GRANTED 9/1/13–8/31/14: 69 Bachelors
MAJORS: 290
CHAIR: Susy S. Ziegler (Head)
DEPARTMENT ADMINISTRATIVE ASST: Jana Nicholls

FOR FURTHER INFORMATION WRITE TO: Susy S. Ziegler, Head, Department of Earth, Environmental, and Geographical Sciences, 1401 Presque Isle Ave., Northern Michigan University, Marquette, Michigan 49855-5301.
Telephone (906) 227-1104,Fax (906) 227-1621.
E-mail: eegs@nmu.edu. Internet: www.nmu.edu/eegs.

PROGRAMS AND RESEARCH FACILITIES: The undergraduate program offers majors in Earth Science; Environmental Studies and Sustainability; Environmental Science; Geomatics; Secondary Education in Earth Science; Secondary Education in Geography. Each major is designed to prepare students for graduate education and employment in a wide range of environmental fields. The department also offers a certificate in geographic information systems. Housed in a modern science building, the university and department offer excellent library services, field courses, and laptops and software needed for coursework. Students may complete internships and study abroad experiences related to the majors. The department has a Geographic Information Systems/Remote Sensing Lab and research laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system and summer program. *Admission Requirements:* Undergraduate: minimum ACT composite score of 19 or minimum SAT total score of 980 (redesigned SAT, March 2016 and later) or 900 (old SAT, math and critical reading sections), and a high school GPA of 2.25/4.0. *Financial Aid:* scholarships, grants, loans, department assistants, and work study.

FACULTY:
Michael J. Broadway, Ph.D., University of Illinois, 1983, Dean of College of Arts and Sciences/Professor — human geography
Richard Eathorne, M.A., Northern Michigan University, 1977, Assistant Professor — human geography, economic geography, regional (Latin America), environmental studies
Norma J. Froelich, Ph.D., Indiana University, 2009, Assistant Professor — climatology, physical geography, geographic research
Weronika Kusek, Ph.D., Kent State University, Assistant Professor — human geography, migration, population, international studies
Robert J. Legg, G.I.S.P., Ph.D., Trinity College Dublin, 2006, Associate Professor — GIS, cartography, quantitative methods
Sarah Mittlefehldt, Ph.D., University of Wisconsin-Madison, 2004, Assistant Professor — environmental history, environmental policy, environmental justice, sustainability
Robert S. Regis, Ph.D., Michigan Technological University, 1997, Professor — geology, glacial geology, groundwater/ hydro-geology, remote sensing
Matthew J. Van Grinsven, Ph.D., Michigan Technological University, 2015, Assistant Professor — physical geography, soils, hydrology, carbon cycling, biogeosciences
Susy S. Ziegler, Ph.D., University of Wisconsin-Madison, 1999, Associate Professor and Head — biogeography, physical geography, environmental science, geographic research

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1905
GRADUATE PROGRAM FOUNDED: 1964
DEGREES OFFERED: B.S. Geography, B.S. Community & Regional Planning, B.A. Tourism & Travel, M.S. Geography, Graduate Certificate in Geographic Information Science
GRANTED 9/1/13-8/31/14: Bachelors: 31 in Geography, 3 in Community & Regional Planning, 10 in Tourism & Travel, 9 Masters, 4 certificates
STUDENTS IN RESIDENCE: 108 Majors (68 in Geography, 36 in Tourism & Travel, 4 in Community & Regional Planning), 3 in GISci Certificate, and 25 Masters
CHAIR: Benjamin Ofori-Amoah
DEPARTMENT ADMINISTRATIVE ASST: Mary Lou Brooks

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, 3244 Wood Hall, Western Michigan University, Kalamazoo, Michigan 49008-5424.
Telephone (269) 387-3411. Fax (269) 387-3442.
E-mail: ben.ofori@wmich.edu. Internet: www.wmich.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.S. degree in Geography, a B.S. degree in Community and Regional Planning, a B. A. degree in Tourism and Travel, an M. S. degree in Geography, and a Graduate Certificate in Geographic Information Science. In the B.S. Geography degree, students may opt for concentrations in general geography, environmental analysis and resource management, geographic information science or teaching of geography. The B.S. in Community and Regional Planning requires core courses in planning and other social science disciplines and an elective. The B. A in Tourism and Travel major requires a minor in either business or modern languages. The M.A. degree program in Geography includes foundation courses as well as opportunity for specialization in some aspect of Applied Geography. Thirty hours of approved graduate credits must be completed, of which at least twenty hours should be in geography. Students take ten hours of core courses (Geographic Research, Professional Skills, and Spatial Analysis). Subsequently they select at least a three-course concentration in one of three areas: Environmental and Resources Analysis, Community Development and Planning, Geographic Techniques. Individualized planned program is also possible. The Graduate Certificate in GIScience develops competencies in geographic information system, remote sensing, and spatial analysis for post baccalaureate students with no or limited GIScience background. It requires a minimum of 19 credits including core and elective courses.

The Department has 6 computer laboratories for teaching/learning and research to support GIS, Physical meteorology, remote sensing, urban and regional planning, and physical geography. Equipment includes state-of-the-art computer hardware and geographic and statistical analysis software. The department operates the W.E. Upjohn Center for the Study of Geographical Change, which provides the academic community world class document, maps, photographs, and text preservation and digitalization. The center has the world's best equipment for large format scanning. The department also actively cooperates with the University's interdisciplinary Environmental Studies Program, the University's Health Data Research, Analysis and Mapping Center (HDReAM), University's Transportation Research Center for Livable Communities, and in the Michigan Geographic Alliance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The University operates on a semester system and 122 semester credit hours of acceptable course study in a planned curriculum are necessary to receive a degree. First year students must submit ACT scores and transfer students must provide transcripts from their institution for admission. Undergraduate scholarships, student employment and assistantships are available through the Department of Geography. Per the rules of the College of Arts & Sciences, all undergraduate geography majors are required to take a minor outside of geography.

GRADUATE: Graduate courses are concentrated during the Fall and Spring semesters, although academic progress may be accelerated through independent study during the Summer I and II terms. Students with at least a 3.0 grade-point average (A=4.0) during the last four semesters of undergraduate work are eligible for admission to the program. Students make general application for admission thorough the Admission Office online site. Teaching and Research Assistantships for the academic year (September-April) are available. Applications for financial assistantship submitted to the Department of Geography. Graduate assistants are provided office space, as are other graduate students insofar as possible.

FACULTY:

Kathleen Baker, Ph.D., Michigan State, 2002, Associate Professor & Acting Director, W.E. Upjohn Center for the Study of Geographical Change — geographic information systems, physical geography, geoddata information processing, global positioning systems, computer mapping, surveying techniques, remote sensing, geospatial techniques, spatial analysis, quantitative methods agricultural and biogeography

Matthew Borr, M.A. Western Michigan University, Instructor — geographic information systems, physical geography

Stephen R. Cameron, ABD, Michigan State, 2007, Instructor — Latin America & land cover change, regional geography, geospatial techniques

Lisa DeChano, Ph.D., Southwest Texas, 2000, Associate Professor — environmental geography, physical geography, hazards, environmental impacts, sports geography, space studies, general physics

Todd Ellis,PhD, Colorado State University, 2008, Assistant Professor — meteorology and climatology, earth science education k-12, informal atmospheric, remote sensing,

Charles Emerson, Ph.D., Iowa, 1996, Associate Professor — geographic information systems, global positioning systems, computer mapping, surveying techniques, remote sensing, geospatial techniques, spatial analysis, quantitative methods

Michael Gutowsky, M.A. Western Michigan University, Instructor — geographic information systems, physical geography, political geography, remote sensing, regional geography

Lucius Hallett IV, Ph.D., Kansas, 2007. Associate Professor — human geography, tourism and travel, culinary geography and food networks, regional geography, agricultural geography, agritourism

Rebecca Harvey, M.A., Western Michigan University, 1988, AICP American Institute of Certified Planners, PCP State of Michigan Professional Community Planner, Instructor — community and regional planning, planning zoning, groundwater protection, local land use, development of open space, community planning consultant

Chansheng He, Ph.D., Michigan State, 1992, Professor — natural resource management, geographic information systems, agricultural zoning, agronomy, physical geography, water resource management

David Lemberg, Ph.D., AICP, California-Santa Barbara, 1998, Associate Professor — community and regional development planning

James McManus, M.A. Western Michigan University, 1992, B.S. Valparaiso University, 1987, AICP American Institute of Certified Planners, PCP State of Michigan Professional Community Planner, Instructor — geographic information systems (GIS), physical geography, community and regional planning, planning zoning, groundwater protection, local land use, soil erosion program, county planning director since 1994

Lei Meng, Ph.D., Texas A&M University, 2009, Assistant Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics

Benjamin Ofori-Amoah, Ph.D., Simon Fraser, 1990, Professor, Department Chair & Acting Director, W.E. Upjohn Center for the Study of Geographical Change — economic geography, economic development, urban and regional planning, geographic information systems, Africa

Joseph P. Stoltman, Ed.D., Georgia, 1971, Professor — geographic education, cultural geography, cartographic visualization

Gregory Veeck, Ph.D., Georgia, 1988, Professor — economic geography, agricultural geography, China, qualitative methods, research methods in geography, agritourism, political geography

JessicaWesel, M.A. Western Michigan University — environmental geography

Li Yang, Ph.D., Waterloo, 2007, Associate Professor — tourism planning, tourism marketing, and cultural tourism

Laiyin Zhu, Ph.D., Texas A&M University,2013, Assistant Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics, geographic information systems

ADJUNCT FACULTY:

Michelle Metro-Roland, PhD, Indiana University, 2008 — cultural and urban geography, landscape, tourism, semiotics

EMERITI FACULTY:

David G. Dickason, PhD, Indiana — land and water resources assessment, geodata information processing, South Asia

Val Eichenlaub, Ph.D., Ohio State — meteorology and climatology, U.S. and Canada

Rainer R. Erhart, Ph.D., Illinois — remote sensing, physical geography, biogeography

Charles F. Heller, Ph.D., Illinois — agriculture, urban social, historical geography

Eugene C. Kirchherr, Ph.D., Northwestern — urban geography, urban and regional planning, Sub-Saharan Africa, political

Philip P. Micklin, Ph.D., Washington — post-Soviet states, conservation, environmental impact assessment, Aral Sea

Eldor C. Quandt, Ph.D., Michigan State — tourism and travel, population, Scandinavia

Hans J. Stolle, Ph.D., Wisconsin-Madison — cartography, computer graphics, remote sensing, cartographic visualization

W.E. Upjohn Center for the Study of Geographical Change:

Kathleen Baker, Ph.D., Michigan State, 2002, Associate Professor & Acting Director, W.E. Upjohn Center for the Study of Geographical Change — geographic information systems, physical geography, geoddata information processing, global positioning systems, computer mapping, surveying techniques, remote sensing, geospatial techniques, spatial analysis, quantitative methods agricultural and biogeography

Gregory Anderson, B.S., Western Michigan — geographic information system analysis

Kevin Agema, B.S., Western Michigan — geographic information system analysis

MINNESOTA

GUSTAVUS ADOLPHUS COLLEGE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1952
DEGREES OFFERED: B.A.
GRANTED 8/22/15-8/22/16: 13 Bachelors
CHAIR: Anna Versluis
DEPARTMENT ADMINISTRATIVE ASST: Ms. Judy Helmeke

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Gustavus Adolphus College, 800 W College Ave., Saint Peter, Minnesota 56082.
Telephone (507) 933-7320. Fax (507) 933-6285.
E-mail: jlafreni@gustavus.edu.
Internet: https://gustavus.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography cultivates in our students a holistic understanding of human-environment relationships; a critical awareness of environmental, economic, political, and cultural global change; and knowledge of the world's diverse regions. We seek to play a major role in the College's mission of providing an education that "is both interdisciplinary and international in perspective" while simultaneously modeling effective, just engagement with local communities. Our courses are intellectually stimulating: students are challenged to new understandings of the world around them while developing deeper values of community, service, and justice. We encourage curiosity, problem-solving, "real world" field experiences, collaboration, reflection, and strong communication. Field study of both social and biogeophysical phenomena, mapping, scale dynamics, and geospatial analysis and modeling are fundamental to how geographers work. The department encourages student-faculty collaborative research, and students from the department regularly present papers at academic conferences. Our graduates continue on to successful careers in natural resource management, urban and regional planning, geospatial analysis, education and research, business, international and community development, and environmental law and policy. According to a recent alumni survey, two thirds of Gustavus Geography alumni hold a graduate degree.

The department is located on the first floor of the Nobel Hall of Science. The Robert Moline Map Library is housed in the department and features a collection of nearly 100,000 maps from around the world. GIS facilities include a server with an extensive digital map collection for Minnesota and a PC laboratory with twenty-one computers equipped with a wide array of statistical, environmental modeling, and GIS software including ArcGIS, ERDAS IMAGINE, IDRISI, and Orthomapper. The Jacobson Climatology Laboratory, departmental weather station, groundwater well-field, and a stream monitoring station provide instructional and research opportunities for students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Gustavus Adolphus College is on a semester plan. Admission requirements are available from: Office of Admissions, Gustavus Adolphus College, Saint Peter, Minnesota 56082 (https://gustavus.edu/admission/), Tel. (507) 933-7676 or 1-800-GUSTAVUS; E-mail: admission@gustavus.edu. Financial Aid information may be obtained from: Financial Aid Office, Gustavus Adolphus College, Saint Peter, Minnesota 56082 (https://gustavus.edu/admission/financial-aid/). Prospective students are welcome to contact the department chair to arrange a departmental tour and a meeting with faculty. College employment is available in the Map Library or as a teaching assistant.

FACULTY:
Lencho Bati, M.A., Hamline University, 2004, Visiting Instructor — economic development, Africa, democracy, Middle East, human rights
Jeff La Frenierre, Ph.D., Ohio State University, 2014, Assistant Professor — physical geography, GIS, mountain geography, water resources, cryosphere, climate change
Anna Versluis, Ph.D., Clark University, 2008, Associate Professor and Chair — human-environment, political ecology, Haiti, remote sensing, disasters
Joaquín Villanueva, Ph.D., Syracuse University, 2013, Assistant Professor — urban geography, political geography, Europe, legal geography

ITASCA COMMUNITY COLLEGE

GEOGRAPHY DEPARTMENT
DATE FOUNDED: 1999
DEGREES OFFERED: Associate in Science in Geography/Geographic Information Systems (60 credits, mostly online); GIS Professional Certificate (16 credits, entirely online).
DEGREES GRANTED 9/1/14 – 8/31/15: 25
MAJORS: Geography/GIS; GIS Professional Certificate
CHAIR: Timothy Fox

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Timothy Fox, Itasca Community College, 1851 E. Hwy 169, Grand Rapids, Minnesota, 55744. Timothy.Fox@itascacc.edu. 218-322-2364 http://www.itascacc.edu/academics/area-of-study/gis/

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Academic Plans: http://www.itascacc.edu/ | Academics | Programs & Majors | Geography & GIS.

Application for Admission: http://www.itascacc.edu/academics/icc-online/welcome-online-learners!/

Financial Aid: http://www.itascacc.edu/finaid

FACULTY:
Timothy Fox, Geography/GIS/Sciences Faculty
Michael LeClaire, GIS Faculty
Kim Nelson, GIS Faculty

MACALESTER COLLEGE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1947
DEGREES OFFERED: B.A.
GRANTED 9/1/14-8/31/15: 25 Bachelors
MAJORS: 102
CHAIR: Holly R. Barcus
DEPARTMENT COORDINATOR: Laura J. Kigin

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Macalester College, 1600 Grand Avenue, Saint Paul, Minnesota 55105-1899 USA.

Telephone: 651.696.6249. Fax: 651.696.6116.
E-mail: kigin@macalester.edu.
Website: www.macalester.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The department focuses on urban and regional planning; cartography and geographic information systems; human-environment geography; medical and population geography; development geography; and area studies. Majors in geography are required to take at least one research seminar. Independent work is encouraged. Many students do an internship. Courses often include service learning or action research activities. The department's Geospatial Analysis Lab uses ArcGIS software primarily and maintains extensive databases for local projects and regional US explorations. In addition to the campus library, students have interlibrary loan privileges from neighboring liberal arts colleges in the Twin Cities and from the University of Minnesota libraries. The department hosts the NGS-sponsored Minnesota Alliance for Geographic Education.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Two semesters, fall and spring. Information regarding admission requirements and financial aid may be obtained by contacting the Admissions Office, Macalester College, 1600 Grand Avenue, St. Paul, MN 55105-1899 (toll-free 800-231-7974). Approximately 79 percent of Macalester's students receive some form of financial aid.

FACULTY:

Holly R. Barcus, Ph.D., Kansas State, 2001, Professor — population, GIS, rural geography, Mongolia, migration

Eric Carter, Ph.D., Wisconsin, 2005, Edens Associate Professor of Geography and Global Health — medical, environment and development, Latin America

I-Chun Catherine Chang, Ph.D., Minnesota, 2015, Assistant Professor — global urbanism, economic, political ecology, East Asia

David A. Lanegran, Ph.D., Minnesota, 1970, Professor Emeritus

William G. Moseley, Ph.D., Georgia, 2001, Professor — human-environment, development, agriculture, Africa

Ashley Nepp, MGIS, Minnesota, 2011 — GIS Lab Instructor -- GIS, cartography, Geovisualization

Jerry Pitzl, Ph.D., Minnesota, 1974, Professor Emeritus

Laura J. Smith, Ph.D., Minnesota, 2004, Associate Professor — urban economic, North America, Native Americans, qualitative methods

Daniel Trudeau, Ph.D., Colorado, 2006, Associate Professor — urban social, political, cultural, qualitative methods

MINNESOTA STATE UNIVERSITY, MANKATO

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1953
GRADUATE PROGRAM FOUNDED: 1953
DEGREES OFFERED: Geography - B.A., B.S., M.S.; Earth Science - B.A., B.S., B.S.Ed.; Geographic Information Science - Certificate, P.S.M.; Geomorphology & Earth Surface Processes - Certificate
GRANTED: 9/1/14-8/31/15: 56 Bachelors, 7 Masters
STUDENTS IN RESIDENCE: 102 Majors, 28 Masters
NOT IN RESIDENCE: 10 Masters
CHAIR: Donald A. Friend
DEPARTMENT OFFICE MANAGER: Carol Reedstrom

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Minnesota State University, Mankato, 206 Morris Hall, Mankato, Minnesota 56001.
Telephone (507) 389-2617. Fax (507) 389-2980.
E-mail: carol.reedstrom@mnsu.edu
Internet: http://sbs.mnsu.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: Traditional and professionally oriented graduate and undergraduate programs are offered. Faculty expertise in GIS; remote sensing; GPS; cartography; quantitative and field methods; natural resources; biogeography; geomorphology; economic, political, urban and historical geography; and earth and atmospheric sciences. Regional emphases include North America – especially the American West and South, Latin America, the Caribbean, Europe, East and South Asia. Also offered are interdisciplinary undergraduate degrees in Earth Science and the Geography core for Social Science both with options for secondary teacher licensure.

The Department has two state-of-the-science geospatial analysis and cartographic computer laboratories. The 28-seat lab (PC-based) includes: the full suite of ESRI Products, TransCAD, SPSS, ERDAS Imagine, IDRISI, Trimble Pathfinder, and others. The 15-seat lab (Mac-based) includes: the full suite of Adobe products, SPSS, GRASS-GIS and others. Both labs are networked at high speed to departmental servers with 30 terabytes of dedicated memory. The labs each have color laser and wax, large format color inkjet, and b/w laser printers. For field mapping applications and training, the department has over two-dozen DGPS/GNSS units. The department also hosts a cutting edge weather and climate laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The academic year has two 16-week semesters; a bachelor's degree requires 120 credit hours. The geography major requires a 14-hour core and 18 hours of electives that must include foreign regional, seminar and techniques courses. A foreign language is required for the B.A. Generally, entering freshmen must be in the upper half of their high school graduating class, and must maintain a 2.0 grade point average; similar criteria apply to transfer students.

GRADUATE: MS - Thesis-plan candidates must complete 30 semester hours of graduate work; alternate-plan (internship) candidates must complete 34 semester hours. All requirements of the Graduate College must be met. Several assistantships with tuition waiver are available on a competitive basis. A completed bachelor's degree, undergraduate GPA of 3.0, three letters of recommendation and a 500-word statement of intent are required for admission. Scores from the GRE are not required for admission but will be considered. PSM (Professional Science Master's) must complete 30 semester hours of graduate work, half in GIScience, half in MBA "professional skills" courses. A capstone project and/or internship are required.

FACULTY:

Donald A. Friend, Ph.D., Arizona State, 1997, Professor — physical, geomorphology, mountain environments, conservation

Woo Jang, Ph.D., Georgia, 2012, Associate Professor — transportation, spatial analysis & modeling, GIScience, GPS

Phillip Larson, Ph.D., Arizona State, 2013, Assistant Professor — fluvial geomorphology, physical

Jose Javier Lopez, Ph.D., Indiana State, 1998, Professor — economic and social, Latin America, quantitative methods

Cynthia A. Miller, Ph.D., Syracuse, 1991, Associate Professor — historical, cultural, North America, field studies

Martin D. Mitchell, Ph.D., Illinois, 1993, Professor and Distinguished Faculty Scholar — climatology, natural resources, cartography, the American West and Middle West

Rama Mohapatra, Ph.D., Wisconsin-Milwaukee, 2012, Associate Professor — GIScience, remote sensing, urban, South Asia

Ginger Schmid, Ph.D., Texas State, 2004, Associate Professor — soils, geographic education, physical

Forrest D. Wilkerson, Ph.D., Texas State, 2004, Associate Professor — field methods, biogeography, geomorphology, American West, Minnesota

Fei Yuan, Ph.D., Minnesota, 2004, Professor and Distinguished Faculty Scholar — remote sensing, GIScience, East Asia

ADJUNCT FACULTY:

Thomas Maertens, Foreign Service Institute, US Dept. of State — Security

Raymond Schmidt, M.S., Minnesota State, 2010, Instructor — Cultural

UNIVERSITY OF MINNESOTA, DULUTH

DEPARTMENT OF GEOGRAPHY, URBAN, ENVIRONMENT & SUSTAINABILITY STUDIES

DATE FOUNDED: 1912

DEGREES OFFERED: B.A. in Geography (GEOG), B.A. in Geographic Information Science (GIS), B.A. in Environment & Sustainability Studies (ES), B.A. in Urban and Regional Studies (URS), Minors in GEOG, GIS, and ES, Undergraduate Certificate and Graduate Certificate in GIS

DEGREES GRANTED 9/1/14-8/31/15: 9 Bachelors in GEOG; 12 Bachelors in GIS; 20 Bachelors in ES; 3 Bachelors in URS; 6 GIS Certificates

MAJORS: 18 Geography; 27 GIS; 90 ES; 21 URS

DEPARTMENT HEAD: Pat Farrell

DEPARTMENT ADMINISTRATOR: Linda Klint

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Urban, Environment & Sustainability Studies, University of Minnesota-Duluth, 324 Cina Hall, 1123 University Drive, Duluth, Minnesota, 55812. Also visit UMD's home page at http://www.d.umn.edu/ and the Geography Urban, Environment & Sustainability Studies department home page at https://cla.d.umn.edu/departments/guess Telephone (218) 726-6300 (departmental office) or (218) 726-7076 (department head). Fax (218) 726-6540 Email: umdgeog@d.umn.edu

PROGRAMS AND RESEARCH FACILITIES: The department offers majors and minors in Geography, Geographic Information Science, Environment & Sustainability, a major in Urban and Regional Studies, and undergraduate and graduate certificates in Geographic Information Science. These programs provide professional and academic preparation for careers related to geography, GIS, environment & sustainability, and urban and regional studies, as well as for graduate work in these areas, and for teaching in secondary schools. These programs offer a full range of regional and topical courses, including world regional geography; human geography; urban planning; physical geography; soils geography; water resources and hydrology; economic and development; weather & climate; global resources; urban ecology; environment & sustainability; food systems; conservation and planning; geographic information sciences including map design and graphic methods, animated and multimedia maps, geographic information systems, and remote sensing; field techniques; geographic thought; and opportunities for independent study courses of special interest to the student. Students in all programs have many opportunities for internships with public and private agencies in their respective fields of interest. The Geography, Urban, Environment & Sustainability Studies department administers the Center for Sustainable Community Development, the Center for Community and Regional Research, the Sustainable Agriculture Program, and contributes to the International Studies program. The Department of Geography, Urban, Environment & Sustainability Studies houses and maintains a Physical Geography and Soils Laboratory complete with equipment for highly detailed soil analysis. The department also works in close relationship to the Geospatial Analysis Center (GAC), which is managed by a full-time Geographic Information Scientist with 2 full time research associates. This research/instructional facility is comprised of 10 cartographic/GIS/visualization workstations, scanners and a variety of color output platforms and an additional instructional facility is comprised of 25 cartographic/GIS/visualization workstations. In addition, the university maintains 9 large computing laboratories/classrooms, and a digital imaging lab, with Windows and Macintosh microcomputers, having direct access to all University of Minnesota computing systems.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, and FINANCIAL AID: University of Minnesota Duluth, with an enrollment of 10,000, is the second largest of the five campuses that comprise the University of Minnesota System. UMD is on the semester calendar system. Applications for admission to UMD and to the Geography, Geographic Information Science, Environment & Sustainability, or Urban and Regional Studies Programs may be obtained by visiting UMD's Web Site at http://www.d.umn.edu/undergraduate-admissions or by writing the Admissions Office, 25 Solon Campus Center, 1117 University Drive, Duluth, MN 55812-3000. Prospective applicants should request information regarding financial aid along with the admissions request.

FULL AND PART-TIME FACULTY:

Ryan Bergstrom, Ph.D., Kansas State University, 2012, Assistant Professor — Physical, Soils, Weather and Climate, Environmental

Kate Carlson, MS, University of Akron Ohio, 2002, Instructor — Cartography and Geographic Information Science

Laure Charleaux, Ph.D., Joseph Fornier University, 2003, Assistant Professor — Cartography and Geographic Information Science, Europe, Mobility and Transportation

Nathan Clough, Ph.D., University of Minnesota, 2010, Assistant Professor — Cultural, political, urban, Economic, cultural diversity, development

Pat Farrell, Ph.D., University of Cincinnati, 1997, Associate Professor and Department Head — Physical, Soils, Weather and Climate, Latin America

Randel, Hanson, Ph.D., University of Minnesota, 1998, Assistant Professor — Food Systems, Environmental, Climate, Economic

Olaf Kuhlke, Ph.D., Kent State University, 2001, Associate Professor and Associate Dean of College of Liberal Arts — Cultural, youth culture, nationalism, political, ecology, urban environments, religion

Mike Mageau, Ph.D., University of Maryland Institute for Ecological Economics, 1998, Assistant Professor and Director of the Environment & Sustainability Studies Program — Environmental Science, systems ecology, ecological economics, energy

Adam Pine, Ph.D., Rutgers University, 2007, Associate Professor and Coordinator of the Urban and Regional Studies Program — Urban Geography, Urban Planning

Tongxin Zhu, Ph.D., University of Toronto, 1998, Professor — Physical, hydrology, fluvial geomorphology, environmental applications of

EMERITI FACULTY:

Gordon L. Levine, Ph.D., University of Michigan, 1977 — Economic, transportation, East and Southeast Asia, Minnesota, field techniques

UNIVERSITY OF MINNESOTA, TWIN CITIES

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT AND SOCIETY
DATE FOUNDED: 1925
GRADUATE PROGRAM FOUNDED: 1930s
DEGREES OFFERED: B.A. (BSE); B.A., B.S. (Geog.); B.A., B.S. (Urban Studies); M.GIS; M.A., Ph.D (Geog).
GRANTED 7/1/14-6/30/15: 161 B.A./B.S., 4 M.A., 19 M.GIS, 4 Ph.D.
STUDENTS IN RESIDENCE: 660 B.A./B.S.; 11 M.A.; 50 M.GIS; 46 Ph.D.
NOT IN RESIDENCE: 5
CHAIR: Abdi Samatar
DEPARTMENT ADMINISTRATOR: Glen L. Powell

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Sara Braun, DGS Assistant, Department of Geography, Environment and Society, University of Minnesota, 267 19th Avenue South, Minneapolis, MN 55455. Email: braun217@umn.edu Telephone (612) 625-0864. Fax (612) 624-1044.
World Wide Web: http://www.geog.umn.edu/.

PROGRAMS AND RESEARCH FACILITIES: Minnesota's graduate and professional programs in Geography and Geographic Information Science prepare students for careers in academia, industry, government, and not-for-profit sectors. Our top-ranked department provides a setting for graduate study or professional training in one of the nation's outstanding public land-grant research universities, located at the heart of one of America's most attractive and vital metropolitan areas.

We provide up-to-date computing, cartography/GIS, and physical geography laboratories, support for tree-ring analysis, soil characterization, and paleoenvironmental reconstruction, and one of the nation's finest libraries supporting all graduate, professional and undergraduate research and training programs. Students work with leading hardware and software used in contemporary research, teaching, and commercial applications.

The M.A. program meets needs of the early- and mid-career students pursuing post-graduate studies in any area of human or physical geography, foreign-area study, international development, or geographic information science. Student programs are individually designed, with emphases that vary from the general liberal arts, environmental science, and skill-based professional preparation, to preparatory work for the Ph.D.

The M.GIS program provides graduate-level work in the theory, applications, and technology of geographic information science. Courses for the program are divided into three broad categories. Core courses provide the conceptual and theoretical underpinnings for a comprehensive, well-rounded knowledge of GIS, including an introductory seminar for entering students. A set of technology courses focus on specific software and techniques in GIS. Elective courses provide additional breadth to the program by allowing students to take courses related to their area of interest.

Ph.D. students work closely with their chosen advisers in designing individualized programs that meet their interests, needs and employment opportunities. Most doctoral students design interdisciplinary programs that take advantage of Minnesota's expertise in cognate areas as represented by the Interdisciplinary Center for the Study of Global Change, the Institute on the Environment, the Institute for Advanced Study, and within the Hubert H. Humphrey Institute of Public Affairs, School of Public Health, College of Natural Resources, College of Agricultural, Food and Environmental Sciences, as well as other top-ranked social science departments in the College of Liberal Arts.

Faculty and students collaborate in research and publication. We believe our research programs should be useful to society domestically and internationally. Various departmental institutions foster community and intellectual exchange—weekly coffee hours, informal bi-weekly reading groups, visiting scholar brown-bags, and the annual Ralph H. Brown lecture and awards banquet.

Areas of faculty and graduate student research interest and expertise include: *Biogeography:* forest dynamics; grassland dynamics; environmental stability and change; human disturbance; agroclimatology; climate-biosphere interactions; *Cartography:* symbolization; scale problems and generalization; multimedia cartography; cartographic design; digital cartographic production; spatial visualization; history of cartography; *Geographic Information Science*: spatial data handling methods; exploratory spatial data analysis; design of data systems; GIS and society; *Climatology*: climate variability; climate modeling; temperature and precipitation climatology; wind climatology; paleoclimates; climate change; *Cultural Studies of the Environment:* society-environment relations; cultural and urban landscape analysis/ interpretation; cultural memory and place; political ecology; qualitative methods of geographic research; *Cultural Geography:* new cultural geography; landscape and memory; politics of place and identity; cultures of nationalisms; race, ethnicity and sexuality; postcoloniality; migration and transnational cultures; *Economic Development:* regional inequalities; local development initiatives; problems of development in Africa, Asia and Latin America; *Feminist Geography:* social theory; planning history and urban theory; gender, sexuality and the city; feminist methods; *Geographic Education:* cognitive development and geographical learning; environmental education; *Geography of the Developing World:* development geography, political geography and agrarian change; *Historical Geography and Regional Analysis*: public land policy; Scandinavia; Europe; Russia and environs; the European Union; Latin America; the Islamic world; U.S. and Canada; *Land Use and Environmental Planning;* environmental risk assessment; environment quality; geographic research in city and regional planning; *Physical Geography:* paleoenvironments; water resources; environmental change; population geography; processes and impacts of international migrations; *Regional Economic Development:* political economy; development theory and the state; *Society-Environment Relations:* cultural studies of the environment; political ecology; environmental justice; science studies; *Geographical Thought and Practice:* social and cultural theory; society and space; history and philosophy of geography; feminist theory; *U.S. and Canadian Studies:* rural geography; historical geography of North America; minority settlements in America; American metropolitan evolution; *Urban Geography:* New Urbanism; public urban landscapes; culture of cities; transportation and land use; real estate; American cities; urban and regional economic analysis; feminist perspectives on the city.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: *Admission*— Requirements are those of the College of Liberal Arts. Prospective students should consult the *Bulletin* of the College for details.

Degree Requirements: The department offers both B.A. and B.S. degrees in geography, urban studies **and an interdisciplinary degree in biology, environment and society**. Programs may be structured within a variety of teaching/research areas of the department or may be designed individually in consultation with **an adviser**. Students complete a senior project.

Graduate: *Admission (M.A./Ph.D.)* — Based on a combination of undergraduate and, if appropriate, graduate grade point averages;

scores (for graduates of U.S. institutions) on the Graduate Record Examination that are less than five years old; statement of purpose; and three letters of evaluation. No single criterion dominates but the combination must demonstrate potential for success in a highly individualized graduate program. Applications from students lacking an undergraduate major in geography are welcome but such students may be asked to make up deficiencies. Application deadline is December 15; all applications are evaluated once each year in early January.

Admission (MGIS) — Requires a Bachelors degree with a preferred cumulative grade point average of 3.0. Additional requirements include completion of one college-level course in mathematics, statistics, and computer programming. The GRE is not required. For international applicants, an English Language Proficiency Exam such as TOEFL, IELTS, or MELAB is required.. Applicants should understand that the admissions process is competitive, based on a careful assessment of each applicant's file, and that we can only offer admission to a limited number of qualified applicants to ensure high quality advising and accessibility to facilities and other resources. All application materials are submitted online and must be submitted by January 30 for Fall admission; September 1 for Spring semester admission.

M.A. Degree Requirements: The department offers two plans for the M.A. degree. Plan A *thesis option* [20 credit hours + 10 thesis credits; minimum 14 credit hours within department and 6 credit hours outside department] includes work in supporting fields or a minor, plus a thesis. Plan B *papers option* [30 credit hours; minimum 14 credit hours within department and 6 credit hours outside department] includes work in a supporting field or a minor, plus three masters papers. Those students intending to continue on to the PhD are encouraged to complete the Plan B option which allows them to further develop the three master's papers into the comprehensive papers required for the PhD in a more timely manner.

MGIS Degree Requirements: This degree is offered Plan C (coursework only) and requires 35 credits of course work.. For more details on MGIS degree requirements, visit: http://cla.umn.edu/mgis/program/master-geographic-information-science

Ph.D. Degree Requirements: The Ph.D. is awarded for successful completion of three comprehensive papers, a preliminary oral examination, and the completion and defense of a dissertation. Complete requirements are as follows: 1) Coursework -52 credit hours: 16 credit hours in department + 12 credit hours outside department + 24 thesis credits; 2) Completion of 8001 [Problems in Geographic Thought] + 8405 [Professional Development Seminar] + two additional GEOG 8xxx (graduate level) courses. Students must include at least one methods course in their graduate degree plan. Additionally, they must include at least one proposal-writing course in their graduate degree plan. The methods and proposal-writing requirements may be fulfilled by courses outside the department; 3) Preparation of a research dossier; 4) Preliminary exams (taken in Spring of 3rd year [semester 6]; earlier where appropriate for students entering with MA/MS; 5) Examination of dissertation proposal (within 3 months of completing preliminary exams); 6) Defense of dissertation.

The foreign language/methodology requirements are similar to those for the M.A. Degree Programs and are individually designed in consultation with a faculty adviser.

Financial Aid: The University of Minnesota operates on a semester system. All admitted students (unless otherwise noted in their acceptance letter) will be supported through a combination of fellowships, teaching assistantships and/or research assistantships as follows: 5 years if entering with a BA; 4 years if entering with an MA. All options usually provide a stipend, tuition waiver, and health insurance. Summer support for field work is typically awarded to all incoming graduate students, and is available, on a competitive basis, to all students after their first year.

HUMAN RIGHTS STATEMENT: The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

FACULTY:

Bruce P. Braun, Ph.D., University of British Columbia, 1996, Professor — society-environment relations, political ecology, social and cultural theory, cultural studies of the environment

Peter Calow, D.Sc.University of Leeds UK, 1984, Professor — science and public policy, focusing on risk of chemicals in the environment.

Kate Derickson, Ph.D., The Pennsylvania State University, 2011, Assistant Professor — Urban political economy, race and racialization, feminist and critical epistemology, engaged scholarship, land use and environmental politics, social and political theory

Dodge, S., Ph.D., University of Zurich, 2011, Assistant professor — GIScience, movement analysis and modeling, spatiotemporal analytics, agent-based simulation, geographic visualization, movement ecology, movement-environment interactions.

Vinay K. Gidwani, Ph.D. UC-Berkeley, 1997, Professor — development economics; agrarian/environmental studies

Kathryn Grace, Ph.D. UC-Santa Barbara, 2008, Assistant Professor — population geography, demography, health, development, food security and land cover land use change, quantitative and qualitative analysis

Daniel Griffin, Ph.D. University of Arizona, 2013, Assistant Professor — climate science; environmental change; water resource issues; dendrochronology

George Henderson, Ph.D., UC-Berkeley, 1992, Professor — Marxism; post-capitalist politics; value theory of labor; Marxist cultural critique

Kurt F. Kipfmueller, Ph.D., University of Arizona, 2003, Associate Professor — Biogeography, paleoclimatology, forest dynamics, dendrochronology

Katherine Klink, Ph.D., Delaware, 1992, Associate Professor — physical climatology, climate-biosphere interactions, climate modeling, quantitative methods

Mark B. Lindberg, Ph.D., Kansas, 1987, Senior Cartographer, Adjunct Associate Professor, co-director of MGIS Program — geographic information systems, digital cartographic production, cartographic design

Steven M. Manson, Ph.D., Clark, 2002, Professor — nature-society relationships; land use-land cover change; human dimensions of global change; biocomplexity; socioeconomic vulnerability; Latin America

Robert B. McMaster, Ph.D., Kansas, 1983, Professor — geographic information science/systems, cartographic design and visualization, quantitative methods and spatial analysis, environmental risk assessment and justice, geographic information science and society

Arun Saldanha, Ph.D., Open University (UK), 2004, Associate Professor — race relations, geography of music, geography of tourism, poststructuralist philosophy, feminism, anthropology

Abdi I. Samatar, Ph.D., UC-Berkeley, 1985, Professor — development geography, political economy and agrarian change, development theory and the State, Africa

Eric Shook, Ph.D., University of Illinois at Urbana-Champaign, 2013, Assistant Professor — cyberGIS, geographic information science, agent-based modeling, high-performance computing

Ying Song, Ph.D., The Ohio State University, 2015, Assistant Professor — GIScience, time geography, spatio-temporal modeling and analysis, transportation geography

Roderick H. Squires, Ph.D., Durham, 1970, Associate Professor — environment quality, public land policy, real estate, evolution of landscapes, political ecology of Minnesota

Scott St. George, Ph.D., University of Arizona, 2007, Associate Professor — paleoclimatology, climate dynamics, natural hazards, and climate impacts on renewable energy

ADJUNCT FACULTY:

Susan L. Craddock, Ph.D., UC-Berkeley, Associate Professor, Women's Studies — social geography and political ecology of health; women's health in historical and geographical perspective; U.S., India

William Craig, Ph.D., Minnesota, 1980, Associate Director, Center for Urban and Regional Affairs, co-director of MGIS Program — geographic information systems, public policy analysis

Jeff Crump, Ph.D., University of Nebraska-Lincoln, 1989, Associate Professor, Housing Studies — housing and patterns of urban development

Timothy J. Griffis, Ph.D., McMaster University, 2000, Professor, Soil, Water and Climate — boundary layer climatology, biometeorology, land-atmosphere interactions

Lawrence M. Knopp, Jr., Ph.D., Iowa, 1989, Director, Interdisciplinary Arts & Sciences, University of Washington Tacoma — urban, political, gender, sexuality, social theory

William G. Moseley, Ph.D., University of Georgia, Athens, 2001, Professor, Macalester College — Political ecology, tropical agriculture, food security, environment and development, West and Southern Africa

Ann R. Markusen, Ph.D., Michigan State, 1974, Professor, Planning and Public Affairs, Humphrey Institute of Public Affairs — urban and regional economic development, urban and regional planning

Richa Nagar, Ph.D., Minnesota, 1995, Professor, Women's Studies — development studies, gender studies, South Asia, East Africa, geographic perspectives on women, socialist geography

Hari Osofsky, J.D., Yale, 1998, Associate Professor and 2011 Lampert Fesler Research Fellow, University of Minnesota Law School — Climate change, clean energy, environmental justice, law and geography

EMERITUS FACULTY:

**John S. Adams, Ph.D., Minnesota, 1966, Professor Emeritus* — American cities, regional economic analysis, housing, transportation, Russia and environs

**Dwight A. Brown, Ph.D., Kansas, 1968, Professor Emeritus* — physical, paleoenvironments, water resources, geographic information systems, biogeography

**Philip J. Gersmehl, Ph.D., Georgia, 1970, Professor Emeritus; Adjunct Professor, American Studies* — environmental, education, North America, multi-media cartography, geographic information systems

**John Fraser Hart, Ph.D., Northwestern, 1950, Professor Emeritus* — rural, U.S. and Canada, geographic writing

**Helga Leitner, Ph.D., Vienna, 1978, Professor Emerita; Professor, Department of Geography, UCLA* — urban, political, international migrations, social theory, GIS & society, Europe, European Union

**Philip W. Porter, Ph.D., London, 1957, Professor Emeritus; Adjunct Professor, Department of Afro-American and African Studies* — Africa, tropical agroclimatology, development, cartography

**Joseph E. Schwartzberg, Ph.D., Wisconsin, 1960, Professor Emeritus* — South Asia, political, historical cartography, history of cartography

**Earl P. Scott, Ph.D., Michigan, 1974, Professor Emeritus; Adjunct Professor, Department of Afro-American and African Studies* — human/landscape geography, economic development from the perspective of small-scale enterprises, Africa, minority settlements in America with emphasis on the African Diaspora

**Eric Sheppard, Ph.D., Toronto, 1977, Professor Emeritus; Humboldt Chair and Professor of Geography, Department of Geography, UCLA* — economic geography, political economy, quantitative methods, philosophical foundations of geography, economic development, environmental justice, GIS & society, local development initiatives

**Richard H. Skaggs, Ph.D., Kansas, 1967, Professor Emeritus; Adjunct Professor, Department of Soil, Water, and Climate* — climatology, physical, long-term temperature trends, impacts of climate variability

**Connie H. Weil, Ph.D., Columbia, 1980, Associate Professor Emeritus* — medical, Latin America, geographic education

MGIS FACULTY:

For a listing of MGIS faculty, see:
http://cla.umn.edu/mgis/people/faculty

MISSOURI

MISSOURI STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, GEOLOGY AND PLANNING

DEGREES OFFERED: B.A. in Geography; B.S. in Geography; B.S. in Geospatial Science; B.S. in Planning; B.S. in Earth Science Education; B.S. in Geology; M.S. in Geospatial Science in Geography, Geology and Planning; M.S. in Natural and Applied Science; Geospatial Information Sciences Certificate

CHAIR: Toby Dogwiler

FOR FURTHER INFORMATION ON UNDERGRADUATE PROGRAMS: Email or write to Susan Blades, Department of Geography, Geology and Planning, Missouri State University, Springfield, MO 65897. Email: SusanBlades@missouristate.edu or ggp@missouristate.edu.

FOR FUTHER INFORMATION ON GRADUATE PROGRAMS: Email or write to Dr. Doug Gouzie, Department of Geography, Geology and Planning, Missouri State University, Springfield, MO 65897. Email: DouglasGouzie@missouristate.edu

Undergraduate: The Department of Geography, Geology, and Planning (GGP) offers undergraduate majors in Geography, Geology, Planning, Geospatial Science, and Earth Science Education. The B.S. in Geography requires a minor and has three areas of emphasis: Cultural and Regional Geography, Environmental and Natural Resources, and Geotourism. The interdisciplinary comprehensive major in Planning includes courses in Geography, Economics, Political Science, and Sociology. The interdisciplinary comprehensive major in Geospatial Science includes courses in Geospatial Science, Geography, Geology, Mathematics, Computer Science, and Industrial Technology.

The department houses two different institutes: the Ozarks Environmental and Water Resources Institute (OEWRI) and the Center for Resource Planning and Management (CRPM). These institutes provide departmental majors with practical work experience, mentoring, and support at the undergraduate and graduate level through a variety of projects, field studies, and internships with public, private, and not-for-profit organizations. OEWRI is a leader in watershed science research including fluvial geomorphology, flood hydrology, storm water management, water quality testing and monitoring, and sediment and soil quality. Having active Geographic Information Systems (GIS) faculty, research, and equipment in the same department allows a broad range of research and teaching on

topics including land resource analysis, landscape and land use analysis, socio-spatial accessibility to urban resources, urban transportation analysis/planning, hazard mitigation planning, and environmental geochemistry.

Graduate: The department offers an M.S. in Geospatial Sciences in Geography, Geology and Planning designed to provide professional training and to develop scholarly analytical skills in geospatial science and apply these skills to research questions in human/cultural and physical geography, planning, and environmental geology.

RESEARCH FACILITIES:
Along with OEWRI and CRPM, the department has excellent research and teaching facilities and equipment that support undergraduate and graduate programs in GIS/Remote Sensing including state-of-the-art digital photogrammetry and on-line capability for advanced computer-based GIS. In addition, Missouri State University's Meyer Library is a government document repository housing a Map Library with more than 250,000 maps and a large and growing collection of aerial photographs.

ADMISSION REQUIREMENTS:
Undergraduate Admissions: Missouri State University uses a fall/spring semester plan with four, five, and eight week summer sessions. Admission decisions are made without regard to age, race, color, creed, sex, sexual orientation, disability, or national origin. Applications must be received two weeks before the beginning of the enrollment semester. Fall semester begins in mid-to-late August. Spring semester begins in mid-January. The University's financial aid handbook and scholarship application forms may be obtained by writing to Director of Student Financial Aid, Missouri State University, Springfield, MO 65897.

Graduate Admissions: Students should apply on-line or request application forms from the Admissions Office. All applicants must submit GRE scores, transcripts and at least two letters of reference. Full admission requires a 3.0 GPA or better to be considered for graduate assistantships, but conditional admission may be granted to students with a GPA of 2.75 or better. Applications may be submitted at any time, but applications submitted by February 15th typically receive full consideration for Fall Semester funding. Because no specific undergraduate major is required, some students may be admitted on a conditional basis. Teaching and research assistantships typically include waiver of tuition and out-of-state fees.

FACULTY:
Damon Bassett, M.S., University of Missouri-Columbia, 2003 — Paleontology.
Alice (Jill) Black, Ph.D., University of Missouri, 2002 — Earth Science Education.
Deborah Corcoran, M.S., Michigan State, 1980 — Medical Geography, World Regional Geography.
Toby Dogwiler, Ph.D. University of Missouri-Columbia, 2002 — Hydroclimatology, Applied GIS, Karst Geomorphology.
Kevin R. Evans, Ph.D., Kansas, 1997 — Geology, Stratigraphy, Impact geology.
Douglas Gouzie, Ph.D., Kentucky, 1986 — Karst Geohydrology, Karst Geomorphology.
Mélida Gutiérrez, Ph.D., Texas-El Paso, 1992 — Geochemistry, Stratigraphy.
Linnea Iantria M.S., George Washington University, 2006 — Geotourism, World Regional Geography.
Rajinder S. Jutla, Ph.D., Virginia Polytechnic, 1995 — Planning. Urban Design.
Jun Luo, Ph.D., Wisconsin-Milwaukee, 2006 — GIS, Spatial Modeling, Remote Sensing.
Ron Malega, Ph.D., University of Georgia, 2010 — Social Geography, Equity Planning, Crime and Policing.
Diane May, M.S., Southern Illinois-Edwardsville, 1974 — Director, Center for Resource Planning and Management, Community and Regional Planning.
Matthew P. McKay, PH.D. University of Alabama, 2015 — Structural Geology, Petrology.
Judith L. Meyer, Ph.D., Wisconsin-Madison, 1994 — Historical Geography, National Parks, Sustainability.
Xin Miao, Ph.D, UC-Berkeley, 2005 — Remote Sensing, GIS, Spatial Modeling.
Kevin Mickus, Ph.D., Texas-El Paso, 1989 — Geophysics.
Gary Michelfelder, Ph.D. Montana State University, 2015 — Volcanology, Isotope Geochemistry, Igneous Petrology.
Robert T. Pavlowsky, Ph.D., Wisconsin-Madison, 1995 — Director, Ozarks Environmental and Water Resources Institute. Geomorphology, Physical Geography.
Xiaomin, Qiu, Ph.D., San Marcos, Texas, 2006 — Geography Education, Cartography, GIS.
Charles Rovey, Ph.D., Wisconsin-Milwaukee, 1990 — Hydrogeology, Environmental Geology.

NORTHWEST MISSOURI STATE UNIVERSITY

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES
DATE FOUNDED: Geography 1970; combined 2012
DEGREES OFFERED: B.A. and B.S. Geography; B.S. Geographic Information Science; M.S. Geographic Information Science (online), graduate certificate Geographic Information Science (online); B.S. Emergency and Disaster Management; B.S. Criminology; B.A. and B.S. History; B.A. and B.S. Political Science; B.A. and B.S. Liberal Arts and Sciences; B.A. Philosophy; B.S. Public Administration; B.S.Ed. Social Science; M.S.Ed. Teaching History
DEGREES GRANTED 9/1/14-8/31/15: 9 Bachelors; 40 M.S. GIScience; 6 Graduate GIScience Certificates
MAJORS: 37 in Geography/GIScience; 26 Masters in GIScience; 15 Graduate GIScience Certificates
CHAIR: Joel Benson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Humanities and Social Sciences, Northwest Missouri State University, Maryville, Missouri 64468.
(660) 562-1290. Fax (660) 562-1241.
E-mail: jbenson@nwmissouri.edu.
Internet: http://www.nwmissouri.edu/socialsciences/index.htm. For information about the online M.S. in Geographic Information Science, see http://www.nwmissouri.edu/dept/gis.

PROGRAMS AND RESEARCH FACILITIES: A broad-based undergraduate geography program is offered with concentrations in GIS/cartography/remote sensing and environment/resource management.

The department offers an online Master of Science degree in Geographic Information Science. The degree program focuses on applications of GIS in research and industry. Students may earn a graduate certificate in GIS by taking a subset of courses required for the Masters degree.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: Bachelor's degrees in geography require 30-37 credit hours and a minor, depending on the major emphasis and degree. The comprehensive major in geographic information science requires 53

credit hours. Minors offered by the department require 18-28 credit hours, depending on the subject area.

Thesis and non-thesis options are available for the M.S. in Geographic Information Science. The thesis option requires completion of 27-30 hours of approved graduate courses and 5 hours of thesis credit. The non-thesis research option requires completion of 33-36 hours of approved graduate courses and a research paper. Candidates must meet program admission requirements that include completion of a four-year undergraduate degree from an accredited college or university with an undergraduate GPA of 2.75 on a 4.0 scale; minimum verbal plus quantitative GRE score of 286 (students not meeting this score must maintain a 3.0 average for the first nine hours of graduate credit before admission to candidacy); two letters of recommendation; and a writing sample to be evaluated during the student's first trimester. GRE scores are not required for applicants for the graduate certificate program. For additional information, see http://www.nwmissouri.edu/dept/gis.

FACULTY:

Geography/GIS

Jeffrey Bradley, M.S., Oklahoma State, 1991, Senior Instructor — physical, natural disasters

Brett Chloupek, Ph.D., Kansas, 2013, Assistant Professor — cultural, political, historical, Europe

Mark Corson, Ph.D., South Carolina, 1997, Professor — emergency management and homeland security, geospatial intelligence, political, military

Patricia Drews, Ph.D., South Carolina, 1999, Professor and GIScience Program Director — GIS, quantitative methods

Theodore Goudge, Ed.D., Oklahoma State, 1984, Associate Professor — sport geography

Ming-Chih Hung, Ph.D., Utah, 2003, Professor — GIS, remote sensing

Kevin Romig, Ph.D., Arizona State, 2004, Assistant Professor — urban, cultural, environment

Yi-Hwa Wu, Ph.D., Utah, 2003, Associate Professor — GIS, geocomputation

Emergency and Disaster Management

John Carr, M.S., North Dakota State, Instructor

History

Joel Benson, Ph.D., Miami, Professor
Elyssa Ford, Ph.D., Arizona State, Assistant Professor
Matt Johnson, M.A., Northwest Missouri State, Senior Instructor
Devlin Scofield, Ph.D., Michigan State, Assistant Professor
Dana Ternus, M.A., Northwest Missouri State, Lecturer
Robert Voss, Ph.D., Nebraska-Lincoln, Assistant Professor

Humanities

Dawn Gilley, Ph.D., Missouri-Columbia, Associate Professor

Philosophy

James Eiswert, Ph.D., University of Leuven, Associate Professor
Richard Field, Ph.D., Southern Illinois at Carbondale, Associate Professor

Political Science

Kimberly Casey, Ph.D., Missouri-St. Louis, Assistant Professor
Luke Campbell, Ph.D., Kansas, Assistant Professor
Jessica Gracey, Ph.D., Missouri-St. Louis, Assistant Professor
Brian Hesse, Ph.D., London School of Economics and Political Science, Professor
David Jerome, Ph.D., Arkansas-Fayetteville, Assistant Professor
Daniel Smith, J.D., Virginia, Assistant Professor

Criminology

Kamala Tabor, M.A., Sophia University, Instructor

UNIVERSITY OF MISSOURI-COLUMBIA

DEPARTMENT OF GEOGRAPHY AND GEOGRAPHIC RESOURCES CENTER
DATE FOUNDED: 1950
GRADUATE PROGRAM FOUNDED: 1950
DEGREES OFFERED: B.A., M.A.
GRANTED 8-21-14 through 5-31-15: 25 Bachelors, 5 Masters
STUDENTS IN RESIDENCE: 51 Majors, 13 Masters
CHAIR: Michael Urban
DEPARTMENT ADMINISTRATIVE ASSISTANT: Dina Nichols

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, University of Missouri-Columbia, 8 Stewart Hall, Columbia, MO 65211-6170.
Telephone (573) 882-8370. Fax (573) 884-4239.
E-mail: geog@missouri.edu. Internet: www.geog.missouri.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The B.A. degree in Geography requires 36 semester hours, including 21 hours of core courses with 15 additional hours in one of four emphasis areas and a secondary area in geography. The following four emphasis areas allow students to further focus on the undergraduate degree program around their own personal interests in geography: human/regional/cultural geography, geographic information sciences, physical/environmental geography, and general geography. There are Certificate Programs in Geographic Information Science (GIS) and Geospatial Intelligence (GEOINT). Writing skills are emphasized, and dual degrees are common. A special honors program is available. The University maintains a strong undergraduate study abroad program.

GRADUATE: The M.A. degree offered by the department requires 32 hours of coursework coupled with research project. Thesis and non-thesis options exist. Programs are tailored to fit the individual needs and interests of students, make liberal use of cognate fields, and commonly focus on a) Human Geography: cultural, population, historical, urban, and Indigenous geography, b) Nature/Society Relationships: interface of environment and humans, particularly the political, social, philosophical and economic implications of environmental change, c) Physical Geography: environmental processes and their modification by humans, particularly for biogeographic and geomorphic systems, and d) Applied Geosciences. The Geographic Resources Center functions as both a teaching and research facility, serving as an interdisciplinary center for computer graphics, remote sensing and GIS. Graduates of our program are well prepared to succeed in top doctoral programs in Geography as well as professional employment in fields such as Geographic Information Sciences, environmental management, planning and preservation. Our graduates are found in local, state and federal government agencies, the private sector, and non-governmental organizations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. A combination of the applicant's high school class rank and an ACT, SAT, or SCAT test score determines admission to the University as a freshman. Students become geography majors by filing an approved Geography Graduation Plan. Information on financial aid should be obtained from high school counselors or from the Student Financial Aid Office, 11 Jesse Hall, UMC, Columbia, MO 65211.

GRADUATE: Semester system. The Geography Department bases admission decisions in large part on the applicant's 1) record of

scholarship as an undergraduate, 2) GRE scores, 3) letters of recommendation, 4) statement of purpose, and 5) compatibility of scholarly interests with those of the faculty. In general the minimum undergraduate GPA should exceed 3.0 (on a 4.0 scale), and combined verbal and quantitative GRE scores should meet or exceed 300. International students must submit TOEFL scores that demonstrate a strong command of the English language. Teaching and Research Assistantships are awarded to graduate students each academic year and include remission of tuition and fees. To be considered for either a teaching or research assistantship, university and departmental applications (including letters of reference) must be received by February 1. The M.A. program is intended to be a two-year program, concluding with the defense of the master's thesis or other professional research project.

FACULTY:

Clayton F. Blodgett, PhD, University of Kansas, 2004, Assistant Teaching Professor — remote sensing, geographic information systems, spatial statistics/environmental modeling, conservation ecology, biogeography, landscape ecology

Grant P. Elliott, Ph.D., Minnesota, 2009, Assistant Professor — vegetation-climate interactions; ecotonal dynamics of upper treeline; dendroecology; disturbance ecology; climate change; dendroclimatology; mountain environments

Matthew Foulkes, Ph.D., Illinois, Urbana-Champaign, 2002, Associate Professor — demographics, migration and rural development

Joseph J. Hobbs, Ph.D., Texas-Austin, 1986, Professor — Middle East, cultural ecology, environmental issues in developing countries, indigenous peoples, Vietnam programs

Douglas A Hurt, Ph.D., Oklahoma, 2000, Assistant Teaching Professor — historical geography, tourism, sport and regional identity, geographic education, Missouri

Soren C. Larsen, Ph.D., Kansas, 2002, Associate Professor — politics of place, political ecology, sustainable development, indigenous peoples, territoriality, ethnography and qualitative methods

Timothy C. Matisziw, Ph.D., Ohio State University, 2005, Associate professor — network analysis and design; location modeling; environmental conservation; urban/regional planning and risk assessment; geographic information science; transportation geography; urban/regional planning

Mark H. Palmer, Ph.D., University of Oklahoma, 2006, Associate Professor — indigenous geographies, geographic information systems, natural resources, North America, history of cartography, qualitative methods, place-based approach to earth systems science

Michael A. Urban, Ph.D., Illinois, Urbana-Champaign, 2000, Associate Professor, Chair — fluvial geomorphology, anthropogenic landscape change, environmental ethics in environmental management, geographic thought

EMERITI FACULTY:

Gail S. Ludwig, D.A., Northern Colorado, 1977, Associate Professor — educational technology, remote sensing, map interpretation, geographic education, research methods

William Noble, Ph.D., Louisiana State University, 1968, Associate Professor — Asia, settlement geography, physical geography, indigenous peoples

Christopher L. (Kit) Salter, Ph.D., University of California-Berkeley, 1970, Professor — Cultural geography, landscape analysis, China, geography education, field geography

Walter A. Schroeder, Ph.D., Missouri-Columbia, 2000, Associate Professor — physical, historical, Missouri

ADJUNCT FACULTY:

Larry Brown, Ph.D., Missouri-Columbia, 2003, Resident Instructor Assistant Professor — cultural geography, political geography, Middle America, geography of religion

C. Mark Cowell, Ph.D., Georgia, 1992, Associate Professor — biogeography, landscape ecology, historical vegetation studies, field geography

Curt H. Davis, Ph.D., University of Kansas, 1992 — radar systems, RF & microwave signal propagation, wireless communication systems, satellite and airborne remote sensing systems, satellite altimetry, high resolution earth image processing, ice sheet mapping and change detection, digital elevation models, urban mapping and feature extraction, and geospatial information processing

William R. Elliott, Ph.D, Texas Tech University, 1976, Cave biologist for the Missouri Department of Conservation — Cave ecology, taxonomy and evolution, biogeography, caving techniques and safety, cave and karst management

Robert Jacobson, Ph.D. Johns Hopkins, 1985 — Geologic hazards, watershed processes, paleoseismology, geomorphology, and neotectonics

TECHNICAL STAFF:

Timothy Haithcoat, M.S., Missouri-Columbia, 1987, Director, Geographic Resources Center (GRC) and MSDIS; Deputy Director, Center for Geospatial Intelligence — Spatial data analysis, digital image processing, conflation, error mapping

Mark Duewell, Program Manager, Missouri Spatial Data Information Service (MSDIS) Missouri geospatial clearinghouse

Martin Wills, B.Sc. (Hons) Environmental Science, Manchester Metropolitan University, UK, 1997, Internet Administrator — website design and maintenance

Thomas Vought, ABD., Kansas State, 2011, Research Specialist — Broadband mapping, human geography, cartography

James Harlan, M.A., Missouri-Columbia, 1996, Senior Research Specialist and Assistant Director, GRC — historical landscape ecology, spatial modeling, census and demographics, cartography

Bryan D. Mayhan, M.A. University of Missouri, 2000, Research Associate — GIS and spatial analysis, soil genesis and morphology, hydrology, geomorphology, urbanization.

Jason Hinsen, B.S., University of Missouri-Columbia, 2005, Research Specialist

Richard Charrier, B.A. University of Missouri-Columbia, 1995, History, M.A. University of Missouri-Columbia, 2009, Geography, Geographic Information System Specialist

Robin Hargis, University of Missouri, 2013, BA – Geographical Sciences; BS – Biological Sciences, Senior Research Specialist

Lindlie Haithcoat, Research Project Specialist

MONTANA

THE UNIVERSITY OF MONTANA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1956
GRADUATE PROGRAM FOUNDED: 1965
DEGREES OFFERED: B.A., B.S., M.A., M.S.
GRANTED 9/1/14- 8/31/15: 27 Bachelors, 9 Masters
STUDENTS IN RESIDENCE: 62 Majors, 15 Masters
CHAIR: Christiane von Reichert (2013-2016); Incoming: David Shively
DEPARTMENTAL ADMINISTRATIVE ASSOCIATE: Angela Melton-Paisley

FOR FURTHER INFORMATION CONTACT: Department of Geography, University of Montana, Stone Hall 208, Missoula, Montana 59812-0648.

Telephone: (406) 243-4302. Fax: (406) 243-4840.
E-mail: geog@umontana.edu. Internet: http://hs.umt.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers baccalaureate and graduate degrees with or without options, focusing on Mountain Environments, Community and Environmental Planning, and Geospatial Technologies and Perspectives/GIS. The Bachelor of Arts program is designed to provide students with an integrative, liberal-arts education, while the Bachelor of Sciences offers a stronger footing in mathematics and sciences (STEM). The B.A. is offered with option in Community and Environmental Planning, and the B.S. can be pursued with option in Physical Geography We also offer an interdisciplinary Certificate in GIS Sciences and Technologies and house an undergraduate Minor in Mountain Studies. The minor takes an interdisciplinary approach to the study of mountain geography and human-mountain relations, drawing on courses in geography, geosciences, biology, forestry, and recreation management. Additionally, the Department of Geography contributes to two interdisciplinary minors: the Minor in Climate Change Studies, and the Minor in International Development Studies. Pursuit of a Geography major in combination with a minor in an allied field has become increasingly common. Students majoring in secondary education may elect geography as a major or minor area of endorsement.

The Master of Arts is offered without option (general geography) and the Master of Science is offered without option, with option in Cartography and GIS, and with option in Community and Environmental Planning. Geography graduate program with or without options give students the opportunity to pursue one of the following tracks: a thesis track, a professional paper track, or a non-thesis (exam and portfolio) track. The choice of tracks offers graduate students much flexibility in matching their graduate education with their career goals. Credits vary by option and track, typically requiring a commitment of two years. Interdepartmental collaboration and research based upon field work are encouraged. Further information can be found at the department's website: http://hs.umt.edu/geography/.

Geography's Geospatial Research and Teaching (GReaT) Laboratories are comprised of a 24-seat teaching classroom and a 15-seat student-use lab. A comprehensive selection of GIS software is available, including ArcGIS, ENVI, Erdas, Idrisi, PCIGeomatica, TransCAD, GeoDa, Feature Analyst, LiDAR Analyst, Sketchup Pro, MapViewer, Surfer, Grapher, and Trimble products. Additional software includes SPSS, R, NVIVO, Adobe Creative Suite, Microsoft products, and more.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: The University of Montana operates on a semester system, with two sixteen-week semesters; a three-week winter session in January; two five-week and one ten-week summer sessions; as well as specialized short-course sessions.

Prospective undergraduate students should consult *The University of Montana 2016-2017 Catalog* or contact Admissions and New Student Services at *http://admissions.umt.edu/*, for information regarding admission requirements.

Graduate applications must be accompanied by official transcripts, three letters of recommendation, official GRE or TOEFL scores, and a letter of intent, explaining why an applicant wishes to pursue a graduate degree in Geography and why in our department. Completed applications must be received by March 1st for Fall Semester Admission and TA consideration. To be considered for a teaching assistantship, applications must include a letter stating interest in and describing qualifications for a TAship. Applications for admission may be considered after March 1st based on available capacity. Information regarding the graduate application procedure is available on The University of Montana's Graduate School website, *http://www.umt.edu/grad/*.

The Department of Geography has several graduate teaching assistantships that carry a stipend and remission of tuition. The department is also allotted several part-time positions for undergraduate students through the university's work-study program. Opportunities for employment related to faculty research or consulting projects are increasingly available. Information regarding other potential sources of financial assistance can be obtained from the Financial Aid Office http://www.umt.edu/finaid/

FACULTY:

T.H. Diep Dao, Ph.D., North Carolina at Charlotte, 2013, Assistant Professor — Geographical Information Science (GIScience), spatial analysis and modeling, spatial data mining, geocomputation, GPS-based positioning and navigation

Rick Graetz, Doctorate of Honorary Letters, Montana, 2004, Lecturer — Montana, mountains, North America

Sarah J. Halvorson, Ph.D., Colorado, 2000, Professor — health, gender, water resources, mountain environments, hazards, qualitative methods, Asia, Africa

Ulrich Kamp, Dr. rer. nat. (Ph.D.), Technical University of Berlin, 1999, Professor — high-mountain geography, quaternary, geomorphology, glaciology, environmental and climate change, natural hazards, river restoration, remote sensing, Middle East, South Asia, South America, Europe

Anna E. Klene, Ph.D., Delaware, 2005, Associate Professor — climate, cryosphere, global change, remote sensing and GIS, Arctic and mountain geomorphology

Kevin G. McManigal, M.S., Montana, 2011, Lecturer — cartography, GIS, remote sensing, mountain geography, glaciology

Christiane von Reichert, Ph.D., Idaho, 1992, Professor — migration, economic geography of rural areas, transportation, quantitative methods, socio-demographic analysis, Europe

David D. Shively, Ph.D., Oregon State, 1999, Professor and incoming Chair — community and environmental planning, water resources management, hazards, North America

Thomas Sullivan, Ph.D., Louisiana State, 2010, Visiting Assistant Professor — social and cultural geography, urban/neighborhood planning, sustainable transportation, place and identity studies, American West

Christiane von Reichert, Ph.D., Idaho, 1992, Professor and Chair (2013-2016) — community, population and migration, rural areas, economic geography, socio-demographic analysis, transportation, Europe

EMERITUS FACULTY:

John M. Crowley, Ph.D., Minnesota, 1964, Professor Emeritus — mountains, biogeography, Rocky Mountains, Montana

John J. Donahue, Ph.D., Syracuse, 1971, Professor Emeritus — landforms, aerial-photograph interpretation, GIS

Jeffrey A. Gritzner, Ph.D., Chicago, 1986, Professor Emeritus — cultural, historical, political, agricultural, environmental change, environmental planning, Middle East and Central Asia, Africa, The American West

Paul B. Wilson, Ph.D., Nebraska-Lincoln, 1972, Professor Emeritus —cartography and GIS, urban, North America

AFFILIATED FACULTY & ADJUNCT INSTRUCTORS:

Donald Alford, Ph.D., Colorado-Boulder, 1973
Heather Almquist, Ph.D., Lund (Sweden), 1994
Kyle Balke, M.S., Montana, 2010
Laura Becerra, Ph.D., Montana, 2015
Claudia Carr, Ph.D., Chicago, 1977
Rory Cowie, Ph.D., Colorado-Boulder, 2014
Faith Ann Heinsch, Ph.D., Texas A&M, 2002
Zachary A. Holden, Ph.D. Idaho, 2008
Ia Iashvili, Ph.D., Tbilisi State, Georgia, 1998
Irena Mrak, Ph.D., Ljubljana, Slovenia, 2009

Leah Samberg, Ph.D., Santa Cruz, 2011
Tamara Wall, Ph.D., Montana, 2007
Hans Zuuring, Ph.D. Iowa State, 1974

NEBRASKA

UNIVERSITY OF NEBRASKA, KEARNEY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1960
DEGREES OFFERED: B.A., B.S., B.A. Ed., B.S. Ed.
GRANTED 9/1/2013-5/15/14: 7 Bachelors
MAJORS: 28
CHAIR: Jason Combs
DEPARTMENT ADMINISTRATIVE ASST: Valerie Vierk

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Jason Combs, Department of Geography, University of Nebraska-Kearney, 203 Copeland Hall, Kearney, Nebraska 68849. Telephone (308) 865-8355. E-mail: combshj@unk.edu.
Internet: http://www.unk.edu/academics/geography/index.php.

PROGRAMS AND RESEARCH FACILITIES:
The department provides a well-rounded undergraduate major and minor in geography, including a B.S. degree emphasizing GIScience and an interdisciplinary Environmental Science minor. A teaching subject endorsement in geography is also available for students seeking education degrees. Department curriculum aims toward a broad yet integrated perspective on the discipline. The University of Nebraska-Kearney emphasizes undergraduate research and geography students have numerous opportunities for independent projects and to work closely with faculty on research initiatives. The department is located on the second floor of Copeland Hall. GIScience facilities include a ten-PC instructional lab equipped with adequate server storage, large-format scanner, ArcGIS, Erdas Imagine, Adobe Illustrator, SPSS, and Microsoft Office software. Additional PCs are available to support student and faculty research. Other equipment includes mapping-grade GPS units, a commercial-grade Gidding's probe with dedicated truck, spectra radiometer, soil moisture probe, evapotranspiration gage, water quality monitoring system, and portable and permanent weather stations. The department also houses a collection of historic air photos covering Nebraska and has an active Gamma Theta Upsilon chapter.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system, including four, five, and eight week summer terms. Additional information on admission and financial aid can be obtained by writing the Office of Admissions, University of Nebraska-Kearney, Kearney, Nebraska 68849 or consulting the University web site at http://www.unk.edu/index.php.

FACULTY:
John Bauer, Ph.D., Kansas 2006, Associate Professor — cultural, North America, cartography, GIS
Vijendra Boken, Ph.D., University of Manitoba 1999, Professor — remote sensing, agriculture, water resources
Paul Burger, Ed.D., Oklahoma State University 1997, Professor — GIS, economic, population, political
H. Jason Combs, Ph.D., University of Nebraska 2000, Professor and Chair — cultural, human, urban
Jeremy Dillon, Ph.D., University of Kansas 2002, Professor — soils, geomorphology
Nathan Eidem, Ph.D., Oregon State University 2011, Lecturer — GIS, environmental
Matthew Engel, Ph.D., University of Nebraska 2007, Lecturer — human, cultural, world regional

UNIVERSITY OF NEBRASKA, LINCOLN

GEOGRAPHY AND SPATIAL SCIENCE
DATE FOUNDED: 1906
GRADUATE PROGRAM FOUNDED: 1906
DEGREES OFFERED: BA, BS, MA, PhD
DEGREES GRANTED 2015-2016: 10 Bachelors, 1 Masters, 1 PhD
STUDENTS: 37 Majors, 16 Masters, 12 PhD
DEPARTMENT CHAIR: Paul Hanson
GRADUATE CHAIR: Elizabeth Walter-Shea

FOR INFORMATION CONTACT: Geography and Spatial Science, School of Natural Resources, University of Nebraska-Lincoln, 3310 Holdrege St., Lincoln, NE 68583-0973. Telephone: (402) 472-7762. Fax: (402) 472-2946 E-mail: phanson2@unl.edu. Internet: http://snr.unl.edu/geographygis/index.asp

PROGRAMS AND RESEARCH FACILITIES:
Undergraduate: Students can earn either a Bachelor of Arts or Bachelor of Science in Geography. The undergraduate program provides a broad liberal arts education in physical, human and regional geography combined with courses in Geographic Information Science (remote sensing and GIS), research skills and quantitative methods. The program prepares students for positions in government and industry, and also for graduate work in geography or related fields.

Graduate: Graduate students can pursue either a MA or PhD in Geography. Students have considerable flexibility in designing programs tailored to their individual interests and career goals. Particularly strong programs exist in: (1) *Geographic Information Science* (remote sensing and GIS), capitalizing on the strengths and facilities of the Center for Advanced Land Management Information Technologies (CALMIT) and National Drought Mitigation Center (NDMC); (2) *Historical and Human Geography.* Continuing a long tradition of research in cultural and regional geography, students and faculty foci include historical settlement, land use change, environmental perception, Native American studies, Great Plains studies, population and settlement patterns and political behavior; (3) *Natural Resources*. Students can pursue interdisciplinary studies in geomorphology, conservation biology, water resources, natural hazards, climatology and related areas in conjunction with faculty of the School of Natural Resources; and, (4) *Community and Regional Planning*. Students may pursue a cross-disciplinary PhD combining strengths of Geography and the Department of Community and Regional Planning.

Geography faculty and student offices are located in Hardin Hall, a modern research and classroom facility that also houses other units of the School of Natural Resources. The facility includes specialized laboratories and several nationally-recognized research centers including the Center for Advanced Land Management Information Technologies (CALMIT), the High Plains Regional Climate Center (HPRCC) and the National Drought Mitigation Center (NDMC). Students have access to state-of-the-art computing including image processing and GIS software such as ArcGIS, ERDAS Imagine and ENVI. Through CALMIT, UNL geographers have opportunities to use unique close-range remote sensing capabilities and an aircraft for supporting remote sensing research. Faculty and students in

Geography regularly collaborate with UNL's Center for Great Plains Studies, the Department of Community and Regional Planning, the Department of Agronomy and Horticulture and the University of Nebraska Medical Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: UNL operates on the semester system. Students seeking admission to the MA program should have a BA or BS degree in geography or a cognate field. GRE scores are required. The MA requires 30 hours of coursework (including thesis). A non-thesis MA option requires 36 hours of coursework. For admission to the PhD program, applicants should have a Master's degree in geography or a related field (with thesis). GRE scores are required. Approximately 36 hours of coursework are required, plus a dissertation, written and oral comprehensives and proficiency in one research tool.

Graduate teaching assistantships are available for qualified Master's and Ph.D. students. Research assistantships may be available through the various Centers within the School of Natural Resources. Assistantships provide 12 hours of tuition each semester and basic individual student health insurance at a reduced premium. Graduate teaching assistants work approximately 15 hours per week, most commonly as laboratory instructors. MA students are eligible for two years of support, and PhD students for three years of funding. University fellowships are available to persons with outstanding qualifications. Completed applications are due January 15 for those wishing to be considered for financial aid and due April 15 for admission only. The University of Nebraska is an Affirmative Action Equal Opportunity Institution.

FACULTY:

Douglas M. Amedeo, PhD, Iowa, 1967, Professor Emeritus—spatial theory, quantitative analysis, environment and behavior, diffusion

J. Clark Archer, PhD, Iowa, 1974, Professor—political, settlement, computer cartography, GIS

Rebecca A. Buller, PhD, Nebraska, 2009, Lecturer—historical and cultural geography, historical geography of the Great Plains, women's and gender studies

John Carroll, PhD, North Dakota, 1989, Director of SNR and Professor— population biologist

Kenneth Dewey, PhD, Toronto, 1973, Professor—climate variations, severe weather

Anatoly A. Gitelson, PhD, IRT, 1972, Professor Emeritus—remote sensing of water quality, vegetation and the atmosphere

Paul R. Hanson, PhD, Nebraska, 2005, Associate Director of SNR and Assistant Professor—geomorphology and landforms, climate change, physical geography of Nebraska and the Great Plains

R. M. (Matt) Joeckel, PhD, Iowa, 1993, Professor—surficial processes and landforms, soils and weathering, physical geography of Nebraska and the Great Plains

Cody Knutson, PhD, Nebraska, 2004, Research Associate Professor—environmental, development, and cultural, water resources and drought, risk management, environmental perceptions and justice, participatory decision making, qualitative/quantitative methods

Merlin P. Lawson, PhD, Clark, 1973, Professor Emeritus, Geosciences—climate change, climate reconstruction, remote sensing

Katherine Nashleanas, PhD, Nebraska, 2005, Lecturer—human geography, ethnic studies, Africa, human dimensions of natural resources

Juan Paulo Ramirez, PhD, Nebraska, 2003, Lecturer—Latin America, environmental and human evaluations using GIS, design of surveys, statistical analysis

Donald C. Rundquist, PhD, Nebraska, 1977, Professor Emeritus—remote sensing, geographic information systems (GIS)

Robert H. Stoddard, PhD, Iowa, 1966, Professor Emeritus—human/social, field techniques; South Asia

Brian D. Wardlow, PhD, Kansas, 2005, Associate Professor—remote sensing, GIS, drought, land use/land cover characterization, biogeography, and environmental studies

David J. Wishart, PhD, Nebraska 1971, Professor—historical, dispossession of indigenous peoples, epistemology of Geography and History; Great Plains

Arthur I. Zygielbaum, PhD, Nebraska 2009, Research Associate Professor—remote sensing of vegetation, GIScience

AFFILIATED FACULTY:

Rodrigo F. Cantarero, PhD, Southern California, 1988, Associate Professor, Community and Regional Planning—urban and regional planning, GIS

Ge Lin, Ph.D. SUNY at Buffalo, 1996, Associate Professor, Department of Health Services Research & Administration, College of Public Health, University of Nebraska Medical Center—geographic information systems, spatial statistics and modeling, health geography

Yunwoo Nam, PhD, Pennsylvania, Associate Professor, Community and Regional Planning—public policy and urban spatial structure, GIS & analytic methods in planning, metropolitan policy, urban modeling, land use & transportation interaction, policy processes and networks

Gordon Scholz, MBA, Nebraska-Omaha, 1974, Professor, Community and Regional Planning—historic preservation, land development, planning and design

Zhenghong Tang, PhD, Texas A&M, 2007, Assistant Professor, Community and Regional Planning—GIS and risk analysis

UNIVERSITY OF NEBRASKA, OMAHA

DEPARTMENT OF GEOGRAPHY-GEOLOGY
DATE FOUNDED: 1958
GRADUATE PROGRAM FOUNDED: 1965
DEGREES OFFERED: B.A., B.S., M.A.
GRANTED 9/1/14-8/31/15: 25 Bachelors, 8 Masters
STUDENTS IN RESIDENCE: 110 Majors, 60 Masters
NOT IN RESIDENCE: 7 Masters
PROGRAM DIRECTOR: Rex Cammack
DEPARTMENT ADMINISTRATIVE ASST: Brenda Todd

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Graduate Program Committee, Department of Geography-Geology, University of Nebraska at Omaha, Omaha, Nebraska 68182-0199. Telephone (402) 554-2662. Fax (402) 554-3518.
Web www.unomaha.edu/geogeo/.

PROGRAM AND RESEARCH FACILITIES: The Graduate Program in Geography provides training in the basic geographic skills and opportunity for graduate work in a spectrum of systematic and scientific fields. The Master of Arts degree consists of 30 hours; 24 hours of approved graduate work and 6 semester hours of thesis. A non-thesis option is also offered for 36 hours of coursework, to include comprehensive written and oral examinations. Individual programs of study are designed for incoming graduate students on the basis of previous course work and personal interviews. The History and Philosophy of Geography and Research Methods courses are required of all graduate students.

Introductory, advanced, and seminar courses are offered in four major areas of study: 1) Geographic Information Science (GIScience) - Computer Mapping and Visualization, Geographic Information Systems, Environmental Remote Sensing, Cartographic Methods, Quantitative Analysis; 2) Physical & Environmental Geography-Conservation of Natural Resources, Biogeography, Geomorphology,

Climatology, Field Methods, Soils, Water Resources; 3) Urban-Regional Planning-Urban Geography, Land Use, Metropolitan Planning, Urban Community, Internship in Regional Planning; 4) Human Geography-Political Geography, Economic Geography, Cultural Geography, Feminist Geography. Students generally specialize in one area but are encouraged to take courses in all four.

The Department of Geography and Geology houses state-of-the-art laboratory and computational facilities. Separate computer labs for cartography and GIS support instruction and research. The cartography lab consists of 10 Macintosh Pro computers with 24" monitors. The GIS lab houses 16 PC computers with dual 19" monitors. Software includes Adobe CS and ESRI ArcGIS. The department also contains the Remote Sensing and Geocomputation Laboratory that contains state-of-the-art computer systems and software. The laboratory is used for classroom instruction and research by students and faculty.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: The Department offers B.A. and B.S. degrees in geography, geology, environmental geography and planning, and environmental earth sciences, as well as a certificate in Geographic Information Systems.

Geography majors are required to take a core of required courses in human, physical and regional geography, plus cartography for a minimum of 24 semester hours. In addition, they must take at least one systematic, one regional and one techniques course to satisfy the undergraduate distribution requirements. Twelve hours of electives, at the upper-division level, complete the minimum of 36 hours for a degree in geography. Sixteen hours of a foreign language are required for the B.A., and fifteen hours of designated math, statistics, computer science and writing courses are required for the B.S. The environmental studies major has an earth science track with emphasis mostly in geology and physical geography, and a geography and planning track with emphasis in geographic techniques.

Graduate: An applicant for admission should have a prerequisite minimum of 15 semester hours of geography, including human and physical geography and cartography, with a minimum GPA of 3.0 on a 4.0 scale in the major program. A good background in physical geography is expected for teaching assistants. Deficiencies must be made up during the student's first year. Students are expected to be familiar with basic computer skills and statistics, as well as collateral courses in the physical sciences, economics, history, and sociology relevant to the geographical interests in which the student wishes to specialize. Students interested in remote sensing and GIS must have computer programming skills.

A number of assistantships are available each year for qualified applicants. Most assistants teach laboratories or discussions in physical geography. The standard ten-month assistantship carries a stipend of $13,030 plus remission of twelve hours of tuition each semester including summer school. Assistants are expected to work about 20 hours per week.

UNO is committed to a program of affirmative action. Applications for admission and for graduate assistantships from women and members of minority groups are encouraged. As an equal opportunity employer, UNO is seeking the best qualified persons for graduate assistantships.

All applications to the Geography Graduate Program are handled through UNOs Graduate Studies website: http://www.unomaha.edu/graduate/. Applications to the graduate program require: a letter of intent, a resume, and two letters of recommendation. The GRE is recommended for admission to the program but is required to be considered for a teaching assistantship. Teaching assistantship forms can be found on the department's website: http://www.unomaha.edu/geogeo/geography_graduate.php.

Applications should be received by March 1 to be considered for an assistantship. Further questions about the geography graduate program can be directed to: Dr. Christina Dando, Graduate Program Chair, Department of Geography-Geology, University of Nebraska at Omaha, Omaha, NE 68182-0199. Phone: (402) 554-3134. Email: cdando@unomaha.edu.

FACULTY:
Bradley J.F. Bereitschaft, Ph.D., University of North Carolina at Greensboro, 2011, Associate Professor—urban geography, physical geography, urban environmental, sustainability, urban sprawl and air quality
Rex G. Cammack, Ph.D., University of South Carolina-Columbia, 1995, Associate Professor—geographic information systems, cartography, behavioral, remote sensing, agricultural geography, windmills and grain elevators
Christina E. Dando, Ph.D., University of Wisconsin-Madison, 2000, Professor—human geography, Great Plains, gender and landscape, landscape perception, geographies of the media
Ashlee L.D. Dere, Ph.D., The Pennsylvania State University, 2014, Assistant Professor—The Critical Zone, soils, geomorphology
George F. Engelmann, Ph.D., Columbia, 1978, Professor—vertebrate paleontology, tertiary stratigraphy and sedimentology, biogeography
Karen F. Falconer Al-Hindi, Ph.D., Kentucky, 1993, Professor—feminist geography, gender and work, history and philosophy of geography, research methods
James J. Hayes, Ph.D., Indiana University, Bloomington, 2008, Assistant Professor—remote sensing, landscape ecology, human-environment interaction, impacts of development and land change on ecological systems
Harmon D. Maher, Jr., Ph.D., Wisconsin-Madison, 1984, Professor—structural geology, tectonics, environmental geology, history and philosophy of geology, Svalbard, Norway, southern Appalachians
Petr Pavlinek, Ph.D., University of Kentucky, 1995, Professor—political, economic, development, regional restructuring, political economy, political ecology, transition in Central and Eastern Europe
Michael P. Peterson, Ph.D., SUNY Buffalo, 1982, Professor—computer-assisted cartography, remote sensing, geographic information systems
Robert D. Shuster, Ph.D., Kansas, 1985, Associate Professor—mineralogy, petrology, geochemistry

TECHNICAL STAFF:
Paul Hunt, M.A., University of Nebraska at Omaha, 2009, Coordinator—Cartography and GIS

NEW HAMPSHIRE

DARTMOUTH COLLEGE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1942
DEGREES OFFERED: B.A.
GRANTED 9/14-6/15: 32 Bachelors
MAJORS: 90
CHAIR: Susanne Freidberg
DEPARTMENT ADMINISTRATOR: Kelly Palmer

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Professor Susanne Freidberg, Department of Geography, Dartmouth College, 6017 Fairchild Hall, Hanover, New Hampshire 03755-3571. Telephone (603) 646-3378. Fax (603) 646-1601. E-mail: Geography@Dartmouth.edu. Internet: www.dartmouth.edu/~geog/.

PROGRAMS AND RESEARCH FACILITIES: Geography is housed in the Fairchild Science Center. Departmental facilities are excellent, and include well-equipped Geographic Information Systems Center, cartography and remote sensing laboratories, sedimentology laboratory, and fully-equipped classrooms. Baker Library holds one of the nation's finest collections of atlases and sheet maps, as well as a magnificent array of journals and books for study and research in geography. The Stefansson collection of Arctic materials is especially noteworthy. In addition to fieldwork carried on in the local area, the department sponsors a foreign study program in Prague.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Quarter system. Students academically qualified for admission find that Dartmouth has a generous financial aid plan, and over half of the students receive support from either scholarships or loans. In addition, student research is often funded by Waterhouse, Richter, Mellon, and Rahr grants.

FACULTY:

Jonathan W. Chipman, Ph.D., University of Wisconsin-Madison, 2001—Remote Sensing, GIS, Spatial Analysis & Modeling

James T. Dietrich, Ph.D., University of Oregon, 2014, Neukom Fellow—Remote sensing, fluvial geomorphology, GIS, environmental monitoring

Mona Domosh, Ph.D., Clark University, 1985, Professor—Urban, historical, cultural, gender

Treva Ellison, Ph.D., University of Southern California, 2015, Lecturer—Carceral geographies, queer history, social movements

Coleen A. Fox, Ph.D., University of Oregon, 2000, Senior Lecturer—Southeast Asia, political ecology, water resources

Susanne Freidberg, Ph.D., Berkeley, 1996, Professor—Agro-food, Africa, historical, political ecology, development

Christopher S. Galletti, Ph.D., Arizona State University, 2015, Postdoctoral Fellow—Remote sensing, global change, urban environments, GIS

Jaclyn HatalaMatthes, PhD., University of California, Berkeley, 2013, Assistant Professor—Ecosystem-atmosphere feedbacks, Greenhouse gas fluxes, Ecological dynamics

Katharine H. Kindervater, PhD., University of Minnesota, 2015, Society of Fellows—War/violence, science & technology, political & historical geography

Daniel E. Lawson, Ph.D., University Illinois, 1977, Adjunct Professor—Glacial geomorphology, Quaternary processes

Patricia J. Lopez, Ph.D., University of Washington, 2014, Assistant Professor—Health, development, historical militarism

Frank J. Magilligan, Ph.D., Wisconsin, 1988, Professor—water resources, Fluvial geomorphology, watershed science

Abigail H. Neely, Ph.D., University of Wisconsin-Madison, 2011, Assistant Professor—political ecology, health, development, feminist methods and science studies

Xun Shi, Ph.D, University of Wisconsin-Madison, 2002, Professor—GIS, spatial analysis, health, soil mapping

Christopher Sneddon, Ph.D., University of Minnesota, 2000, Professor—Political ecology, Southeast Asia, transnational rivers, environmental conflicts, sustainable development

Jonathan M. Winter, Ph.D., Massachusetts Institute of Technology, 2009, Assistant Professor—Climate Impacts on Water Resources & Agriculture, Climate Variability and Change

Richard Wright, Ph.D., Indiana, 1985, Professor—Race, immigration, labor markets, housing markets

EMERITI FACULTY:

Laura E. Conkey, Ph.D., Arizona, 1982, Associate Professor—Dendrochronology, biogeography, climatology, field methods, feminism & science

David T. Lindgren, Ph.D., Boston, 1969, Professor—urban, Russian, political

Vincent H. Malmstrom, Ph.D., Michigan, 1954, Professor Emeritus—regional, cultural, historical, Europe, Latin America, climatology

PLYMOUTH STATE UNIVERSITY

THE GEOGRAPHY PROGRAM WITHIN THE SOCIAL SCIENCE DEPARTMENT
DATE FOUNDED: 1975
DEGREES OFFERED: B.S. in Geography; B.S. in Environmental Planning; B.A. in Tourism Management and Policy
GRANTED 9/1/15-8/31/16: 17 Bachelors
MAJORS: 61
HEAD: Dr. Patrick May
DEPARTMENT ADMINISTRATIVE ASSISTANT: Kathryn T. Melanson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Patrick May, Department of Social Science, Plymouth State University, 17 High Street, Plymouth, New Hampshire 03264. Telephone (603) 535-2501. Fax (603) 535-2351.
E-Mail: pmay@plymouth.edu Internet: http://www.plymouth.edu/

PROGRAMS AND RESEARCH FACILITIES: Two hours north of Boston off Interstate 93, Plymouth State University is located in the Lakes Region of New Hampshire among the foothills of the White Mountains. A beautiful valley setting at the confluence of the Baker and Pemigewasset Rivers makes Plymouth a natural destination for mountain climbing, water sports, hiking and skiing. These are popular leisure activities for the 3,500 undergraduate and 1,000 graduate students at the university.

The program also offers three degrees: BS in Geography; BS in Environmental Planning; and BA in Tourism Management and Policy. Each major integrates core courses in cultural geography, physical geography, and geographic techniques, while complimenting curriculum from other fields. Each programs encourages (GE) or requires (GE and TMP) a student internship of 3-9 credits with community and regional planning agencies, the travel and tourism industry, and GIS firms. These programs can also be complimented with a Certificate in GIS or a new interdisciplinary Minor in Sustainability.

Upper division classes rarely exceed 20 students. Through a comprehensive advising system, the geography faculty assume a personal interest in each of the students, supervise directed undergraduate research projects, and work closely with majors in more informal environments.

The Maynard Weston Dow Geographic Information Systems Lab focuses on undergraduate instruction using ArcGIS. A site license for ArcGIS allows students to work anywhere on campus. The department supports the activities of the Institute for New Hampshire Studies and the Canadian Studies Center. An emeritus faculty, Maynard Weston Dow, is the creator of *Geographers on Film*, a record of the formative years of the discipline's modern intellectual development.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University employs a semester system for fall and spring and optional four-week January Terms and two Summer Sessions. Admissions deadlines are April 1 for Fall and

December for Spring. In addition to growing amounts of financial aid available for students, a $1,000+ scholarship, The John Ozog Award, is presented annually to a deserving sophomore or junior who has shown academic excellence and participated in the PSU Geo Club. The Okrant Family Scholarship is also awarded to an outstanding student in Tourism Management & Policy.

FACULTY:

Adam W. Keul Ph.D., Florida State 2011, Assistant Professor—tourism geography, political economy and ecology, cultural geography, coastal studies

Patrick May, Ph.D., University of Maryland, 1999, Associate Professor and Coordinator of Geography— cultural geography, geographic education, urban geography, Africa

Kurt Schroeder, Ph.D., Pennsylvania State, 1988, Professor—military geography, GIS, Europe

Steve Whitman, M.S.,AICP, University of Massachusetts, 1998, Contract Faculty—environmental planning, community resilience, permaculture design

EMERITUS FACULTY:

Bryon D. Middlekauff, Ph.D., Michigan State, 1987, Professor—geomorphology, biogeography, remote sensing, Australia, New Zealand, South Pacific

Mark J. Okrant, Ed.D., Oklahoma State, 1975, Professor—tourism, community planning, population, Alaska and Canada

UNIVERSITY OF NEW HAMPSHIRE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1968
DEGREES OFFERED: B.A.
GRANTED 9/1/14-8/31/15: 14 Bachelors
MAJORS: 42
CHAIR: Mary Stampone
DEPARTMENT ADMINISTRATIVE ASST: Ginny Bannon

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Mary Stampone, Chair, Department of Geography, University of New Hampshire, 102 Huddleston Hall, 73 Main Street, Durham, New Hampshire 03824-2541.
Telephone (603) 862-1719. Fax (603) 862-4362.
E-mail: mary.stampone@unh.edu.
Internet: http://www.unh.edu/geography/

PROGRAMS AND RESEARCH FACILITIES:
The department offers an undergraduate program exclusively. The program provides students a solid foundation in geography that enables them to pursue a variety of careers or enter graduate school. Students are taught primarily in small classes, allowing opportunity for close contact with faculty. Emphasis is placed on individual work, particularly in upper division courses. Students are encouraged to confer frequently with faculty regarding courses, research, internships, and career opportunities.

To earn a bachelor of arts in geography, students must complete ten geography courses—five core courses in world regional geography, human geography, physical geography, and geographic information systems; four courses in one of three areas of concentrations; plus one elective. Geography majors must choose a concentration in human geography, environmental geography, or geotechniques. In addition to the core courses, classes are offered in urban geography, political geography, economic geography, weather and climate, landforms, natural hazards, field methods, remote sensing, and other areas. Regional courses are offered on New England, United States and Canada, Latin America, the Middle East, and Japan.

Faculty are currently engaged in research projects about globalization in the Middle East, immigration in New England, climate change in New England, Chinese capital and labor in global production networks, and fisheries management.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission to the Geography program and for financial aid should be directed to the Admissions Office, Grant House, University of New Hampshire, Durham, New Hampshire. College Entrance Examination Board Scholastic Test scores required.

FACULTY:

Jennifer F. Brewer, Ph.D., Clark, 2007, Associate Professor—human-environment interactions, political ecology, common property institutions, environmental governance, fisheries, adaptation to environmental change

Alasdair D. Drysdale, Ph.D., Michigan, 1977, Professor, Associate Dean, College of Liberal Arts—political, human, population and development, Middle East, Japan

Blake Gumprecht, Ph.D., Oklahoma, 2000, Associate Professor and Chair—urban, cultural, historical, North America, New England

Tu Lan, Ph.D., North Carolina, 2014, Assistant Professor—economic geography, global production networks, transnational migration and entrepreneurship, critical theory, China, Italy

Maingi Solomon, PhD., West Virginia University, 2015, Lecturer—human-environment interactions, political economy of agrarian systems, environmental conflict in Africa

Mary D. Stampone, Ph.D., Delaware, 2009, Associate Professor and New Hampshire State Climatologist—climate, climate monitoring and modeling, cryosphere

Russell Congalton, Ph.D., Virginia Polytechnic, 1984, Professor, Department of Natural Resources and the Environment—remote sensing, GIS, spatial data analysis, natural resources

EMERITI FACULTY:
Robert L.A. Adams; Ph.D., Clark

NEW JERSEY

ROWAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENT
DATE FOUNDED: 1970
DEGREES OFFERED: 5 Baccalaureate degree programs (See below)
GRANTED 9/1/15 – 8/31/16: 58 Bachelors
MAJORS: 207
CHAIR: John Hasse
DEPARTMENT ADMINISTRATIVE ASST: Laura Ruthig

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. John Hasse, Department of Geography and Environment, Robinson Hall, 201 Mullica Hill Rd., Rowan University, Glassboro, New Jersey 08028.
Telephone (856) 256-4812. Fax (856) 256-4670
E-mail: hasse@rowan.edu. Internet: www.rowan.edu/geography

PROGRAMS AND RESEARCH FACILITIES:
The Department offers a baccalaureate degree programs, four minors and four concentrations. The programs include a BA and minor in Geography, a BA and minor in Environmental Studies, a BS and minor in Planning, a BS and Minor in GIS and a BA in Integrated Studies in Geography and Environment. The concentrations include: Geoscience, variety of programs related to geography and the environment including five Environmental Science, Applied Geographic Knowledge and Skills (GeoEducation), Geographic Inquiries into Global Issues and a certificate in cartography and GIS. All of these programs integrate theory and practice, blending both academic and applied facets of geography, environment, planning, and geospatial technologies.

In support of its teaching, research and outreach, the Department houses the Geospatial Research Laboratory (GeoLab) which includes three state of the art computer labs in which students learn to use the latest, high level GIS software (a site license for the full ESRI package) using state-of-the-art hardware platforms and peripherals including large format high resolution plotters and scanners as well as survey quality global positioning system (GPS) receivers. This equipment is used by faculty for research and outreach projects. Students have full access to these labs in which they can pursue class projects and research, often working closely with faculty members.

Our Department also works closely with the College of Education to ensure that our dual major program meets the requirements and scheduling needs of education majors. Upon graduation departmental majors pursue a variety of options including continuing their education at the graduate level, teaching elementary or secondary school, working in environmental firms, as planners or as GIS specialists in various agencies, environmental protection departments, engineering firms, software development firms and in many other areas.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Rowan University is on a semester plan. The department offers all major courses in rotation during day and evening time periods, thus providing students flexibility in completing our program. We also offer a limited selection of lower and upper division courses during the summer term. Admission requirements include high school diploma or GED equivalency, and either SAT or ACT scores. Financial aid programs include loans, grants, scholarships, and employment.

GEOGRAPHY & ENVIRONMENT FACULTY:
Zachary Christman, Ph.D., Clark University, 2010, Assistant Professor — landscape change, GIS, remote sensing, vulnerability, health
Patrick Crumrine, Ph.D., University of Kentucky, 2003, Associate Professor — aquatic ecology, community ecology, conservation biology
John Hasse, Ph.D., Rutgers University, 2001, Professor — cultural, land use, urban, environmental science, GIS
Jordan Howell, Ph.D., Michigan State University, 2013, Assistant Professor — waste, Hawaii, North America, technology, environmental policy
Jennifer Kitson, Ph.D., Arizona State University, 2015. Assistant Professor — urban, cultural, sensory and aesthetic experience, non-representational theory, sustainable urbanism
Charles McGlynn, Ph.D., Rutgers University, 2011, Instructor — water resources, population, Asia, American and Russian studies

EMERITI FACULTY:
Edward F. Behm, M.A., Bowling Green, 1971, Assistant Professor — cultural, population, land use, Europe
Jerry N. Lint, M.Ed., Penn State, 1963, Professor — physical, climatology, Latin America
Richard A. Scott, Ph.D., Syracuse, 1982, Professor — quantitative methods, urban, computer cartography, GIS
Charles A. Stansfield, Jr., Ph.D., Pittsburgh, 1965, Professor — cultural landscapes, tourism and recreation, U.S. and Canada, British Isles
Chester E. Zimolzak, M.S., Wisconsin, 1964, Associate Professor — cartography, transportation, manufacturing, Eastern Europe
Denyse Lemaire, Ph.D., Free University of Brussels, 1992, Professor — glaciology, geology, environmental science

RUTGERS UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1949
GRADUATE PROGRAM FOUNDED: 1956
DEGREES OFFERED: B.A., M.A., M.S., M.Phil., Ph.D.
DEGREES GRANTED 9/1/14-8/31/15: 23 Bachelors, 1 Masters, 10 Ph.D.
STUDENTS IN RESIDENCE: 50 Majors, 2 Masters, 36 Ph.D.
CHAIR: Robin Leichenko
GRADUATE DIRECTOR: Laura Schneider
DEPARTMENT ADMINISTRATIVE ASST: Cleo Bartos

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Undergraduate: Office of Undergraduate Admissions, Rutgers, The State University of New Jersey, 65 Davidson Road, Room 202, Piscataway, New Jersey 08854-8097. Telephone (732) 445-4636. Graduate: Graduate Program in Geography, Department of Geography, Rutgers, The State University of New Jersey, 54 Joyce Kilmer Avenue, Piscataway, New Jersey 08854-8045.Telephone (848) 445-4103. Fax (732) 445-0006. E-mail: cleo.bartos@rutgers.edu. Internet: geography.rutgers.edu.

PROGRAMS AND RESEARCH FACILITIES: The graduate program in Geography at Rutgers offers rigorous interdisciplinary training in areas that reflect a diverse set of empirical questions and theoretical approaches. Much of the research conducted by program faculty falls broadly within an environment and society tradition, but other specializations are encouraged. Specific strengths of the program include: *1) environmental geography* – political ecology; human dimensions of global environmental change; human responses to environmental hazards; institutional and cross-cultural aspects of resource management involving forestry, fisheries, wildlife conservation, mining and agriculture; environmental justice; public health and risk communication; *2) urban/economic geography and social theory* – globalization; uneven development; contemporary urban development, revitalization and gentrification; diverse economies; grassroots politics; citizenship; democratic theory and practice; housing, residential segregation, and community control of land use; gender; race; nationalism; *3) physical geography* – climatology and climate change; snow-cover dynamics; cryosphere; hydrology; land use and land cover change; invasive species; coastal geomorphology; and *4) geospatial information science* – remote sensing; geographic information science; spatial statistical analysis; cartography.

The university's location in the New York metropolitan region, its proximity to the diverse physical and social environments of the mid-Atlantic and Appalachian regions, and its ties to many state, national, and international organizations combine to provide compelling geographical research opportunities. The program houses the Office of the State Climatologist, and maintains close ties with a number of interdisciplinary units across the university including the Center for Urban Policy Research, the Institute of Marine and Coastal Sciences, the Center for Historical Analysis, the Center for Cultural Analysis, Centers for African, Latin American, Latino and Hispanic Caribbean,

South Asian and European Studies, and the Grant F. Walton Center for Remote Sensing and Spatial Analysis. Certificate Programs are available in Geomatics, Human Dimensions of Global Change, and Quaternary Studies.

The Department of Geography has several laboratories equipped for instruction and graduate research. The Center for Remote Sensing and Spatial Analysis and the Edward J. Bloustein School of Planning and Public Policy also contain excellent facilities for remote sensing and geographic information systems and are accessible to students through participating geography graduate faculty.

GRADUATE PROGRAM ADMISSION REQUIREMENTS AND FINANCIAL AID:
The program offers four-year funding packages to a limited number of qualified applicants consisting of a mixture of fellowships and teaching assistantships. All application materials must be received by January 15 for admission the following academic year.

FACULTY (members of core department and graduate program):
D. Asher Ghertner, Ph.D., California-Berkeley, 2010, Associate Professor—urban informality and governance, the political economy of displacement, political ecology, governmentality and rule, ethnography, Indian politics
Robin Leichenko, Ph.D., Pennsylvania State, 1997, Professor—economic geography, climate change vulnerability, human dimensions of global environmental change
Asa Rennermalm, Ph.D., Princeton, 2007, Associate Professor—physical geography, hydrology, climatology, Arctic region, Greenland ice sheet
David A. Robinson, Ph.D., Columbia, 1984, Professor and N.J. State Climatologist—climatology, cryosphere, regional climates, physical geography
Kevon Rhiney, Ph.D., University of the West Indies, 2010, Assistant Professor—agri-food systems and rural livelihoods, climate change and adaptation, Caribbean region, tourism development, governance and governmentality, participatory urban planning,
Laura C. Schneider, Ph.D., Clark, 2004, Associate Professor—land change science, biogeography, remote sensing, GIS, and Latin America
Richard Schroeder, Ph.D., California-Berkeley, 1993, Professor—uneven development, political ecology, conservation, Africa, wildlife, mining, forestry, gender, race, nationalism
Kevin St. Martin, Ph.D., Clark, 1999, Associate Professor—economic geography, diverse economies, political ecology, community and commons, critical cartographies, GIS

GRADUATE FACULTY (members of graduate program only):
Gail M. Ashley, Ph.D., British Columbia, 1977, Professor—quaternary, sedimentology, glacial geomorphology, environmental planning
James DeFilippis, Ph.D., Rutgers, 2000, Associate Professor—community development, housing policy, immigration, labor
Michael R. Greenberg, Ph.D., Columbia, 1969, Professor—environmental health and risk analysis, nuclear waste management
Heidi Hausermann, Ph.D., Arizona, 2010, Assistant Professor—agrarian change, political ecology, land-use/land-cover change
H. Briavel Holcomb, Ph.D., Colorado, 1972, Professor—urban redevelopment, inequalities, tourism, cyberspace
David M. Hughes, Ph.D., California-Berkeley, 1999, Professor—environmental anthropology, landscape, extractive industries, Africa, Caribbean
Robert W. Lake, Ph.D., Chicago, 1981, Professor—urban and political geography, environmental politics, planning and social theory
Richard G. Lathrop, Ph.D., Wisconsin-Madison, 1988, Professor—remote sensing, geographic information systems, landscape ecology
Melanie McDermott, Ph.D., California-Berkeley, 2000, Visiting Scholar—human ecology, political ecology, community forestry, climate change
Pamela McElwee, Ph.D., Yale, 2003, Associate Professor—biodiversity, conservation, climate change, environmental change, political ecology
Kathe Newman, Ph.D., City University of New York (CUNY), 2001, Associate Professor—urban politics, urban revitalization, gentrification
Karl F. Nordstrom, Ph.D., Rutgers, 1975, Professor—coastal geomorphology and management, environmental restoration
Karen M. O'Neill, Ph.D., California-Los Angeles, 1998, Associate Professor—environmental policy, water, state building, experts, organizations
Frank J. Popper, Ph.D., Harvard, 1972, Professor—land use, environmental and regional policy, natural resources managementEdward Ramsamy, Ph.D., Rutgers, 2001, Associate Professor—development, social theory, race, culture and identity, Southern Africa
Thomas Rudel, Ph.D., Yale, 1977, Distinguished Professor—land use change, sustainable development, environmental sociology, Latin America
Mi Shih, PhD., Rutgers, 2010, Assistant Professor—land development, international urbanization, social protests and citizenship in China
David Tulloch, Ph.D., Wisconsin-Madison, 1997, Associate Professor—geo-spatial technologies; environmental and land-use planning
Lyna Wiggins, Ph.D., California-Berkeley, 1981, Associate Professor—GIS, planning methods, computer applications in planning
Ming Xu, Ph.D., California-Berkeley, 2000, Associate Professor—ecosystem ecology, remote sensing, modeling

AFFILIATED FACULTY AND STAFF:
Michael Siegel, M.L.S., Rutgers, 1983, Cartographer

EMERITUS FACULTY:
Robert M. Hordon
Bonnie McCay
J. Kenneth Mitchell
Joanna Regulska
Peter O. Wacker

WILLIAM PATERSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND URBAN STUDIES
DATE FOUNDED: Re-established in 2005
DEGREES OFFERED: B.A.
CHAIR: Monica Nyamwange
DEPARTMENT ADMINISTRATIVE ASST: Mrs. Mayra Soto

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Monica Nyamwange, Department of Geography and Urban Studies, William Paterson University, 300 Pompton Road, Raubinger Hall, Room 425, Wayne, New Jersey 07470-2103.
Telephone (973) 720-2520. Fax (973) 720-3793.
E-mail: nyamwangem@wpunj.edu.
Internet: http://www.wpunj.edu/cohss/departments/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Urban Studies offers a B.A. in Geography with a concentration in Geographic Information Systems. Additionally, it

offers a B.A. in Geography and also minors in Geography and Urban Studies. Our geography program seeks to provide students with necessary skills in analyzing and interpreting various social, economic, political and environmental issues at local, national and global levels.

Our geography program focuses on four major themes: (1) global human and environmental issues; (2) global population and cultural issues; (3) geographic information systems; and (4) global cultural and population issues. Majors can also participate in an Honors Program and other concentrations/minors within the College. The Department assists our majors in their search for internship opportunities by providing them with information, and possibly even contacts, but students are also encouraged to look for possible sponsors.

Geography students have access to well-equipped facilities, including a modern GIS and computer mapping lab, equipped with networked personal computers, SUN workstations, and high-speed plotters and digitizers. Geographic and cartographic software includes IDRISI, MapInfo, MapViewer, Surfer, and ARC/INFO.

The department sponsors the Gamma Theta Upsilon, the International Geographical Honor Society.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: William Paterson University is on a semester plan. Admission requirements are available from: Director of Admissions, Office of Admissions, William Paterson University, Morrison Hall, Wayne, New Jersey 07470 (http://www.wpunj.edu/admissions/). Financial Aid information may be obtained from the Director of Financial Aid, Financial Aid Office, Morrison Hall (http://www.wpunj.edu/financial-aid/).

FACULTY:

Ben Liu, Ph.D., University of California, Riverside 1998, Associate Professor—geographic information systems, spatial analysis, remote sensing, economic geography, Asia

Monica Nyamwange, Ph.D., Rutgers University, 1988, Professor and Chair—environment and humans, cultural and population issues, Africa

Thomas Y. Owusu, Ph.D., University of Toronto, 1996, Professor—urban geography, economic geography, North America, Africa

NEW MEXICO

UNIVERSITY OF NEW MEXICO

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES
DATE FOUNDED: 1961
GRADUATE PROGRAM FOUNDED: 1970
DEGREES OFFERED: B.A., B.S., M.S.
GRANTED 9/1/134-8/31/15: 11 Bachelors, 5 Masters
STUDENTS IN RESIDENCE: 66 Majors, 24 Masters
CHAIR: K. Maria D. Lane

FOR FURTHER INFORMATION WRITE TO: Department of Geography & Environmental Studies, Bandelier West Room 224, MSC01-1110, 1 University of New Mexico, Albuquerque, New Mexico 87131-0001. Telephone (505) 277-5041. Fax (505) 277-3614. E-mail: geography@unm.edu. Internet: http://geography.unm.edu/

PROGRAMS AND RESEARCH FACILITIES: The geography department at UMN offers a B.A., B.S., and M.S. in geography. During the past several years the University of New Mexico has invested substantially in the department as evidenced by the addition of eight new faculty members. This reinvigorated department is now one of the most vibrant at UNM. Our award-winning faculty teaches engaging classes to undergraduate and graduate students studying GIScience, spatial analysis, legal geography, environmental policy and management, historical geography, and cartography, among other topics. We engage both graduate and undergraduate students in high-impact research here in the Southwest and throughout the world, with a particular focus on Latin America and the Atlantic World. The department recently updated its computer lab for GIS, geovisualization and remote sensing and also maintains a checkout facility for physical geography field equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The major in geography requires 38-43 credit hours of lower and upper division coursework. Introduction to Physical Geography, Human Geography, and Introduction to Maps and Geospatial Information are required of all majors. In addition, the student must enroll in courses from topical groups in Geographic Information Science and Human-Environment Geography.

Graduate: The University operates on the semester system. Both thesis and non-thesis plans are offered. Seminars on History & Methods in Geography and Approaches to Geographic Research are required. Candidates who select the thesis plan must complete additional graduate-credit courses and six thesis hours for a total of 30 credits, while non-thesis candidates must complete additional courses and a Master's Project for a total of 33 credits. Candidates under the thesis plan will be examined orally on their theses. Candidates under the non-thesis plan will be tested with both oral and written examinations. Admission to the graduate program requires the applicant to make formal application to the Office of Graduate Studies, submitting a letter of intent, resume, GRE scores, and three letters of academic recommendation. The letter of intent is typically 2-3 pages in length, explaining the applicant's background, interest in the program, research areas in which the applicant would like to work, and professional or career plans. Applications are due February 1, and decisions are made by March 15, along with funding offers. The department has 6 TA positions, and additional financial aid is typically available through faculty research grants.

FACULTY:

Melinda Harm Benson, J.D., University of Idaho College of Law, 1998, Associate Professor—environment & natural resource management, legal geography, social/ecological systems

John N Carr, Ph.D., University of Washington, 2007; J.D., University of Texas, 1993, Associate Professor—urban geography, legal geography, theories of globalization

Chris S. Duvall, Ph.D., University of Wisconsin Madison, 2006, Associate Professor—human-environment geography, biogeography, cultural ecology

Scott M. Freundschuh, Ph.D., State University of New York at Buffalo, 1992, Professor—spatial cognition, cartography and geovisualization, geographic information systems and science

Constantine Hadjilambrinos, Ph.D., University of Delaware, 1993, Associate Professor—environmental policy, energy resources, natural resource policy, environmental studies

K. Maria D. Lane, Ph.D., University of Texas, 2006, Associate Professor—environmental knowledge, historical geography, Southwest U.S., geography of science

Yan Lin, PhD., Texas State University, 2014, Assistant Professor—Geographic Information Science and public health

Caitlin L. Lippitt, Ph.D., UC Santa Barbara and San Diego State University, 2013, Assistant Professor—biogeography, remote sensing of vegetation, fire ecology

Christopher D. Lippitt, PhD., UC Santa Barbara and San Diego State University, 2012, Assistant Professor—remote sensing,

geographic information science, time-sensitive geographic information

Kim Seidler, M.S., University of New Mexico, Lecturer—urban planning, land use management

EMERITUS FACULTY:

Elinore M. Barrett, Ph.D., University of California Berkeley, 1970, Professor Emeritus—cultural-historical, Latin America

Olen Paul Matthews, Ph.D., University of Washington, 1980; J.D., University of Idaho College of Law, 1975, Professor—environmental management, public lands, water resources, water law

Stanley A. Morain, Ph.D., University of Kansas, 1970, Professor Emeritus—biogeography, remote sensing

Jerry L. Williams, Ph.D., University of Oregon, 1977, Associate Professor Emeritus—urban, land use planning, Southwest

ADJUNCT FACULTY:

Karl Benedict, Ph.D., University of New Mexico, 2004—geospatial data infrastructure, applied GIS, geodatabases, data fusion, interoperability

Shawn Penman, Ph.D., University of New Mexico, 2002—GIS, emergency management, fire mapping, interactive web mapping

Cody Wiley, M.S. University of New Mexico, 2007—biogeography, human-environment geography

Daniel Arreola, PhD. 1980 University of California, Los Angeles—cultural geography, US-Mexico borderlands

NEW YORK

BINGHAMTON UNIVERSITY, STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1945
GRADUATE PROGRAM FOUNDED: 1966
DEGREES OFFERED: B.A., M.A.
GRANTED 9/1/15-8/31/16: 29 Bachelors, 16 Masters
STUDENTS IN RESIDENCE: 108 Majors, 40 Masters
CHAIR: Eugene Tettey-Fio
DEPARTMENT SECRETARY: Rita Carr

FOR FURTHER INFORMATION WRITE TO: Graduate Admissions, Binghamton University, P.O. Box 6000 Binghamton, New York 13902-6000. Telephone (607) 777-2151.
Internet: www.binghamton.edu/grad-school. Geography Department (607) 777-2755. Fax (607) 777-6456.
Internet: www.geography.binghamton.edu for placements and other information. Graduate Program Director: Dr. John W. Frazier frazier@binghamton.edu. Mailing address: Dr. John Frazier, Department of Geography, P.O. Box 6000, Binghamton, NY 13902-6000

PROGRAMS AND RESEARCH FACILITIES:
The M.A. degree in Geography may be earned by following one of five tracks (a non-thesis option is available in all tracks):

Track 1: General Geography-This program provides disciplinary foundation along classical liberal arts lines that can lead to interdisciplinary work in areas such as racial/ethnic geographies, conservation, economic development, and international studies.

Track 2: Cartography and Geographical Information Systems-This program educates students as geographical spatial analysts, with emphasis on cartography, remote sensing, and geographic information systems. Among the essential components of the program are theory, research methods, and advanced statistics. The objective of this track is career preparation in the specified area. To fulfill this goal, practical experience obtained from internships and field research is integrated into the formal curriculum. This track also provides the option of pursuing the Ph.D. degree at many institutions.

Track 3: Environmental and Resource Management-This program educates students in physical environmental systems, with particular emphasis on the integration of the environmental and institutional aspects of planning. Among the essential components of this concentration are geographic techniques, environmental concerns, community involvement, and practical experience through internship programs. As with Track 2, graduates from this program might work for planning agencies or consulting firm, as well as pursue an advanced degree.

Track 4: Urban Planning and Applied Geography -This program encompasses urban analysis and planning, as well as retail geography, site selection and market analysis, with emphasis on the integration of the institutional, environmental and urban-economic aspects of both public and private planning. Essential components of the program are geographic techniques, urban development, retail geography, community involvement, GIS applications, seminars in urban planning, and practical experience through internship programs. As with Track 2, graduates from this program might work for corporations or agencies, or pursue an advanced degree.

Track 5: MA in Urban-Environmental Sustainability-This program emphasizes the importance of the socio-political-cultural environments of various groups. Theories of sustainability science and applications are stressed.

A list of employment of recent students is available on our website. Departmental facilities include Geographic Information System (GIS), remote sensing/air photo, and physical geography labs. The GIS laboratory consists of 60 networked microcomputers and 19 GPS receivers. Digitizers, scanners, and plotters are also available. The Department also has a map library, classrooms, and research library within our custom renovated, state-of-the-art building. The Department founded, and provides national leadership in, two conferences, *Race/Ethnicity and Place,* and *The Applied Geography Conferences*.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: For information on admissions and financial aid, contact the Office of Admissions, PO Box 6000, Binghamton, NY 13902 (607-777-2171).

A number of options are available to students that major in geography. A "general" major is provided within a liberal arts context. Also, more specialized majors and minors are available in the areas of computer applications in human-environmental analysis, environmental and resource management, urban/regional planning, urban economic/retailing and American urban perspectives. Six courses are required for a minor. Ten courses are required for the major.

FIVE YEAR BA/MASTER'S PROGRAM: The program is designed for exceptional Binghamton University students who wish to complete both the BA and MA degrees in five years. Students in the program receive a BA at the end of the 4th year and an MA at the end of the program (year 5). The requirements for completion of the combined BA/MA degree are identical to those for completion of two separate degrees, however, because 16 credits of coursework taken for the master's degree (500 level courses) are taken while studying for the undergraduate degree, students are able to complete the course

requirements for the BA in four years and the additional course requirements for the MA degree in one additional year.

Graduate: Admission requirement: Bachelor's degree, or its equivalent, and a reasonable background in geography. The department may require up to five courses of undergraduate work without credit to make up undergraduate deficiencies. Graduate assistantships are offered. Teaching and research assistantships are available to qualified candidates. Scholarships to cover tuition are also awarded. Apply on-line at: www2.binghamton.edu/grad-school/.

FACULTY:

Mark A. Blumler, Ph.D., UC Berkeley, 1992, Associate Professor, Director of Graduate Studies—biogeography, conservation, early agriculture, environmental history

Chengbin Deng, Ph.D., University of Wisconsin-Milwaukee, 2013, Assistant Professor—remote sensing, GIS, cartography

John W. Frazier, Ph.D., Kent State, 1976, Professor and SUNY Distinguished Professor (also, Director of GIS Core Facility)—urban and racial/ethnic geographies, applied geography, applications of Geographic Information Systems

Tim Frazier, Ph.D., Pennsylvania State University, Associate Professor—human response to hazards, flooding, hurricanes

Milton Harvey, Ph.D., University of Durham, England, 1966, Research Professor—regional analysis, behavioral geography, methodology

Louisa Holmes, Ph.D., University of Southern California, 2013 Assistant Professor—Medical Geography, Health Research

Norah F. Henry, Ph.D., Kent State, 1976, Associate Professor and Chair—medical, social geography, Botswana Project Director, Puerto Rico Project Director

Shin-Yi Hsu, Ph.D., UCLA, 1967, Professor Emeritus—cartography, remote sensing and GIS, East Asia

Naomi Lazarus, Ph. D., University of Connecticut, 2015, Visiting Assistant Professor—natural hazards, resource management

Burrell E. Montz, Ph.D., University of Colorado, 1980, Professor Emerita—natural hazards, resource management/planning

Jay Newberry, Ph.D., Michigan State University, 2011, Assistant Professor—urban, race and ethnicity, immigration

Mark E. Reisinger, Ph.D., Indiana University, 2001, Associate Professor and Undergraduate Director—economic, urban planning, population and globalization

Eugene Tettey-Fio, Ph.D., Kent State, 1996, Associate Professor—GIS, retail geography, urban and racial/ethnic geographies

Nicolay P Timofeeff, Ph.D., Columbia University, 1967, Associate Professor Emeritus—physical geography, quantitative geography, computer graphics

Qiusheng Wu, Ph.D., University of Cincinnati, 2015, Assistant Professor—geotechnologies, physical environment

Wan Yu, Ph. D., Arizona State University, 2015, Assistant Professor—Asian Migration, Qualitative Methods

ASSOCIATES:

Kevin Heard, MA Binghamton, 2002, Associate Director of GIS Core Facility—GIS

Brendan McGovern, MA Binghamton 2015, Professional Staff—Human Geography, Cultural Geography

Lucius S. Willis, MA Binghamton, 1982, Professional Staff—Computer Cartography, Geographic Information Systems

PART-TIME FACULTY:

Frank Evangelisti, BA, SUNY- Buffalo, Environmental Design, APA, Chief Planner Broome County, New York, Adjunct Lecturer—Urban and Regional Planning

Erin Heard, MA Binghamton, 2003, Adjunct Lecturer—Physical Geography

Bruce Oldfield, MA Binghamton 1988, Adjunct Lecturer—Weather and Climate

Mary Beth Willis, MA, Binghamton, 1983, Adjunct Lecturer—Cultural Geography

Jennifer Yonkoski, MA, Binghamton, 2003, Senior Transportation Planner, Binghamton Metropolitan Transportation Study, Adjunct Lecturer—Urban Planning

CITY UNIVERSITY OF NEW YORK (CUNY), LEHMAN COLLEGE

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOSPATIAL SCIENCES (EEGS)

DATE FOUNDED: 1931 (originally called the Department of Geology and Geography at Lehman College, which was then "Hunter College in the Bronx")

DEGREES OFFERED: B.A. Geography; B.A. Earth Science; B.S. Environmental Science; M.S. Geographic Information Science (MS-GISc); Bachelor's/Master's Accelerated Degree Program in GISc.

CERTIFICATES OFFERED: Certificate in GISc (undergrad); Advanced Certificate in GISc (graduate level); Certificate in Earth Science (for educators).

DEGREES GRANTED 9/1/14 – 8/31/15: 3 B.A.; 5 B.S.; 13 MS-GISc; 4 certificates.

STUDENTS IN RESIDENCE: 58 undergraduate majors; 42 graduate students; 8 certificate students.

CHAIR: Yuri Gorokhovich (Chair); Juliana Maantay (Vice Chair, and Program Director for Geography/GISc Programs and Graduate Studies).

PROGRAM ADMINISTRATIVE ASSISTANT: Ms. Gail Markbreit

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Earth, Environmental, and Geospatial Sciences, Lehman College, CUNY, 250 Bedford Park Blvd. West, Bronx, NY 10468. Tel: 718 960-8660; Fax: 718 960-8584;
E-mail: Juliana.maantay@lehman.cuny.edu
Website: http://www.lehman.edu/academics/eggs/ Current catalogues can be accessed at http://lehman.smartcatalogiq.com/2015-2017/Undergraduate-Bulletin (undergrad);
and http://www.lehman.edu/graduate-bulletin/ (graduate).

PROGRAMS AND RESEARCH FACILITIES: The Earth, Environmental, and Geospatial Sciences (EEGS) Department offers three majors, three certificate programs, and one master's degree program, as well as several minors. There is also the opportunity for students to enroll in an Accelerated Bachelor's/Master's degree. EEGS faculty have expertise and research interests in a wide variety of disciplines, including urban environmental geography; medical geography; demography; population health; geospatial analysis; natural hazards and risk assessment; water resources; Geographic Information Science (GISc); remote sensing; climate change; sustainability science; ecology; and conservation, and there are research opportunities within and outside the department for students to work in these areas. We have a vibrant internship program for both undergraduates and graduate students, and our location in New York City affords many opportunities for internships as well as full-time positions upon graduation. The Lehman GISc Program is a partner in the CUNY CREST Institute and a founding member of NOAA-CREST (National Oceanic and Atmospheric Administration's Cooperative Remote Sensing Science and Technology). NOAA-CREST faculty and students at Lehman are involved in research projects pertaining to the NOAA sciences, and are active in publishing and presenting their work.

B.A. - Major in Geography, with a concentration in GISc (28 credits). The requirements for the Geography major are designed to maximize flexibility based on the student's interests. There are only four required courses (GEH 101 Introduction to Geography; GEP 204, Basic Mapping Science: GEP 470 or GEH 490 Internship in Geography or Honors in Geography; and one regional geography course). The remaining 15 credits are to be taken in Geography electives, to be selected in consultation with the Geography advisor, according to the student's career goals. Students can also major in Geography to achieve New York State Certification to teach Social Studies, grades K-12.

B.S. – Interdisciplinary Major in Environmental Science (46 credits). The core of the interdisciplinary undergraduate program in Environmental Science is a sequence of basic and advanced science courses from four participating science departments. Students select a specialization area in Ecology, Urban Environmental Management, Environmental Geology, or Environmental Analysis. The Environmental Science Program offers courses to prepare students (1) for environmental science careers, and to become active proponents for their communities in the scientific and policy processes surrounding environmental issues; (2) to meet the environmental science employment demands of local, state, and federal governmental agencies, private consulting, and industry; and (3) to pursue advanced degrees in environmental/physical sciences. The Environmental Science major includes concentrations in Geospatial Analysis and Environmental Modeling.

B.A. - Major in Earth Science (30-credits). This program is recommended for teacher education students, and consists of 26 credits in required courses, plus one four credit Earth Science elective.

M.S. - Geographic Information Science (MS-GISc) (40 credits). The MS-GISc at Lehman College is the first program of its kind within the CUNY system and in the New York City region. The program has two tracks: the Professional Experience and Applied Research (PEAR) option, which seeks to prepare students for careers in GISc and the spatial sciences; and the Traditional Master's Degree option, which is appropriate for students intending to continue on to doctoral studies or assume positions in research institutes. Students may concentrate in one of three areas: Environmental and Health Spatial Sciences; Geospatial Technology; or Urban Sustainability. All concentrations have a strong commitment to community and civic service, emphasizing full engagement with solving real-world problems, while promoting ethical uses of GISc technologies. Our objective is to create a learning environment that is socially conscious, environmentally aware, and focused on equity, while also developing and using the best, most innovative technical and methodological approaches. The curriculum of the MS-GISc program requires 40 credits of coursework, comprised of three key elements: 4 core courses (14 credits); 5-6 electives (18 credits); and an 8-credit capstone research experience, with options for either a traditional Master's Thesis, or a combination of an applied research project and professional experience through an internship, (PEAR option, which satisfies the requirements for a Professional Science Masters – PSM - degree). Most classes are offered in the evenings or online to accommodate graduate students who have daytime commitments, and over 20 different GISc courses are offered on a regular basis. Please see http://www.lehman.cuny.edu/academics/eggs/MS_GISc.php for further information on the MS-GISc degree. The MS-GISc Program has an External Advisory Board with representation of GISc professionals from the GISc industry, private sector consulting firms, not-for-profit organizations, academic research institutes, and local, state, and federal governmental agencies. The Board provides insights and guidance to the curriculum, the internship experience, career opportunities, and research directions.

Professional Science Master's Program. The MS-GISc Program at Lehman has been recognized as a Professional Science Master's (PSM) by the National PSM Association (NPSMA). The NPSMA describes PSM programs as follows: "The Professional Science Master's (PSM) is an innovative, new graduate degree designed to allow students to pursue advanced training in science or mathematics, while simultaneously developing workplace skills highly valued by employers," (from http://www.sciencemasters.com/). Completion of the PEAR Option of the MS-GISc fulfills the requirements for the PSM, and students are awarded the PSM Certificate from the NPSMA upon completion of their MS-GISc degree.

Bachelor's/Master's Accelerated Degree Program: Students pursuing the B.S. in Environmental Science or a B.A. in Earth Science or Geography, who have completed at least one GISc course at the undergraduate level and received a B+ or better, with an overall GPA of 3.0, may be able to satisfy up to 12 open elective credits of their B.S./B.A. degree taking graduate-level coursework in the MS-GISc program. Students who choose to continue on in the Master's degree program upon graduation will be able to transfer the 12 credits of graduate coursework taken while an undergraduate into the M.S. program. This allows the student to potentially complete both the Bachelor's and the Master's degrees within five years of full-time study. By completing the Bachelor's requirements during the first four years, students are assured of the Bachelor's degree if, for any reason, they do not complete the fifth year for the Master's.

Certificate in Geographic Information Science (17 credits). The certificate is available at the undergraduate level, and consists of a 17-credit sequence of courses. The courses are credit-bearing, and students must be admitted to Lehman College as matriculated in either a degree program or in the GISc Certificate program in order to be awarded the Certificate. Courses are usually offered in the evenings, and some electives are offered on-line. Required courses for the undergraduate GISc Certificate are GEP 204, GEP 205, GEP 350, GEH 490, and one 3 or 4 credit GISc elective

Advanced Certificate in GISc (17-20 credits). The Advanced Certificate is available at the graduate level, and consists of a minimum of 17 credits. The courses are credit-bearing, and students must be admitted to Lehman College as matriculated in either a graduate degree program or in the GISc Certificate program in order to be awarded the Advanced Certificate. Required courses for the Advanced GISc Certificate are GEP 605, GEP 690, and three GISc elective courses (3-4 credits each). If students have no prior GISc coursework or experience, it is recommended to begin with GEP 505 (which is a pre-requisite for GEP 605).

Certificate in Earth Science (30 credits) is structured to provide a strong foundation in Earth Science content. The program is intended for certified teachers of other science areas who plan to obtain a second certification in Earth Science as well as holders B.A. or B.S. degrees who seek a foundation in Earth science before applying to a Masters of Education program.

The GISc laboratory facilities at Lehman College include a state-of-the-art teaching lab with 25 workstations, a 20-station mobile GISc lab for ancillary classroom use, and a separate research lab (the Urban GISc Lab), along with a full-time College Laboratory Technician to aid in maintenance of the facilities and to provide technical assistance to faculty and students. All computers are equipped with a wide variety of GISc, remote sensing, modeling, geostatistical, cartographic, and graphic design software, and the GISc Lab server maintains an extensive and up to date collection of data bases. Printing capability includes color laser printers as well as a large-format plotter and scanner. There are also fully-equipped Earth Science and Environmental Science laboratories.

Ph.D. Program: The department participates in the Earth and Environmental Sciences Ph.D. program at the CUNY Graduate Center, offering specializations in Geography and Environmental and Geological Sciences. For further information about the PhD program

in EES, contact Dr. Cindi Katz, EES Executive Officer, at (212) 817-8241 or email: ckatz@gc.cuny.edu

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major programs in the EEGS Dept. is the same as that for admission to the City University of New York. Application info is available at http://www2.cuny.edu/admissions/undergraduate/apply/
Undergraduate majors are eligible to earn credit through internal and external internship programs. Exceptional undergraduate students are encouraged to apply for the Accelerated Bachelor's/Master's program which allows both degrees to be earned in a total of five years of full-time study. Information about financial aid programs is available at http://www.lehman.cuny.edu/financial-aid/

Applications to the MS-GISc Program and Advanced Certificate in GISc are accepted through the "Apply Yourself" online process, which can be accessed at https://app.applyyourself.com/?id=lehmangrad. In order to be admitted to the GISc graduate programs, applicants are required to have earned a Bachelor's degree with minimum 3.0 GPA, and provide official transcripts of all post-secondary school coursework, at least 2 letters of recommendation, a CV, and a short essay describing their interest in GISc and the MS-GISc Program at Lehman. GREs are not required. The deadline for Fall term admissions is April 15th of the prior Spring term. The deadline for Spring term admissions is October 1st of the prior Fall term. Questions about the admissions process should be directed towards the Graduate Admissions Office, at 718 960-8777 or email: graduate.admissions@lehman.cuny.edu.

FACULTY:
The EEGS faculty (listed below) consists of full-time professors, most of whom, in addition to having advanced degrees in the field and academic experience in teaching, have also held positions in various governmental agencies, not-for-profit organizations, and private sector consulting firms, outside of academia. The GISc program faculty also includes several affiliated professors from allied CUNY programs, and long-term adjunct instructors who are drawn from the professional world of GISc practice, lending an additional "real-world" experiential aspect to the program.

Stefan Becker, Professor; Dr. rer. Nat., Justus-Liebig-University Giessen — Climatology, severe weather, environmental pollution, environmental modeling
Yuri Gorokhovich, Associate Professor; Ph.D., CUNY Graduate Center — Geology, natural hazards and disasters, spatial modeling with GIS, geoarchaeology
Irene Leung, Professor; Ph.D., University of California at Berkeley — Mineralogy, petrology, diamonds, meteorites & planetary science
Juliana Maantay, Professor; Ph.D., Rutgers University — Urban environmental analysis, medical geography, Geographic Information Science, environmental justice, sustainable community-based development, participatory geographic information systems, exposure and vulnerability assessment
Elia Machado, Assistant Professor; Ph.D., Clark University — GIS and spatial analysis, global environmental change and vulnerability assessment, remote sensing
Hari Pant, Assistant Professor; Ph.D., Dalhousie University — Biogeochemical cycles, sediment/water quality, ecological indicators, global change.
Gautam Sen, Professor; Ph.D., University of Texas at Dallas — Petrology, earth materials
Heather Sloan, Associate Professor; Ph.D., University of Paris — Marine geophysics, seafloor morphology, plate kinematics, Earth Science Education

AFFILIATED FACULTY AND LONG-TERM ADJUNCTS:
Jennifer Brisbane, Adjunct Assistant Professor; Ph.D., CUNY Graduate Center — Historical GIS, environmental justice, spatial analysis, programming for GIS, mobile GIS application development
Gretchen Culp, Adjunct Assistant Professor; Ph.D., CUNY Graduate Center — Cartography, color vision confusion, visualization of public health data, and urban geography
Glen Johnson, Associate Professor, CUNY School of Public Health; Ph.D., Penn State University — Geo-spatial aspects of health, environmental and community-level social determinants of health outcomes, quantitative methods
Andrew Maroko, Associate Professor, CUNY School of Public Health; Ph.D., CUNY Graduate Center — GIS and geo-spatial statistics with applications to environmental health and environmental justice, integration of GIS, remote sensing, spatial analysis and modeling, impacts of exposure, built- and social-environments on public health.
Holly Porter-Morgan, Adjunct Associate Professor; Ph.D., CUNY Graduate Center — Biogeography, ecology, spatial analysis, conservation, GIS, biogeographic and computational models

EMERITUS FACULTY:
William Bosworth, Ph.D., Princeton University — Demographic analysis, urban social issues.
Frederick Shaw, Ph.D., Harvard University — Oceanography, marine paleontology, stratigraphy.

COLGATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DEGREES OFFERED: B.S.
CHAIR: Peter Klepeis
DEPARTMENT ADMINISTRATIVE ASSISTANT: Tracy Piatti

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Peter Klepeis, Department of Geography, Colgate University, 13 Oak Drive, Hamilton, NY 13346. Telephone (315) 228-7534. E-mail pklepeis@colgate.edu

PROGRAMS AND RESEARCH FACILITIES: The discipline of geography bridges perspectives in the social and natural sciences. In addition to deepening knowledge of biophysical and social change processes in their own right, diverse methodological approaches uncover the relationships between humans and natural and social environments. Students are exposed to the full spectrum of disciplinary subfields, methods, and geographical techniques. They use integrative explanatory frameworks to grapple with critical areas of inquiry: the geopolitics of conflict, climate science, bio-geographies of endangered mitigation, international development, environment management, among them. In exploring these themes, geography students move beyond passive knowledge consumption and towards the production of knowledge themselves, applying their skills and perspectives through collaborative work with faculty, fellow students and members of the wider community.

The department offers two majors, one in Geography and the second in Environmental Geography. The Environmental Geography major is jointly administered by the Geography Department and Colgate's Environmental Studies Program and requires students to take a core set of environmental studies courses in addition to Geography courses focused on environmental processes and impacts.

FACULTY:
Teo Ballvé, B.A., Colorado College, M.A., The New School University, Ph.D., University of California Berkeley, Assistant Professor of Geography and Peace & Conflict Studies

Adam W. Burnett, B.S., Aquinas College, M.A., Ohio University, Ph.D., Michigan State University, William R. Kenan Jr. Professor of Geography

Jessica K. Graybill, B.S., B.A., University of Arizona, M.S., Yale University, Ph.D., University of Washington, Seattle, Associate Professor of Geography

Maureen Hays-Mitchell, B.A., Middlebury College, M.A., Columbia University, Ph.D., Syracuse University, Professor of Geography

Peter J. Klepeis, A.B., Colgate University, M.A., Ph.D., Clark University, Professor of Geography; Chair of the Department of Geography

Ellen Percy Kraly, B.A., Bucknell University, M.S., Johns Hopkins University, Ph.D., Fordham University, William R. Kenan Jr. Professor of Geography and Environmental Studies; Director of the Environmental Studies Program

Michael M. Loranty, B.S., West Virginia Wesleyan College, Ph.D., SUNY Buffalo, Assistant Professor of Geography

William B. Meyer, B.A., Williams College, Ph.D., Clark University, Associate Professor of Geography

Daniel B. Monk, B.A., M.A., Columbia University, Ph.D., Princeton University, George R. and Myra T. Cooley Professor of Peace and Conflict Studies and Professor of Geography

Peter R. Scull, B.A., University of New Hampshire, M.A., Michigan State University, Ph.D., San Diego State University, Associate Professor of Geography

Daisaku Yamamoto, B.A., University of Colorado, Boulder, M.A., Simon Fraser University, Ph.D., University of Minnesota, Associate Professor of Geography and Urban Studies

GRADUATE CENTER OF THE CITY UNIVERSITY OF NEW YORK

GEOGRAPHY PROGRAM IN EARTH AND ENVIRONMENTAL SCIENCES
DATE FOUNDED: 2003
GRADUATE PROGRAM FOUNDED: 2003
DEGREES OFFERED: Ph.D.
GRANTED 2014-2015: 8 Ph.D.
STUDENTS IN RESIDENCE: 50 Ph.D.
EXECUTIVE OFFICER (CHAIR): Cindi Katz

FOR FURTHER INFORMATION CONTACT: The Executive Officer, Earth and Environmental Sciences Program, The Graduate Center, City University of New York, 365 Fifth Avenue, New York, NY. 10016; Telephone 212-817-8240. Students interested in the program should consult the website: http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Earth-and-Environmental-Sciences

PROGRAMS AND RESEARCH FACILITIES: The Geography Program at the Graduate Center of the City University of New York is an exciting specialization within the Doctoral Program in Earth and Environmental Sciences, which was founded in 1985. The program provides an opportunity to pursue doctoral studies in geography in one of the world's largest and most dynamic metropolitan locations with a diverse interdisciplinary faculty based either full-time at the Graduate Center or holding joint appointments with the undergraduate and master's programs offered throughout the CUNY system, including Brooklyn, City, Hunter, John Jay, Lehman, and Queens Colleges, and the College of Staten Island. Geography faculty and students participate in a variety of interdisciplinary fields of study including American Studies, Women's and Gender Studies, Urban Studies, Urban Design and Planning, and Public Health. Students are permitted to combine courses from the Geography Specialization with those in the Geosciences more generally. They are also encouraged to take courses in related disciplines – particularly those such as Anthropology, Environmental Psychology, Sociology, and Urban Studies – which house faculty affiliated with Geography at the Graduate Center. Our faculty and students are closely connected to various centers and institutes at the Graduate Center, including the Center for Place, Culture, Politics; the Center for Human Environments; the Center for the Humanities; the Academic Research Collaborative; the Institute for Research on the African Diaspora in the Americas and Caribbean; the Center for Research on Women and Society; and the Committee on Globalization and Social Change; as well as CUNY-wide initiatives such as the Science and Resilience Institute at Jamaica Bay, and the CUNY Institute for Sustainable Cities, among others.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system.
***Admission requirements*:** Interests in the field coincident with those of the Program faculty. Application requires transcripts, two letters of recommendation, personal statement detailing research interests, and GRE results. Potential applicants are welcome to contact Executive Officer, Professor Cindi Katz (212-817-8240 or ckatz@gc.cuny.edu); Chair of Admissions Committee, Professor Monica Varsanyi (212-237-8232 or mvarsanyi@jjay.cuny.edu). Application deadline: December 15th.

***Financial Aid*:** All admitted students will receive financial aid ranging from 5-year Tuition Awards to 5-year Graduate Center Fellowships, which provide students with tuition and $25,000 each year for the first five years of study. The fellowship consists of a $23,000 stipend in the Fall and Spring semesters, a $2,000 summer research stipend, a graduate assistantship, a tuition award, and eligibility for low-cost individual or family NYSHIP health insurance. A variety of teaching and research fellowships are also available. Additional support is available through a number of competitive grants and fellowships for travel, research, and dissertation support. For more information please see: http://www.gc.cuny.edu/Prospective-Current-Students/Current-Students/Financial-Assistance/Fellowships-and-Grants#sthash.mT7IlPqx.dpuf.

FACULTY:

Terence Agbeyegbe, Professor; Ph.D., University of Essex, UK — Energy and environmental economics

Sean C. Ahearn, Professor; Ph.D., University of Wisconsin, Madison — Remote sensing, environmental assessment

Jochen Albrecht, Associate Professor; Ph.D., University of Vechta, Germany — Geographic Information Science

Thomas Angotti, Professor; Ph.D., Rutgers University — Urban planning and community development, environmental justice

Stefan Becker, Professor, Dr. rer. nat., Justus-Liebig University - Giessen — Regional impacts of climate change, severe weather, and atmospheric pollution

James J. Biles, Associate Professor; Ph.D., Michigan State University — Development theories and policies, globalization and development, economic geography, Latin American Studies, work and labor

Rebecca Boger, Assistant Professor; College of William and Mary VIMS — GIS, Water Resources, Science Education; Brooklyn College, 718 951 5000 x 2159; rboger@brooklyn.cuny.edu

Jean Carmalt, Assistant Professor, Ph.D., University of Washington & J.D. Cornell University School of Law — Law and Geography, international law, economic and social rights, political ecology of disasters

Allan Frei, Professor; Ph.D., Rutgers University — Climatology and global climate change

Vinay Gidwani, Adjunct Professor; Ph.D., University of California, Berkeley — Post-socialism and justice; labor geographies; Marxism; identity politics and subaltern social movements; geographies of work; agroecological transformations; social theory; India

Ruth Wilson Gilmore, Professor; Ph.D., Rutgers University — Race and gender, labor and social movements, prison, uneven development, politics and culture, California, the U.S., the African Diaspora

Hongmian Gong, Professor; Ph.D., University of Georgia — Urban geography, Geographic Information Systems

Yuri Gorokhovich, Associate Professor; Ph.D. City University of New York Graduate Center — Geology, natural hazards and disasters, spatial modeling with GIS, geoarchaeology

Kenneth Gould, Professor; Ph.D., Northwestern University — Environmental sociology, ecotourism and development, ecodisasters

Jean Grassman, Associate Professor; Ph.D., University of California, Berkeley — Occupational and environmental health

Roger A. Hart, Professor; Ph.D., Clark University — Children's environments, child friendly cities, participatory action research

David Harvey, Distinguished Professor; Ph.D., St. Johns College, Cambridge, England — Geography and social theory, urban political economy and urbanization

Mohamed Ibrahim, Associate Professor; Ph.D., University of Alberta, Canada — Drought management and North African ecosystems

Peter Kabachnik, Associate Professor; Ph.D., UCLA — Geographies of displacement; conceptualizations of place, space and mobility; racialization, social exclusion of Gypsies and Travelers; critical geopolitics; Abkhazian identity construction

Cindi Katz, Executive Officer and Professor; Ph.D. Clark University — Production and reproduction of space, place and nature, critical social theory, qualitative methodology and the politics of research, social reproduction and everyday life, children and the environment, political ecology

Carsten Kessler, Adjunct Assistant Professor; Ph.D., University of Munster, Germany — Link data and semantic web, volunteered geographic information, emergency management, geospatial semantics

Yehuda L. Klein, Professor; Ph.D., University of California, Berkeley — Environmental economics and policy, environmental justice, urban sustainability

Tammy L. Lewis, Professor; Ph.D., University of California, Davis — Sustainability; transnational social movements; globalization; service learning

Setha M. Low, Professor; Ph.D., University of California, Berkeley — Anthropology of space and place; cultural aspects of design; housing and community development, gated communities and 'landscapes of fear'; ecology and nature; urban anthropology; qualitative methods; historic/cultural preservation

Juliana Maantay, Professor; Ph.D., Rutgers University — Environmental geography, Geographic Information Systems

Elia Machado, Assistant Professor; Ph.D., Clark University — GIS and spatial analysis, global environmental change and vulnerability assessment, remote sensing

Peter J. Marcotullio, Professor; Ph.D., Columbia University — urbanization and global change, urban environmental planning, urban Asia Pacific, urban transitions

Andrew Maroko, Assistant Professor; Ph.D., CUNY Graduate Center — GIS and geo-spatial statistics with applications to environmental health and environmental justice; integration of GIS, remote sensing, spatial analysis and modeling; impacts of exposure, built- and social-environments on public health

Michael Menser, Assistant Professor, Ph.D., CUNY Graduate Center — Environmental philosophy, democratic theory, global ethics, social philosophy, participatory democracy and ecological sustainability/resilience

Ines A. Miyares, Professor; Ph.D., Arizona State University — Population, social geography

Wenge Ni-Meister, Professor; Ph.D., Boston University — Remote sensing, biogeography

Rupal Oza, Associate Professor; Ph.D., Rutgers University — Feminist geographical theory, globalization and gender, gender and nationalism, globalization and labor migration, religious nationalism, regional specialization: South Asia and United States

Marianna E. Pavlovskaya, Professor; Ph.D., Clark University — Urban, gender, Russia

Jonathan R. Peters, Professor; Ph.D., CUNY Graduate Center — Regional planning; road and mass transit financing; corporate and public sector performance metrics; capital costs and performance management

Deborah Popper, Professor; Ph.D., Rutgers University — Rural studies, regional geography of the American West, The Buffalo Commons

Laxmi Ramasubramanian, Associate Professor; Ph.D. University of Wisconsin, Milwaukee — Urban planning, participatory GIS, built environmental-human behavior interactions

Susan Saegert, Professor; *Ph.D. University of Michigan* — Housing, community development, gender and environment, social capital

John E. Seley, Professor; Ph.D., University of Pennsylvania — GIS, urban planning

William D. Solecki, Professor; Ph.D., Rutgers University — Environmental hazards, land use, urban sustainability

Monica W. Varsanyi, Associate Professor, Ph.D., University of California, Los Angeles — Migration and immigration studies, political geography and urban geography

Sharon Zukin, Professor; Ph.D., Columbia University — Consumer society and consumer culture, urban change and gentrification, arts and economic development, ethnic diversity

HOFSTRA UNIVERSITY

DEPARTMENT OF GLOBAL STUDIES AND GEOGRAPHY
DATE FOUNDED: 1935 (Geography), 2008 (Global Studies)
DEGREES OFFERED: B.A., B.S.
GRANTED 9/1/15-8/31/16: 31 Bachelors
MAJORS: 115
CHAIR: Dr. Grant Saff
DEPARTMENT ADMINISTRATIVE ASST: Margaret Sapienza

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Dr. Grant Saff, Chairperson, Department of Global Studies and Geography, 130 Hofstra University, Hempstead, New York 11549-1300. Telephone (516) 463-5826. Fax (516) 463-6968.
Internet: gsgeog@Hofstra.edu.
World Wide Web: http://www.hofstra.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department is situated within the Peter S. Kalikow School of Government, Public Policy and International Affairs which is part of Hofstra's College of Liberal Arts and Sciences. As noted below, we offer a BA in Geography and from 2017 will be offering a BS major with a specialization in GIS (the BS minor begins in Fall 2016). The Department offers a wide selection of Geography courses, balancing offerings in thematic and regional Geography. Particular strengths are GIS, cultural, economic, urban, transportation and South Asia. The Department also offers a very popular semester length study abroad program in Europe, "the European Odyssey" that allows majors or minors to receive up to 15 sh of Global Studies and Geography credits while visiting ten or more European countries. The Department annually awards the Inaba Memorial Scholarship, of approximately $7,000, to a major in the Department in their senior year. Selection is based on a combination of academic merit and financial need. This award is in addition to any other awards or financial aid that the student receives. The Department has an active chapter of GTU and a thriving student club, "Get Global." A fuller description of our activities, offerings and student outcomes can be found here. We provide extensive Geographic Information Systems facilities and

ArcView software is available for use by students and faculty on the Hofstra network and in our Department lab. The University Computing Center provides computing services to all students and faculty. All resident students have direct Internet access from their residence hall rooms and the campus, including our building, is Wi-Fi accessible. Hofstra University, located in Hempstead (Long Island), 25 miles east of Manhattan, is very well placed to take advantage of the wealth of research and educational opportunities provided by the New York metropolitan area. Abundant internship opportunities for majors and minors are available in the New York metropolitan area. The Department is located in Roosevelt Hall near the center of the 240 acre campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Requirements for admission are stated in the Hofstra Catalog. Our Department offers a BA in Geography and a BA in Geography with a specialization in GIS. We have also recently introduced a BS major and minor in Geography, GIS. The latter begins from Fall 2016 while the former, should begin (pending state approval) in 2017. We also offer a BA in Global Studies. Students may dual major in both programs. A B.A. in Geography entails a minimum of 30 semester hours in geography courses. 12 of the s.h. in geography courses must come from 100-level courses. Required courses: GEOG 1 (World Regional Geography), GEOG 2 (Human Geography), GEOG 60 (Introduction to GIS) and GEOG 191 (Seminar in Geographic Methodology) (see our website for detailed course information). We allow up to 9 sh of selected global studies, geology, sustainability and urban ecology courses to count toward the 30 s.h. required for the major in geography. A minor in Geography consists of the successful completion of 18 semester hours of geography. The B.A. Specialization in Global Studies requires a minimum of 33 semester hours in Global Studies. The detailed requirements and courses are listed on our website. All of our programs offer ample opportunities for internships, directed studies and participation in Hofstra's extensive study abroad programs. Our Department also offers a Pre-Med B.A. in both Geography and Global Studies. It is the goal of Hofstra University – a selective, midsized, private, coed institution – to enroll a freshman and transfer class of students from diverse backgrounds and locations, with varied interests and talents. Admission to Hofstra is selective. Average undergraduate class size is 21 students and the student-faculty ratio is 13 to 1. Hofstra offers a variety of scholarships based on academic performance as well as financial need. Financial assistance from Hofstra is renewable, based on criteria for each particular program. The current average financial aid package for Firsttime Full-time Freshman is $20,500. Admissions requirements, university catalogs, financial aid and program information can be obtained by calling (516) 463-6600 or are available on Hofstra's website.

FACULTY:

Craig Dalton, Ph.D. University of North Carolina, Chapel Hill, 2012, Assistant Professor — GIS, maps and social movements

Zilkia Janer, Ph.D., Duke, 1998, Professor, Global Studies Program — Culture, food culture

Kari B. Jensen, Ph.D., Pennsylvania State University, 2007, Associate Professor — South Asia, political geography and cultural geography

Linda Longmire, Ph.D., CUNY, 1988, Professor, *Global Studies Program* — human rights, child labor, Europe

Jean-Paul Rodrigue, Ph.D., University of Montreal, 1994, Professor — Logistics, Transport and commercial geography, GIS, East and Southeast Asia

Grant Saff, Ph.D., Rutgers University, 1996, Professor — Global Economics, Urban geography, economic geography, Southern Africa

PART-TIME GEOGRAPHY FACULTY:

Hewan Girma, MA, Fordham, 2006, Adjunct Instructor — Africa, development, urban. economic, medical

Nisha Korattyswaroopam, Ph.D, Rutgers University, 2010, Adjunct Assistant Professor — urban geography, South Asia

Ying Qui, Ph.D, Birmingham (UK), 2004, Adjunct Assistant Professor — Asia, economic geography, environment

Timothy Smith, EDD, Rutgers University, 1968, Adjunct Professor — Europe

James Wiley, Ph.D., Rutgers University, 1991, Adjunct Professor — Economic geography, Latin America and the Caribbean

ONONDAGA COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL SCIENCE/PHILOSOPHY
DATE FOUNDED: 1962
DEGREES OFFERED: A.A., A.S.
CHAIR: Arnaud Lambert
DEPARTMENT ADMINISTRATIVE ASST: Cheryl Langdon

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Office of the President, Onondaga Community College, 4585 West Seneca Turnpike, Syracuse, NY 13215; email: occinfo@sunyocc.edu

GEOGRAPHY COURSES: Introduction to Geography, Economic Geography, Geography of the United States, Global Sustainability

ADMISSION REQUIREMENTS AND FINANCIAL AID: Director of Admissions, Onondaga Community College, Syracuse, NY 13215; email: occinfo@sunyocc.edu

GEOGRAPHY FACULTY:

Leonard Pyzynski, M.A., Ball State University, Adjunct Professor of Geography — North America, Europe, Economic Geography

STATE UNIVERSITY OF NEW YORK, BUFFALO STATE

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1965
DEGREES OFFERED: B.A., B.S.
GRANTED 8/31/14-8/31/15: 24 Bachelors
CHAIR: Kelly M. Frothingham
DEPARTMENT ADMINISTRATIVE ASST: Patty Korta

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Kelly M. Frothingham, Department of Geography and Planning, SUNY Buffalo State, 1300 Elmwood Ave., Buffalo, New York 14222-1095. Telephone (716) 878-6216. Fax (716) 878-4009. E-mail: frothikm@buffalostate.edu. Internet: http://geography.buffalostate.edu/.

PROGRAMS AND RESEARCH FACILITIES: The Department offers two undergraduate degrees, a B.A. in Geography and a B.S. in Urban and Regional Planning. The Geography B.A. has four concentrations: Meteorology and Climatology; Watershed and Ecosystems; Economic Geography and Development; and GIS. The Urban and Regional Planning B.S. emphasizes the applied aspects of physical land use planning and planning for sustainable communities. Coursework in GIS is emphasized in both programs and the Department maintains two well-equipped computer labs to support GIS and other computer-intensive courses. Qualified students are provided ample opportunity for internships with local agencies and consulting firms and independent research.

The Department's environmentally-oriented undergraduate programs are supported by collaboration with SUNY Buffalo State's Great Lakes Center (GLC). The GLC maintains a large aquatic research field station on Lake Erie and field work is supported with a fleet of boats for activities, such as water quality sampling. Department faculty members also advise and supervise master's students in the GLC's Great Lakes Ecosystem Science (GLES) programs (M.A. and M.S.). Both GLES programs are interdisciplinary environmental science programs with a required GIS component. The M.A. is a traditional thesis-based program that prepares graduates for advanced research, professional employment, or study at the Ph.D. level. The M.S. is a Professional Science Master's (PSM) program that enhances the environmental science curriculum with coursework in project management and business and technical communication. Students in the M.S. also intern with environmental agencies and graduates of the program are prepared to provide a leadership role as they address a wide range of problems and issues related to the management of resources within the Great Lakes and surrounding watersheds.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester plan. The Department accepts all students admitted to BSC. All financial aid and scholarship assistance is provided at the College level. All applicants should apply to the Admissions Office, SUNY Buffalo State, 1300 Elmwood Ave., Buffalo, NY 14222.

FULL-TIME FACULTY:

Kelly M. Frothingham, Ph.D., University of Illinois, 2001, Professor — physical geography, fluvial geomorphology, watershed planning, stream assessment

Camille A. Holmgren, Ph.D., University of Arizona, 2005, Associate Professor — physical geography, Quaternary paleoecology, paleoclimatology, biogeography, global change

Jason C. Knight, Ph.D., AICP, University at Buffalo, 2013, Assistant Professor — urban and land use planning, housing and real estate, planning methods, urban geography

Wende Mix, Ph.D., University at Buffalo, 1987, Associate Professor — transportation planning, urban geography, GIS

Tao Tang, Ph.D., Wisconsin-Milwaukee, 1997, Professor — GIS, remote sensing, physical and environmental geography

Vida Vanchan, Ph.D., University at Buffalo, 2006, Associate Professor — economic geography, industrial competitiveness, development, international trade, multicultural management and negotiation

Stephen J. Vermette, Ph.D., McMaster, 1988, Professor — meteorology, climatology, air quality, field methods

Veryan G. Vermette, M.S., McMaster, 1986, Lecturer — physical geography, human geography, urban geography, geography of Europe

William F. Wieczorek, Ph.D. University at Buffalo, 1988, Research Professor — health and human services geography, GIS, spatial analysis, research methods

PART-TIME FACULTY:

James R. Bensley, M.U.R.P., AICP, Virginia Polytechnic, 1988, Lecturer — urban planning, land use planning, physical development

Scott Pickard, M.S., SUNY Buffalo State, 1996, Lecturer — environmental science, environmental impact assessment

Mary Rossi, M.S., SUNY Buffalo State, 1998, Lecturer — New York State geography, physical and urban geography

TECHNICAL STAFF:

Mary Perrelli, M.A., University at Buffalo, 1999, GIS Laboratory Manager and Lecturer — GIS, physical and environmental geography

STATE UNIVERSITY OF NEW YORK, COLLEGE AT GENESEO

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1965
DEGREES OFFERED: B.A.
GRANTED 9/1/14-8/31/15: 27 Bachelors
MAJORS: 102
CHAIR: Jennifer Rogalsky
DEPARTMENT SECRETARY: Mary Kuhn

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, State University College at Geneseo, 1 College Circle, Geneseo, New York 14454.
Telephone (585) 245-5238. Fax (585) 245-5180.
Internet: rogalsky@geneseo.edu, or
Admissions Office, State University College at Geneseo, 1 College Circle, Geneseo, New York 14454. Telephone (585) 245-5571.

PROGRAMS AND RESEARCH FACILITIES: The Geography degree program is broad in nature requiring courses in Human Geography, Physical Geography, Regional Geography and Geotechniques. The Environmental Studies and Urban Studies minors are administered by the Geography Department. Study abroad, internships, and active research participation with faculty members are encouraged. Facilities include a state-of-the-art GIS and Physical Geography labs.

Geneseo's Geography Department has maintained a high standard of quality. Approximately 50 percent of graduates go on to graduate programs in geography and are usually awarded research or teaching assistantships. The majority of graduates find employment with local, state, and federal governmental agencies or with private firms.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system.
Freshman applicants must have a high school diploma and should submit SAT or ACT scores. All applicants, including transfer students, are encouraged to contact the Department of Geography, and should apply directly to the Admissions Office, State University College, Geneseo, New York, 14454.

Federal and State financial assistance programs, and scholarships, are available for qualified undergraduate students.

FACULTY:

David Aagesen, Ph.D., U. of Minnesota, 1998, Associate Professor — Latin America, resource management, environmental

Colleen Garrity, Ph.D., Arizona State U., 2007, Assistant Professor — climate, GIS, geovisualization

James Kernan, Ph.D, West Virginia University, 2009, Assistant Professor — physical, biogeography, GIS

Darrell A. Norris, Ph.D., McMaster, 1976, Professor — historical, developing world, Pacific Rim, cultural landscape, political, trade area analysis

David Robertson, Ph.D., U of Oklahoma, 2000, Associate Professor — cultural, historical, environmental, Canada

Jennifer Rogalsky, Ph.D., U of Tennessee, Knoxville, 2006, Associate Professor and chair — urban, developing world, Ghana, poverty

Ren Vasiliev, Ph.D., Syracuse, 1996, Professor — cartography, cultural, United States, statistics

SYRACUSE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1931
GRADUATE PROGRAM FOUNDED: 1926
DEGREES OFFERED: B.A., M.A., and Ph.D.
GRANTED 9/1/14 - 8/31/15: 17 Bachelors, 10 Masters
STUDENTS IN RESIDENCE: 62 Majors, 7 Masters, 17 Ph.D.
NOT IN RESIDENCE: 1 Masters, 7 Ph.D.
CHAIR: Jamie Winders
DEPARTMENT ADMINISTRATIVE ASST: Margie M. Johnson

FOR FURTHER INFORMATION WRITE TO: Chair of Graduate Committee, Department of Geography, 144 Eggers Hall, Syracuse University, Syracuse, New York 13244-1020.
Telephone (315) 443-2605. Fax (315) 443-4227.
E-mail: geography@maxwell.syr.edu.
Internet: www.maxwell.syr.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES:
The Syracuse University Department of Geography is characterized by dynamic scholarship and teaching that builds on almost a century of distinguished achievement. Our location within the nation's top school of public policy, the Maxwell School, ensures that geographers can address both the real-world policy implications and the scholarly meaning of their research. Interdisciplinary links are not limited to the Maxwell School, as both faculty and students draw on the intellectual resources of the College of Arts and Sciences (of which we are also part), the University at large, and the adjacent campus of the SUNY College of Environmental Science and Forestry.

The expertise and research foci of department members span a range of topics in human, environmental, and physical geography, and in geographic information and analysis that are applied in a wide array of regions, places, and landscapes. Recent graduate students have conducted field research in the Caribbean, Central and South America, Europe, Southeast and East Asia, and Southern Africa, as well as across North America.

Prospective students will find opportunities to develop an array of research skills and to study and conduct research with faculty in the following areas:

Culture, Justice, and Urban Space: Syracuse geographers join the study of urban landscapes, politics, and processes to broader struggles for racial and gender equality, social justice, and political transformation. Through projects that range from constructing urban geographies of memory to examining spatial strategies of immigrant inclusion and exclusion, our faculty draw on a variety of methodological and theoretical perspectives, particularly social theory, to interrogate the production of urban spaces and experiences.

Environmental Science and Landscape Dynamics: Physical geographers at Syracuse University focus on spatial and temporal aspects of environmental science, with the aim of clarifying the dynamic processes that shape the earth's landscapes. Faculty conduct research in four broad areas: human and natural disturbance impacts on riparian habitats and forest ecosystems; development of field and analytic techniques for examining recent and Pleistocene environmental change; processes and implications of sediment transport in rivers; and climate – land-surface interactions. Graduate students have use of our Physical Geography Research Laboratory, which is equipped for a variety of soil and sediment analyses, and includes a Sedigraph 5120 for particle size analysis.

Gender, Identity and Citizenship: At Syracuse, geographers study gendered spaces of everyday life as sites of oppression and resistance where identities are made and re-made across the landscape. We examine the gendering of geopolitical relationships that structure human migration, labor practices in the global economy, gender and the city, memory, social justice, historical geography, feminist methodologies, and other critical standpoints from which to study men's and women's places in the world. Central to each of these themes is a re-working of the concept of citizenship.

Geographic Information Technology: Faculty in this focus have a range of research and teaching interests, including cartography, applications and methods in geographic information technologies (i.e., geographic information systems, computer cartography, remote sensing, multimedia), spatial analysis and modeling, hydrological and ecosystem modeling, and participatory geographic information systems. Faculty and graduate students conduct research on a range of key societal and environmental issues, with recent topics including geospatial surveillance technologies; modeling channel migration; and participatory GIS mapping of community concerns. Faculty and students involved with the Syracuse Community Geography Program use GIS and other geospatial technologies in partnership with members of the Central New York community to map and spatially analyze a wide variety of social justice topics. Graduate students train and conduct research in both our *Geographic Information and Analysis Laboratory* and the *Integrated Spatial Analysis Laboratory*, funded by a Major Research Instrumentation grant from NSF.

Globalization and Regional Development: At Syracuse, geographers research the relationship between flows and networks of activity, interaction and power that are producing an increasingly interconnected world, and the historical and geographical contexts within which the lives of people and places are transformed. By focusing on globalization processes, we examine the complex, and often contradictory, mechanisms through which flows of capital, people, information, and knowledge are sped-up, spread-out, and made more intensive. By focusing on development, we pay particular attention to the inequalities created by these flows among groups and in spaces and places that have been historically marginalized or subject to control within national and international systems.

Nature, Society, Sustainability: Nature-society scholarship at Syracuse includes land-use and land-cover change in tropical forests using remotely sensed data, environmental history of western North America, the political ecology of rural livelihoods in Andean South America, and the environmental impacts of the mining industry. Syracuse geographers also study sustainable development, nature conservation and protected areas, forest fire dynamics and management, environmental mapping and its societal impacts, media coverage of environmental issues, and human impacts on climate, vegetation and landform processes.

Political Economy: Syracuse geographers understand political economy to be a social relationship. This social relationship is deeply geographical: our research starts from the understanding that social relations, social struggles, and social justice are all intricately related to the ways that political-economic processes are imbricated in and transformed through spatial relationships. In addition to understanding the relationship between political economy and geography, we seek to understand the relationship between political economy and gender; political economy and labor; political economy and the restructuring of places and regions; and political economy and culture. In all of these, we want to understand how space, place, region, and scale structure and restructure political economic processes, even as the processes restructure space, place, region, and scale.

Within the Maxwell School, the department has links with numerous interdisciplinary programs and centers: International Relations; Social Science; Center for Policy Research; Center for Environmental Policy and Administration; Moynihan Institute of Global Affairs; Institute for

the Study of the Judiciary, Politics and the Media; Program for the Advancement of Research on Conflict and Collaboration; Syracuse Social Movements Initiative; and the South Asia Center. A notable opportunity is the concurrent master's degree in **Geography** and the nationally top-ranked **Public Administration** program. This concurrent degree provides an outstanding training for a public sector career. (58 credit hours are required; information upon request.) Study in our physical geography/environment clusters is supported by courses and research opportunities in Syracuse University's Departments of Civil and Environmental Engineering, Biology, and Earth Sciences and at the neighboring SUNY College of Environmental Science and Forestry. The department is a founding member of the UCGIS, University Consortium for Geographic Information Science.

Faculty and graduate student offices, the department's Preston E. James Library, and the Geographic Information and Analysis Laboratory are in a centrally located building, Eggers Hall, within easy reach of libraries (the collection of over two million volumes has extensive hardcopy and electronic holdings for geographic research), the Physical Geography Laboratory, the Integrated Spatial Analysis Laboratory, and the Cartographic Laboratory, which provides support for teaching and research. The Eggers complex is fully networked for wireless computing and communication and possesses advanced telecommunications technology for global and national communication, exchange, and learning.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: A student may enter the undergraduate geography program once accepted into the College of Arts and Sciences; a major program of study must be chosen by the junior year. The geography major consists of a minimum of 33 credit hours (i.e., eleven courses). Having completed foundation work on human geography, nature-society relations, and physical geography, the student must choose at least six upper-division courses from an array of systematic and regional topics, as well as a course in geographic techniques. A senior-year seminar requirement ensures that the student pursues a particular research topic in some depth and is able to present and justify his or her findings in both oral and written form. Simultaneous participation in the College's honors program is encouraged, and numerous possibilities exist for dual majors. There is also a minor in geography and in Environment and Society. For further information, contact Dr. Jane Read, Undergraduate Director (jaread@maxwell.syr.edu).

GRADUATE: Semester system. *Academic Plan*: the M.A. degree requires 30 credit hours, culminating in either a Master's thesis *or* two Master's papers, and a final oral examination; the choice of degree program will depend on the student's interests and academic objectives. Emphasis is placed on the acquisition of a range of research skills and methods that can be applied in a variety of career contexts and used in doctoral programs. The Ph.D. degree entails an additional 30 credit hours of courses both inside and outside the department, 12 credit hours of dissertation research, the writing of an approved dissertation proposal, the satisfactory completion of a combined written and oral qualifying examination, and finally, the successful completion and oral defense of the doctoral dissertation. Students wishing to enter the Ph.D. program should have a clear idea of dissertation plans to facilitate construction of a doctoral program of study. All applicants are encouraged to correspond with individual faculty regarding their special interest in any aspect of the Syracuse program in geography. *Admission*: The department does not subscribe to specific numerical criteria for evaluations of applications; minimum levels normally acceptable, however, for the undergraduate grade point average are about 3.0 (on a 4.0 basis). Samples of written work may be submitted on a voluntary basis (these cannot be returned) to help the department evaluate applications on an individual basis. Applicants must submit transcripts, three letters of recommendation, a statement of intent, GRE scores on the Verbal, Quantitative, and Analytic Tests, and — if applicable — scores from the TOEFL. Prospective students are strongly recommended to take the GRE and TOEFL exams and to submit application materials as early as possible.

***Financial Aid*:** Graduate Assistantships; University, McNair, and Watson Fellowships, DellPlain Assistantship in Latin American Geography, and various tuition scholarships and other awards are available on a competitive basis. Graduate assistantships include tuition and health care. Applications should be completed by January 5th to ensure full consideration for financial support. For further information, contact Dr. Tom Perreault, Graduate Director (taperrea@maxwell.syr.edu).

FACULTY:

Jacob Bendix, Ph.D., Georgia, 1992, Associate Professor, Adjunct Associate Professor, SUNY-ESF — biogeography, geomorphology, human impacts on vegetation and land forms, media and environmental issues

Peng Gao, Ph.D., University of Buffalo, 2003, Associate Professor — Geographic information systems modeling, human impacts on physical environments, fluvial systems

Matt Huber, Ph.D., Clark University, 2008, Associate Professor — resource geography, historical geography, political economy, energy, industrial ecologies

Natalie Koch, Ph.D., University of Colorado Boulder, 2012, Assistant Professor — political geography, nationalism, geopolitics, post-Soviet Central Asia, Arab Gulf states, higher education, qualitative methods

Susan W.S. Millar, Ph.D., Rutgers, 1995, Associate Professor — physical geography, periglacial geomorphology, microclimatology, Arctic environmental science

Don Mitchell, Ph.D., Rutgers, 1992, Distinguished Professor of Geography — cultural, historical, labor, social theory, Marxist approaches to geography

Mark Monmonier, Ph.D., Pennsylvania State, 1969, Distinguished Professor of Geography — geographic information (technology, policy, and societal role), cartographic communication and map design, history of cartography in the 20th century, environmental mapping.

Anne E. Mosher, Ph.D., Pennsylvania State, 1989, Associate Professor — urban, historical, social geography, interdisciplinary theories of space and place

Thomas A. Perreault, Ph.D., University of Colorado at Boulder, 2000, Professor and Graduate Director — political ecology, environment and development, social movements, Latin America

Jane M. Read, Ph.D., Louisiana State, 1999, Associate Professor and Director of Undergraduate Studies — Geographic information systems, remote sensing, tropical environments, land use and land-cover change, Latin America

Jonnell A. Robinson, Ph.D., University of North Carolina Chapel Hill, 2010, Assistant Professor — Community geography, Geographic Information Systems, participatory GIS, participatory action research, public health geography, qualitative research methods

David J. Robinson, Ph.D., London, 1967, DellPlain Professor of Latin American Geography — Latin American development, colonialism, historical, the Internet

Tod D. Rutherford, Ph.D., University of Wales at Cardiff, 1992, Professor — economic restructuring, labor market change and policy

Farhana Sultana, Ph.D., University of Minnesota, 2007, Associate Professor — environment and development, water resources management, political ecology and natural hazards, feminist theory

John Western, Ph.D., UCLA, 1978, Maxwell Professor of Teaching Excellence — social, cultural, urban, France, Southern Africa

Robert M. Wilson, Ph. D., University of British Columbia, 2003, Associate Professor — Environmental historical geography, western U.S. and Canada, environmental policy

Jamie Winders, Ph.D., University of Kentucky, 2004, Associate Professor and Chair — race/ethnicity, urban/social geography, immigration, gender, U.S. South, qualitative and historical research methods, social theory, social theory

AFFILIATED FACULTY:

Anne Bellows, Ph.D., Geography, Rutgers University, 1999, Professor, Food Studies, Syracuse University — sustainable agriculture, development, food security

Laura-Anne Minkoff-Zern, Ph.D., Geography, University of California, Berkeley, 2012, Assistant Professor, Food Studies, Syracuse University — Race, labor, and immigration in the food system, agricultural politics and policy, sustainability studies, feminist methodologies

Sharon Moran, Ph.D., Geography, Clark University, 2000, Associate Professor, Environmental Studies, SUNY-ESF — environmental policy, nature-society relations, water and wastewater management, environmental issues in post-communist countries

Beverley Mullings, Ph.D., McGill, 1996, Associate Professor, Queen's University, Department of Geography — international political economy, service industry development, gender and economic globalization in the Caribbean

John Stella, Ph.D., Environmental Science, Policy and Management, University of California, Berkeley, 2005, Associate Professor, SUNY-ESF, Department of Forest and Natural Resource Management — riparian ecology, ecosystem restoration, plant physiology, community dynamics

Weissman, Evan, Ph.D., Geography, Syracuse University, 2012, Assistant Professor, Food Studies, Syracuse University — Alternative Food Networks; Urban Agriculture; Political Economy of Agro-Food; Urban Political Ecology

EMERITI FACULTY:

Robert G. Jensen, Ph.D., Washington, 1964, Professor Emeritus — regional development and urban policy in Russia, Russian resource development and East-West trade, Russia and independent states

Donald W. Meinig, Ph.D., Washington, 1953 Professor Emeritus — historical, cultural and social, landscape interpretation, North America

John Mercer, Ph.D., McMaster, 1971, Professor — comparative urbanization, urban housing, Canada

James L. Newman, Ph.D., Minnesota, 1968, Professor Emeritus — population, diet-nutrition, tropical Africa

UNITED STATES MILITARY ACADEMY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL ENGINEERING
DATE FOUNDED: 1802
DEGREES OFFERED: B.S.
GRANTED 08/01/15-08/31/16: 39 Bachelors of Geography
MAJORS: 88 Geographers; 68 Geospatial Information Science; 285 total
CHAIR: Colonel Wiley C. Thompson, Ph.D.
DEPARTMENT ADMINISTRATIVE OFFICER: Ms. Mary Ellen DeLuca Kreder

FOR CATALOG AND FURTHER INFORMATION WRITE TO: COL Andrew Lohman, Geography Program Director, Department of Geography and Environmental Engineering, United States Military Academy, West Point, New York 10996-1695.
Telephone (845) 938-2930. Fax (845) 938-3339.
E-mail: Andrew.Lohman@usma.edu.
Internet: http://www.usma.edu/gene/SitePages/Home.aspx.

PROGRAMS AND RESEARCH FACILITIES: The program is designed to provide a strong background in geography or environmental studies, allowing special emphasis in five major areas: human geography, environmental geography, environmental engineering, environmental science, and geospatial information science. Geography majors take 10 to 12 geography courses in addition to the Academy's 30-course core curriculum (that includes a physical geography course). Furthermore, the Department offers program-specific capstone courses in Environmental Security, Military Geography, and Environmental Engineering Design. An honors program culminating in a research-based thesis is offered for qualified students. The Department offers a variety of summer enrichment programs which provide cadets the opportunity to obtain practical field experience in geography-related themes which can lead to individual research projects during the following academic year. Cadets have interned at federal agencies such as the National Oceanic and Atmospheric Administration, Environmental Protection Agency, Waterways Experiment Station, Air Force Global Weather Center, Cold Regions Research and Engineering Laboratory, Defense Intelligence Agency, Topographic Engineering Center, and National Aeronautics and Space Administration, and have participated in oceanic surveys, coastal hazard studies, desert environmental research, environmental audits of Army installations, and GIS-based studies. Additionally, cadets may participate in cultural immersion trips to locations such as Israel, Uganda, Ethiopia, and others. Cadets and faculty rely on research support from the USMA library, which houses 500,000 volumes and 1,600 periodicals. The Department library, a branch of the USMA library, houses over 1,800 books, theses, atlases, and 21 journals. The Department of Geography and Environmental Engineering maintains the Academy's Geographic Sciences Laboratory, which includes twenty GIS and six photogrammetry workstations along with a new multi-media instructional facility. In addition, fully equipped laboratories support instruction and research in remote sensing/photogrammetry, environmental engineering, geology, geomorphology, and cartography. The Department is dedicated to remaining at the technological forefront in its areas of emphasis. The Department also houses the Center for the Study of Civil-Military Operations and has two faculty members in the Center for the Study of Languages, Culture, and Regional Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission and information concerning nomination for appointment may be obtained by contacting the Director of Admissions, United States Military Academy, West Point, New York, 10996. All students are members of the United States Army and as such receive salaries and pay no tuition for attendance.

FACULTY:

Mark Anders, Ph.D., University of California, Berkeley, 1989, Associate Professor—geology, geomorphology

Joshua Borrell, M.S., University of Montana, 2000, Instructor (Geography)—geology, physical geography

John A. Brockhaus, Ph.D., Idaho, 1986, Professor—GIS, forestry, photogrammetry, remote sensing

Michael A. Butkus, Ph.D., Connecticut, 1997, Professor—environmental engineering

Nicholas Cosmas, M.A., University of Hawaii, Manoa*, 2012, Instructor (Geography)*—political geography, Asia

Philip J. Dacunto, Ph.D., Stanford University, 2013, Associate Professor & Academy Professor—environmental engineering

Ran Du, M.S.E., Johns Hopkins, 2014, Instructor—environmental engineering

Curtis B. Edson, Ph.D., Oregon State, 2011, Assistant Professor—GIS

Marie C. Johnson, Ph.D., Brown, 1990, Professor—geology, ecology, environmental science

Adam J. Kalkstein, Ph.D., Arizona State University, 2008, Associate Professor (Geography)—climatology, physical geography

Mindy Kimball, Ph.D., Arizona State, 2014, Assistant Professor & Academy Professor—environmental science

Darren Kerr, M.S., Oregon State, 2015, Instructor—photogrammetry, physical geography

Richard L. Knox, M.A., Texas, 2013, Assistant Professor (Geography)—geomorphology

Lauren A. Koban, M.S., University of North Carolina, 2014, Instructor—environmental science

Andrew D. Lohman, Ph.D., Illinois, 2009, Associate Professor (Geography), Academy Professor, & Geography Program Director—human geography, political geography, military geography

Jon C. Malinowski, Ph.D., North Carolina-Chapel Hill, 1995, Professor (Geography)—cultural geography, environmental perception, geography of childhood, spatial behavior, Asia

Dave McCarthy, M.S., Akron, 1996, Instructor (Geography)—physical geography

John M. Melkon, II, MPIA, Texas A&M, 2005, Director, Center for the Study of Civil-Military Operations (CSCMO)—civil-military operations

Robert W. Nahabedian, M.S., Georgia Institute of Technology, 2013, Instructor—environmental engineering

Christopher Nixon, M.S., Naval Postgraduate School*, 2012, Instructor (Geography)*—meteorology, physical geography

Christopher E. Oxendine, Ph.D., George Mason, 2013, Assistant Professor—GIS

Joel Radunzel, M.S., Syracuse, 2015, Instructor (Geography)—historical geography, cartography

Mark Read, Ph.D., Penn State, 2014, Deputy Department Head & Assistant Professor (Geography)—environmental geography, physical geography, military geography

Amy Richmond, Ph.D., Boston University, 2005, Associate Professor (Geography)—physical geography, environmental geography, energy, environmental economics

Luis Rios, M.S., Texas A&M, 1995, Assistant Professor (Geography)—physical geography, *atmospheric science, meteorology*

Richard F. Rogers III, M.S., Stanford University, 2014, Instructor—environmental engineering

Gavin D. Schwan, M.S., Texas, 2013, Assistant Professor (Geography)—economic geography, Latin America

Sarah Strazzo, Ph.D., Florida State University, 2015, Assistant Professor (Geography)—meteorology, physical geography

James A. Sturm, M.S., Missouri University of Science & Technology, 2004, Instructor (Geography)—physical geography

Mark A. Smith, Ph.D., Wisconsin-Madison, 2002, Assistant Professor& Academy Professor—environmental engineering, environmental science

Jeffrey A. Starke, Ph.D., Wisconsin-Madison, 2011, Associate Professor & Academy Professor—environmental engineering

Colin M. Tansey, M.S., Naval Postgraduate School, 2009, Assistant Professor (Geography)—physical geography

Wiley C. Thompson, Ph.D., Oregon State, 2008, Department Head & Associate Professor (Geography)—environmental geography, hazards, physical geography, military geography,

Jared Ware, M.Sc, Cranfield University, 2002, Instructor—GIS, remote sensing

Richard L. Wolfel, Ph.D., Indiana, 2001, Associate Professor (Geography)—cultural geography, Europe, Russia, political geography, social geography, quantitative methods

David C. Zgonc, M.S., Carnegie Melon University, 2014, Instructor—environmental engineering

UNIVERSITY AT ALBANY, STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1966
GRADUATE PROGRAM FOUNDED: 1970
DEGREES OFFERED: B.A., M.A., AND M.R.P.
GRANTED 9/1/13-8/31/14: 17 Bachelors, 31 Masters
STUDENTS IN RESIDENCE: 173 Majors, 93 Masters
CHAIR: Catherine T. Lawson
ADMINISTRATIVE MANAGER: Marcia Catrambone
DEPARTMENT SECRETARY: Lisa M. Baker

FOR CATALOG AND FURTHER INFORMATION VISIT: www.albany.edu/gp or contact Department of Geography and Planning, UAlbany-SUNY, Arts & Sciences 218, Albany, New York 12222. Telephone (518) 442-4636. Fax (518) 442-4742.
E-mail: lbaker@albany.edu or geog@albany.edu. Information on all of our programs is available on the website: http//www.albany.edu.

PROGRAMS AND RESEARCH FACILITIES:
The University is located in the historic city of Albany, capital of New York State, and at the heart of the Northeast, with easy access to New York City, Boston and Montreal. The New York Capital Region is an emerging center of high tech development, heritage tourism and cultural activity. Located by the Hudson River, Albany is close to the Catskill, Adirondack, Berkshire and Green Mountains and many wilderness, lake, trail and ski areas. A cooperative agreement gives UAlbany students opportunities for courses and library privileges at Union College, Rensselaer Polytechnic Institute (RPI), and several other area colleges and universities. The Department has close ties with local, regional and state agencies, and numerous undergraduate and graduate internship opportunities are available. Several of the faculty have strong international research programs, notably in China, Russia, Latin America and Africa. The Department is closely associated with the University's Lewis Mumford Center for Comparative Urban and Regional Research, and with its Urban China Research Network.

At the undergraduate level, the Department offers training in human geography (urban, economic development, cultural, population, environmental), physical geography and climatology, and spatial analysis (GIS, remote sensing, spatial statistics, cartography). An undergraduate degree option is also available in Urban Studies and Planning and Globalization Studies. Eligible students can pursue a combined B.A. /M.A. program in geography. Undergraduates can also earn a Certificate in Geographic Information Systems and Spatial Analysis.

The Department's graduate programs provide students with specialized training and preparation for careers in business, government, education, non-profit organizations and international development. The Master of Arts (MA) in Geography is a flexible degree program that accommodates a wide spectrum of coursework and research in such fields as: cultural and political geography; urban and economic geography; migration studies; transportation; physical geography; environmental analysis; climatology; GIS, remote and cartography; and spatial statistics and mathematical modeling. Complementary work in other departments is encouraged. Students in the MA program may select one of two options: the 30-credit thesis track, including completion of a substantial research project; or the 36 credit non-thesis track. In addition, the Department offers a 15-credit Graduate Certificate in GIS and Spatial Analysis, which may be completed separately or within the context of the MA program. The Department also offers a 48-credit Masters in Urban & Regional Planning (MRP), an accredited professional program. Specializations are available in: environmental and land use planning; housing, local

economic development and community planning; and transportation planning. Some students choose to work toward both the MA (geography) and MRP (planning) degrees. Departmental faculty participate in doctoral supervision for students with compatible interests through Ph.D. programs in Information Science, Sociology, and Earth and Atmospheric Sciences.

State of the art instructional and laboratory facilities are available to students. The GIS Lab runs a full complement of GIS, remote sensing, image processing and statistical software. The Remote Sensing and Image Analysis Labs contain workstations, peripheral devices and an extensive collection of air photography and satellite images. The Planning Studio offers dedicated project workspace and facilities for computer-aided design and production of technical reports. The Integrated Undergraduate Physical Geography Laboratory includes a Geochemistry Laboratory fully equipped for analysis of air, water and soil samples, and the Mohawk Climatological Observatory, with a professional Weather-Monitor meteorological station. The University Libraries have extensive holdings in geography and planning, and major collections are also available at the New York State Library.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester system. Admission is generally granted for the fall, spring, and summer sessions. Early, special, and transfer admissions are available. Financial aid includes New York State and federal awards, the Tuition Assistance Program, Regents College Scholarships, and other programs.

Graduate: The University operates on the semester plan, with additional summer sessions. Applications are received all year. Teaching assistantships and fellowships with stipends of at least $4,500 each semester are available through the Department. Research assistantships are commonly available through federal, state, and foundation grants and contracts to faculty members. Current sources include the National Science Foundation, and several New York State agencies. Outstanding opportunities also exist for paid internships with New York State agencies, normally for students who have completed at least one semester of work in the Department. Most assistantships and fellowships, and many paid internships, provide for remission of tuition. Limited financial support during the summer is available on a competitive basis. Students requesting financial aid should submit all application materials, including GRE scores, by March 15 for admission the following fall.

FACULTY:

Carlos Balsas, Ph.D. University of Massachusetts-Assistant Professor—Community Development and Neighborhood Planning, Sustainable Transportation Planning, Urban Revitalization, International Planning

Alexander Buyantuev, Ph.D., Arizona State University, Assistant Professor—Remote Sensing; Landscape Ecology; Urban Ecology, Land Use and Cover Change, Phenology, Sustainability

Ray Bromley, Ph.D., Cambridge University, 1975, AICP, Professor—planning history, metropolitan and regional planning, community development, informal sector, microenterprise, Latin America

Melissa Currie, Ph.D. University of North Carolina, Assistant Professor—Community Planning and Social Justice, Urban open space and the impacts of the built environment on health.

Youqin Huang, Ph.D., University of California, Los Angeles, 2001, Associate Professor—population, gender, housing and labor markets, urban, GIS, China

Shiguo Jiang, Ph.D., The Ohio State University; Assistant Professor—Geographical Information Science and Systems, Remote Sensing Methods and Applications, Spatial Statistics and Environmental Statistics, Land Use and Land Cover Change, Ecological Modeling

Andrei Lapenas, Ph.D., State Hydrological Institute, St. Petersburg, 1986, Associate Professor—physical climatic change, Quaternary paleogeography, soils

Catherine T. Lawson, Ph.D., Portland State University, 1998, Associate Professor—transportation planning, ITS, freight, quantitative methods, regional science, growth management

David A. Lewis, Ph.D., Rutgers University, 2003, Associate Professor—regional planning theories and techniques, brownfields redevelopment, urban and regional economic development

Rui Li, Ph.D., Pennsylvania State University-Assistant Professor—Geographical Information Science, Spatial Cognition Wayfinding and Navigation, and Spatial Learning

James E. Mower, Ph.D., State University of New York at Buffalo, 1988, Associate Professor—GIS, cartography, automated cartography

John S. Pipkin, Ph.D., Northwestern University, 1974, Distinguished Service Professor—urban, urban design, American cultural landscapes, quantitative methods

Joseph A. Sarfoh, Ph.D., University of Cincinnati, 1976, Associate Professor (Primary Appointment in Africana Studies)—regional development, resource management, Africa

ADJUNCT FACULTY:

Alison Bates, MRP UAlbany, SUNY

Elisabeth Egetemeyr, Ph.D. UAlbany SUNY, 2007—Human Geography

Todd M. Fabozzi, MRP, UAlbany-SUNY, 1994—regional planning, GIS, regional growth analysis

Rocco A. Ferraro, MCRP, Ohio State, 1975, AICP—planning, land use, growth management

Glenn Harland MA, UAlbany-SUNY, 1994—physical geography, GIS

Thomas F. Hart Jr., MA SUNY College of Environmental Science & Forestry—Advanced Remote Senising GIS, Applied Land Use and Land cover Mapping, Regional Modeling

Marcia Kees, BA SUNY Owego, New York State Office of Parks Recreation and Historic Preservation—Coordinator of New York State Heritage Area Program

Jacqueline, Ledermann

Sean Maguire, MPA, AICP, UAlbany SUNY 2014—Economic Development Planner and Project Manager

Neusa McWilliams, Ph.D., UC Berkeley 1996—Urban Geography

Christopher J. O'Connor, UAlbany-SUNY, 2002—GIS, Water Resources, Flood Hazards

Jeffrey S. Olson, MA, SUNY-Empire State, 1993—bicycle and pedestrian transportation planning

Kurt Swartz, MA, SUNY College of Environmental Science & Forestry 1982, New York State Department of Environmental Conservation, GIS Section Chief

S. Thyagarajan, MCRP, Ohio State, 1963, AICP—comprehensive planning, site planning, growth management, Site planning, community planning, waterfront planning

UNIVERSITY AT BUFFALO, STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1962
GRADUATE PROGRAM FOUNDED: 1963
DEGREES OFFERED: BA, BA/MA, MA, MS & PhD in Geography; BS and MS in Geographic Information Science; BA & MA in International Trade
GRANTED 9/1/14-8/31/15: Geography: 14 Bachelors, 13 MA, 17 MS, 3 PhD; International Trade: 32 Bachelors
STUDENTS: 85 Majors, 65 Masters, 44 Doctoral
CHAIR: Sharmistha Bagchi-Sen
DEPARTMENT ADMINISTRATOR: Jeanine McKeown

FOR FURTHER INFORMATION:
Please visit our website: www.geography.buffalo.edu
Graduate applicants: please apply online. The online application should be accessed directly from the department webpage. Address written inquiries to Director of Graduate Studies, Department of Geography, University at Buffalo, 105 Wilkeson Quadrangle, Buffalo, NY 14261-0055. Telephone (716) 645-2722. Fax (716) 645-2329.
E-mail: geog@buffalo.edu.

Graduates pursue professional careers in government or business, as well as leading teaching and research institutions. Students are encouraged to find internships in business, industry, and/or government agencies. Some examples of potential fields of employment are software development, GIS and mapping technology, remote sensing, population analysis, land use, natural resource and environmental management, statistical analysis, and economic development.

AREAS OF SPECIALIZATION: The general areas of concentration supported by the Department are Geographic Information Science, Earth Systems Science, Urban and Regional Analysis, International Business and World Trade, and Health Geography.

Geographic Information Science (BS and MS degrees have been newly established) is concerned with the acquisition, manipulation, simulation, and visualization of spatial and remotely sensed data. The use of digital spatial data sets to analyze as well as illustrate spatial patterns has intensified interest in a broad range of disciplines. Academic study of GIS may also focus upon improving the algorithms and data structures used.

Earth Systems Science examines modern environmental problems through quantitative analysis and modeling grounded in basic and applied science. The goal of the program is to provide specialized training in watershed processes, terrestrial ecology, hydrology, natural resources, and land management at a variety of scales. Students learn marketable skills for careers in environmental sciences and related areas.

Urban and Regional Analysis offers an array of courses on contemporary urban and regional systems. Faculty members have developed strong relationships with other departments at UB, including Economics, Planning, Sociology, Industrial Engineering, Political Science, and Law.

International Trade degrees (BA and MA), newly established in the Department of Geography, prepare students to critically assess the process of globalization operating in the world today, including the growth of multinationals and foreign direct investment, international trade, the internationalization of capital and financial markets, new international divisions of labor, and the rapid development of technology and innovations. These changes are resulting in global restructuring and new patterns of uneven development. Critical social, economic, and environmental challenges face corporate decision-makers, government policy makers, and non-governmental organizations. The BA and MA degrees are designed to prepare undergraduates and masters students for a professional and/or academic career in this challenging and exciting world of international business and trade. You will be exposed to a wide-range of perspectives on the global economy, and will develop important skills in policy and data analysis at various geographic scales.

Geography of Health, in addition to the four areas of geography described above, is emerging as a new faculty and graduate student research focus.

GRADUATE DEGREE PROGRAMS: The Department of Geography offers graduate training leading to the Geography degrees BA/MA, Master of Arts, Professional Master of Arts (portfolio option), Master of Science, Master of Arts in International Trade, and Doctor of Philosophy.

A master's degree may be designed as a terminal degree (including a portfolio option), or may be used as the basis for more advanced graduate study. Pursuit of the portfolio option in Earth Systems Science or Geographic Information Science would enable a student to complete an MA program in as little as one year.

In cooperation with the School of Management, the Department offers a joint MA-MBA degree in International Business and World Trade. Students seeking admission to this option must be accepted by both academic units and complete 78 hours of graduate study. In addition, the Department offers a 5-year BA/MA degree in International Economic and Business Geographies that prepares students for professional or academic career in international business and related fields. Additionally, we now offer a Master of Science degree intended for students specializing in applications of analytical techniques to the field of geography.

The Departmental PhD program admits superior students who desire in-depth research and technical training as a prelude to careers in education, government, or industry. Programs are designed on an individual basis and students are required to demonstrate acceptable levels of skill in computer applications, programming, and statistics.

ADMISSIONS & FINANCIAL AID: University at Buffalo (UB), The State University of New York, a member of the prestigious Association of American Universities, is the largest, most comprehensive, public undergraduate and graduate university in New York State, enrolling over 28,000 students. UB operates on a semester system.

Undergraduate admissions:
For application information please visit the Undergraduate Admissions website: http://admissions.buffalo.edu/apply/index.php or write to the Office of Admissions, 12 Capen Hall, University at Buffalo, Buffalo, NY 14260-1660 or email: ub-admissions@buffalo.edu . Telephone (888) UB-ADMIT or (716) 645-6900.

Undergraduate Financial Aid:
Please see http://admissions.buffalo.edu/costs/index.php or write to Student Response Center, 232 Capen Hall, University at Buffalo, Buffalo, New York 14260. Telephone (866) 838-7257 or (716) 645-2450. For Honors Program and Presidential Scholarships: http://honors.buffalo.edu/prospective/scholarships.php or write to University Honors Program, University at Buffalo, 214 Talbert Hall, Buffalo, NY 14260. Telephone (716) 645-3020.

Graduate admissions: Please see website for required materials and deadlines:
http://www.buffalo.edu/cas/geography/graduate-program.html

Graduate Financial Aid: Departmental graduate assistantships are awarded competitively to well-qualified students. In addition, Presidential and College Fellowships are available on a university-wide competitive basis. For departmental assistantships, interested students must submit requests along with complete application materials. Research assistantships are obtained by invitation from individual faculty researchers. For detailed information on financial aid offerings, please go to www.buffalo.edu/cas/geography/graduate-program.html

RESEARCH FACILITIES & FACULTY: The Department has excellent computational and computer graphics equipment housed in the Geographical Information and Analysis Laboratory (GIAL). In addition, the Department has experimental flume, soils and biogeography laboratories. The University is a partner in the National Center for Geographic Information and Analysis (NCGIA), established by the National Science Foundation (NSF) to promote

basic and applied research related to GIScience. For additional information see: www.ncgia.buffalo.edu. The Department also houses the Canada-United States Trade Center (CUSTAC): www.buffalo.edu/cas/geography/custac.html

The Department of Geography currently has 19.5 active faculty members with research interests in a wide variety of areas. Our faculty members have been formally recognized by SUNY-wide and national teaching and research awards.

FACULTY:

Jared Aldstadt, Ph.D., San Diego State University/UC Santa Barbara, 2007, Associate Professor—medical geography, spatial epidemiology, GI Science, spatial analysis

Sharmistha Bagchi-Sen, Ph.D., University of Georgia, 1989, Professor and Chair—urban and economic geography

Sean J. Bennett, Ph.D., Binghamton University-SUNY, 1993, Professor—sediment transport mechanics, gully erosion, reservoir sedimentation, and watershed processes

Ling Bian, Ph.D., North Carolina-Chapel Hill, 1991, Professor—GIS for environmental modeling, spatial representation, remote sensing, image retrieval, spatial scale, physical geography

Thomas Bittner, Ph.D., Technical University of Vienna, 1999, Associate Professor—formal ontology, qualitative spatio-temporal reasoning, theoretical foundations of GIS

Abigail Cooke, Ph.D., University of California, Los Angeles, 2014, Assistant Professor—economic geography

Trina Hamilton, Ph.D., Clark University, 2006, Associate Professor—international trade, corporate responsibility

Geoffrey Jacquez, Ph.D., SUNY Stony Brook, 1989, Professor—medical geography, spatial analysis, exposure assessment

Chris P.S. Larsen, Ph.D., McMaster, 1994, Associate Professor—landscape ecology, vegetation dynamics, fire, tree-ring analysis, fossil pollen analysis

Nicholas Lustig, Ph.D., University of California, Los Angeles, 2014, Assistant Professor—urban geography

D. Scott Mackay, Ph.D., University of Toronto, 1997, Professor—hydrology, soil-vegetation-atmosphere linkages, watershed modeling, GIS and remote sensing

Sara S. Metcalf, Ph.D., University of Illinois, Urbana-Champaign, 2007, Associate Professor—urban social dynamics, agent-based modeling

Jessie Poon, Ph.D., Ohio State University, 1993, Professor—international trade, multinational corporations (international business), Third World development and Asia

Chris S. Renschler, Ph.D., University of Bonn, 2000, Associate Professor—environmental modeling, GIScience, remote sensing, global position systems (GPS), land use/natural resource/environmental management

Peter A. Rogerson, Ph.D., State University of New York at Buffalo, 1982, SUNY Distinguished Professor—dynamic migration modeling, demographic forecasting, mathematical modeling

Monica Stephens, Ph.D., University of Arizona, 2012, Assistant Professor—Volunteered Geographic Information (VGI), BigData, critical GIS, social media, gender and technology

Le Wang, Ph.D., University of California, Berkeley, 2003, Associate Professor—GIScience, image understanding, landscape dynamics

Marion Werner, Ph.D., University of Minnesota, 2010, Assistant Professor—labor, feminist and postcolonial theory, political economy, geographies of global production, Latin America and the Caribbean

Adam Wilson, Ph.D., University of Connecticut, 2012, Assistant Professor—global climate change

Eun-Hye Enki Yoo, Ph.D., UC Santa Barbara, 2006, Associate Professor—GIScience, geostatistics, spatial statistics, public health and environmental modeling, spatial hedonic modeling

EMERITI FACULTY (partial listing):

Athol D. Abrahams, Ph.D., Sydney, 1971, UB Distinguished Professor—fluvial geomorphology

David M. Mark, Ph.D., Simon Fraser, 1977, SUNY Distinguished Professor and Director Emeritus, National Center for Geographic Information and Analysis—geographic information systems, user interfaces, spatial cognition, digital terrain models, computer mapping

James E. McConnell, Ph.D., Ohio State University, 1969, SUNY Distinguished Teaching Professor—international business and world trade

Michael J. Woldenberg, Ph.D., Columbia, 1968, Professor—fluvial geomorphology

NORTH CAROLINA

EAST CAROLINA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING, and ENVIRONMENT
DATE FOUNDED: 1921
GRADUATE PROGRAM FOUNDED: 1964
DEGREES OFFERED: B.A., B.S., M.S.
GRANTED 9/1/13-8/31/14: 33 Bachelors, 12 Masters
STUDENTS IN RESIDENCE: 41 BS Geography, 5 BA Geography, 29 Atmospheric Science, 9 GIS, 24 Planning, 15 Masters
CHAIR: Burrell Montz
DEPARTMENT ADMINISTRATIVE ASST: Jolene Evans

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Planning and Environment, East Carolina University, Brewster A-227, Greenville, NC 27858. Telephone (252) 328-6230. Fax (252) 328-6054. Undergraduate Inquiries: Dr. Tom Allen (allenth@ecu.edu). Graduate Inquiries: Dr. Scott Curtis (curtisw@ecu.edu). Website: http://www.ecu.edu/geog/.

PROGRAMS AND RESEARCH FACILITIES:
Undergraduate tracks include the B.A. in Geography and the B.S. in Applied Geography with concentrations in either environmental or human aspects, the B.S. in Applied Atmospheric Science and the B.S. in Geographic Information Science and Technology. Department also houses BS in Urban and Regional Planning.

At the graduate level the Department specializes in human geography, physical geography spatial information technologies, and atmospheric science, and supports a variety of approaches within each of these areas. Faculty expertise is clustered around the following: *Sustainability and Environmental Justice; Environmental Geography; Atmospheric Science; Geographic Information Science; Rural Development; and Coastal Management.* The department maintains fully equipped research and instructional laboratories. These include a sediment lab, atmospheric science lab, hydrology lab, and three labs devoted to G.I. Science and visualization.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Semester system. Admission requirements are stated in the ECU Catalog. Students may declare an intended major in geography, geographic information science and technology, applied atmospheric science, or planning upon admission. The Department offers certificate programs in G.I. Science and atmospheric science.

GRADUATE: Semester system. Admission requirements are set forth in the Graduate Bulletin. Complete transcripts of all academic work are required, as are scores from the Graduate Record Examination. The graduate program is open to students with undergraduate degrees in geography or a closely related field. Assistantships are available to qualified students, the stipend for which is normally $5,500 per semester. A limited number of out-of-state tuition waivers are available on a competitive basis from the Graduate School. In order to be eligible for a tuition waiver, students must apply to the Graduate School by February 1st. The MS program is designed to be completed in two years, and requires either (a) 30 hours of coursework in combination with a thesis in the student's area of expertise, or (b) 36 hours of coursework in combination with an internship. Concentrations in Planning and Rural Development are also available.

FACULTY:

Thomas R. Allen, Ph.D., UNC Chapel Hill, 1995, Professor — GIS, RS, environmental change and ecological modeling, coastal

Beth A. Bee, Ph.D., Pennsylvania State University, 2011, Assistant Professor — Feminist theory, global change, international development

W.R. Scott Curtis, Ph.D., Wisconsin, 1998, Professor — hydrologic cycle, tropical climate variability, tropical storms, remote sensing

Paul A. Gares, Ph.D., Rutgers, 1987, Professor — aeolian and coastal geomorphology, environmental management, hazards

Holly M. Hapke, Ph.D., Syracuse, 1996, Associate Professor — social theory, rural development, fisheries, field methods, South Asia

Misun Hur, Ph.D., Ohio State University, 2008, Assistant Professor — planning, built urban environment, GIS and visualization

Scott A. Lecce, Ph.D., Wisconsin-Madison, 1993, Professor — fluvial and glacial hydrology, water resources, metallurgic contaminants

Ron Mitchelson, Ph.D., Ohio State, 1979, Provost and Professor — spatial analysis of urban-economic processes; transportation, GIS applications

Burrell Montz, Ph.D., Colorado, 1980, Professor and Chair — natural hazards; water resources management; environmental and resource analysis

Anuradha Mukherji, Ph.D., U.C. Berkeley, 2008, Assistant Professor — housing, disaster recovery planning, international development

Karen Mulcahy, Ph.D., CUNY, 1999, Teaching Associate Professor — Analytical cartography, GIS, Web cartography, municipal applications

Rosana Nieto-Ferreira, Ph.D., Colorado State, 1994, Associate Professor — Tropical climate variability and prediction

E. Jeffrey Popke, Ph.D., Kentucky, 1999, Professor — social theory, race and space, critical geopolitics, field methods, South Africa

Thomas Rickenbach, Ph.D., Colorado State, 1996, Associate Professor — Tropical precipitation systems, convection and large scale circulation

Hong-Bing Su, Ph.D., U.C. Davis, 1997, Associate Professor — micrometeorology, biometeorology, remote sensing, numerical modeling

W. Gaines Townsend, MPA, East Carolina, 1996, Instructor — planning, community development

Scott Wade, M.A., East Carolina, 1990, Instructor — GIS applications, computer cartography, ESRI-certified

Thad Wasklewicz, Ph.D., Arizona State University, 1996, Professor — terrestrial processes and forms, GIS applications

Yong Wang, Ph.D., Santa Barbara, 1992, Professor — remote sensing, GIS, image processing and analysis technology, wetland modeling

Mulatu Wubneh, Ph.D. Florida State University, 1976, Professor — regional planning, planning techniques, capacity building

ADJUNCT FACULTY:

Huili Hao, Ph.D., UNC Charlotte, Adjunct Assistant Professor — sustainable tourism, land use, policy

Katherine Jones, Ph.D., Kentucky, Adjunct Assistant Professor — urban development and political processes

Ernest Marshburn, PhD., East Carolina University, Adjunct Assistant Professor — coastal resources management

Heather Ward, PhD., East Carolina University, Adjunct Assistant Professor — coastal resources management

UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1936
GRADUATE PROGRAM FOUNDED: 1936
DEGREES OFFERED: B.A., M.A., Ph.D.
GRANTED (2014-2015): 36 B.A (majors; plus 46 minors)., 3 M.A., 6 Ph.D.
STUDENTS IN RESIDENCE: 108 Majors, 99 Minors, 40 M.A. /Ph.D.
NOT IN RESIDENCE: 4 M.A. /Ph.D.
CHAIR: Michael Emch
DEPARTMENT ADMINISTRATIVE STAFF: Barbara Taylor; Nell Phillips; Daniel Warfield

FOR FURTHER INFORMATION CONTACT: Banu Gökariksel, Director of Graduate Studies, Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3220. Telephone: (919) 843-5835. Fax: (919) 962-1537.
E-mail: kirsch@email.unc.edu. Internet: http://geography.unc.edu/.

PROGRAMS AND RESEARCH FACILITIES: UNC is recognized as one of the nation's leading public research and teaching institutions, with extensive and state-of-the-art resources, nationally and internationally recognized academic programs, and many outstanding research institutes and international studies centers. Geography at UNC offers the B.A., M.A., and Ph.D. degrees. The graduate program is organized around and focused primarily on the Ph.D.. The Department also offers a Graduate Certificate in Geographic Information Sciences.

The Department of Geography offers a wide range of graduate teaching and research opportunities, with primary focus on five clusters of faculty and student activity:

1) *Biophysical Geography and Earth Systems Science.* UNC-Chapel Hill geographers investigate the biophysical environment as an integrated system emphasizing the linkages and feedbacks between terrestrial, aquatic and atmospheric form and function.

2) *Culture, Society, and Space.* This cluster of faculty and students focuses on various aspects of political economy, social change, social theory, cultural studies, gender studies, feminism, disciplinary history, and science, technology, and society. Many students in this cluster also take the Certificate in Cultural Studies.

3) *Geographic Information and Analysis.* UNC-Chapel Hill geographers apply geographic information sciences as an integrated set of spatial digital technologies to investigate biophysical and social phenomena. They use and develop tools, techniques, concepts, and data sets associated with geographic information systems, remote sensing, data visualization, global positioning systems, spatial analysis, and quantitative methods.

4) *Globalization and International Development.* UNC–Chapel Hill geographers study the consequences of processes of globalization (and the anti-globalization and global justice

movements they stimulate); international development and its effects on the geographies of international and local capital, labor, technology, information, goods and services; post-socialism, political economy, political geography and geopolitics, and political ecology.

5) *Nature-Society Studies and Human-Environment Interactions.* Drawing on analytical and theoretical perspectives from ecology, socio-ecological systems, political ecology, science studies, and cultural studies, UNC–Chapel Hill geographers investigate the social contexts, drivers, and consequences of environmental change and struggles over land use and resources.

The Graduate Certificate Program in Geographic Information Sciences is a non-degree program for graduates comprising coursework in geographic information systems, remote sensing, quantitative methods, spatial analysis, global positioning systems, and data visualization. It is designed for students who wish to acquire technical expertise to support topical knowledge gained in their undergraduate and graduate programs and returning students who wish to acquire specialized education and training to meet current or future job requirements calling for knowledge in GISci.

Graduate Certificate Program in Cultural Studies. The University Program in Cultural Studies is a multi-disciplinary program that includes faculty and students from many departments, including Communication Studies, History, English, Romance Languages, Geography, and Anthropology. Students may complete the graduate certificate as part of their MA or Ph.D. program, taking courses in social and cultural theory and participating in working groups currently organized around cultures of economy, politics and democracy, science and technology, memory, and social movements.

Programmatic Facilities. Students have access to a broad spectrum of university facilities and research institutes. Cooperative programs with North Carolina State University and Duke University permit the use of their combined library holdings, courses, and facilities associated with course-work and research. The Odum Institute for Social Science Research offers regular short and longer training courses and workshops. Faculty and graduate students also have access to facilities and programs in many research centers and institutes, including the Carolina Population Center, Center for Urban and Regional Studies, Center for Galapagos Studies, Institute for the Environment, and Center for Global Education with its many centers of regional and international studies.

ACADEMIC PLAN, GRADUATE ADMISSION REQUIREMENTS, AND FINANCIAL AID: We award both M.A. and Ph.D. degrees, but the major emphasis of our program is the Ph.D. Graduate application is through the Graduate School's online system where interest statements, CVs, and other documents can be uploaded: (http://gradschool.unc.edu/students_prospective.html). The deadline for receiving all application materials is January 1. The Department only admits students into the program in August. The process and necessary documents are detailed at the Department's Graduate application web page: http://geography.unc.edu/programs/graduate.
The Department offers merit-based research or teaching assistantships with competitive stipends, health care insurance, and a tuition waiver. Most graduate students are funded, by the Department of Geography, by affiliated units, or by faculty research grants. In addition, University fellowships are available for graduate students with superior academic records. The Department also offers students opportunities to travel and conduct research through Departmental travel funds and the University has many opportunities for research funding through its many international and area studies centers.

RESEARCH AND TEACHING FACULTY:

Lawrence E. Band, Ph.D., UCLA, 1983, Voit Gilmore Distinguished Professor—hydrology, geomorphology, ecosystems, GIS, remote sensing, environmental modeling

Xiaodong Chen, Ph.D., Michigan State, 2010, Assistant Professor—human-environment interactions, modeling and simulation, GIS, environmental policy, China

Altha J. Cravey, Ph.D., Iowa, 1993, Associate Professor—international development, social theory, gender, Latin America

Michael Emch, Ph.D., Michigan State 1998, Chair and Professor—medical, GISci, population-environment, South Asia

Banu P. Gökariksel, Ph.D., University of Washington, 2003, Associate Professor—urban, cultural and feminist geography, social theory, contemporary Muslim societies, Middle East

Clark Gray, Ph.D., University of North Carolina Chapel Hill 2008, Associate Professor—population, environment and development; survey and statistical methods

Elizabeth Havice, Ph.D., University of California, Berkeley 2009, Associate Professor—political economy and ecology, international development, environmental politics

Christian Lentz, Ph.D., Cornell University, 2010, Assistant Professor—development, nature-society relations, agrarian studies, Southeast Asia

Jun Liang, Ph.D., University of Cincinnati, 2001, Instructor and GIS technician—spatial modeling, cartography, GIS, Remote Sensing

Scott L. Kirsch, Ph.D., Colorado, 1997, Associate Professor—historical, cultural, and political geography, science & technology studies

Charles E. Konrad, Ph.D., Georgia, 1993, Associate Professor—climatology, meteorology

Nina Martin, Ph.D., University of Illinois at Chicago, 2008, Associate Professor—urban geography, global cities, civil society, migration

Aaron Moody, Ph.D., Boston, 1994, Associate Professor—GIS/remote sensing, biogeography

Elizabeth Olson, Ph.D., Colorado, 2005, Associate Professor—Development and Inequality, Religion, Global Studies, Moral Geographies

Lauren Persha, Ph.D., Indiana University, 2008, Assistant Professor—conservation, development, political ecology, Africa

John Pickles, Ph.D., Pennsylvania State, 1983, Earl N. Phillips Distinguished Professor of International Studies—globalization, political economy, post-socialism, social theory and geographic thought, Europe

Alvaro Reyes, Ph.D., Duke University, 2009, Assistant Professor—urban and political geography, Black geographies, Latin American movements,

Diego Riveros-Iregui, Ph.D., Montana State, 2008, Assistant Professor—Ecohydrology, watershed hydrology, biogeochemistry, land-atmosphere interactions, tropical hydrology, climate and land use cover change

Sara Smith, Ph.D., Arizona, 2009, Associate Professor—social, South Asia, India

Conghe Song, Ph.D., Boston, 2001, Professor—remote sensing, ecosystem modeling, land use/land cover change, GIS

Stephen J. Walsh, Ph.D., Oregon State, 1977, Lyle V. Jones Distinguished Professor—remote sensing, GIS, physical, land use change, human-environment interaction, spatial modeling

Gabriela Valdivia, Ph.D., Minnesota, 2005, Associate Professor—political ecology, critical resource geography, environmental governance, Latin America

Stephen J. Walsh, Ph.D., Oregon State, 1977, Lyle V. Jones Distinguished Professor—remote sensing, GIS, physical, land use change, human-environment interaction, spatial modeling

Erika Wise. Ph.D., Arizona 2009, Associate Professor—Climatology, dendrochronology, water resources

PROFESSORS EMERITI:

Stephen S. Birdsall
Clyde Browning
John Florin
Wil Gesler
Richard Kopec

Peter Robinson
Tom Whitmore

UNIVERSITY OF NORTH CAROLINA, CHARLOTTE

DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCES
DATE FOUNDED: 1965
GRADUATE PROGRAM FOUNDED: 1973
DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.
DEGREES GRANTED 7/1/15-6/30/16: 80 Bachelors, 13 Masters, 5 Doctorates
STUDENTS IN RESIDENCE: 307 Undergraduate Majors, 44 Masters, 25 Ph.D.
NOT IN RESIDENCE: 33 Undergraduate Majors, 2 Masters, 1 Ph.D.
CHAIR: Craig J. Allan
DEPARTMENT ADMINISTRATIVE ASSISTANT: Teresa Cleveland

FOR ADMISSIONS SEE: http://graduateschool.uncc.edu/future-students/admissions. International students should also see http://graduateschool.uncc.edu/future-students/admissions/international-applicants

FOR PROGRAM INFORMATION SEE:
http://www.geoearth.uncc.edu

ADDRESS OTHER CORRESPONDENCE TO: Department of Geography and Earth Sciences, University of NorthCarolina at Charlotte, 9201 University City Blvd., Charlotte, North Carolina 28223-0001. Telephone (704) 687-5973. Fax (704) 687-5966. Or feel free to contact: **Earth Sciences Undergraduate Coordinator:** William Garcia wjgarcia@uncc.edu; **Geography Undergraduate Coordinator**: Jamie L. Strickland jstrickl@uncc.edu; **Meteorology Undergraduate Coordinator:** Terry Shirley trshirle@uncc.edu; **Earth Sciences MS Coordinator:** Scott Hippensteel shippens@uncc.edu; **Geography MA Coordinator:** Eric Delmelle Eric.Delmelle@uncc.edu; **Geography Ph.D. Director:** Heather Smith heatsmit@uncc.edu

PROGRAMS AND RESEARCH FACILITIES: In 2006, the Department of Geography and Earth Sciences initiated a new Ph.D. program in Geography and Urban Regional Analysis focused on two interconnected research themes: multi-scalar analysis and GIScience. Pairing technology and theory in the core curriculum, the doctoral program is designed to prepare graduates for research positions in the public and private sectors, as well as academic careers. The doctoral program builds upon and complements a strong, applied Master of Arts program in Geography. There are four areas of specialization within the M.A. in Geography. These include concentrations in GIScience and technology, location analysis and urban and regional analysis. We also offer a track in community planning. Students who choose the community planning track are awarded a M.A. in Geography and complete a formally structured multi-disciplinary core, which includes coursework in geography, architecture, economics, and public administration. The department also offers an M.S. degree in Earth Sciences which offers multiple options for interdisciplinary training and research, particularly for students interested in meteorology and geology.

At the undergraduate level, the Department awards B.S. and B.A. degrees in Geography as well as a B.A. in Environmental Studies and B.S. degrees in Earth and Environmental Sciences; Geology and Meteorology. Like the M.A. in Geography program, the baccalaureate curriculum at UNC Charlotte is focused on applied geography. Undergraduate concentrations in urban, social and economic geography, location analysis, urban and regional planning, and GIScience and Technologies attract large numbers of undergraduates. The university-wide minor in urban studies is also centered in the Department.

Situated in a rapidly growing and internationalizing metropolitan region, UNC Charlotte offers undergraduate, Masters, and Doctoral students a variety of opportunities for engagement in research, outreach and internship programs that allow them to apply their problem-solving skills in the public, private and non-profit sectors. Ultimately, their training and experiences have led to excellent placement rates with regional and national employers as well as in various programs of advanced study. In addition to teaching and research assistantships, the department provides opportunity for competitive students to be placed with a local company or agency in a paid internship as a part of their degree program.

The McEniry building, is home of the Department. Currently, the Department occupies the entire 93,000 sq. ft. building. With greatly expanded teaching, research, and office space, major facilities include two microcomputer laboratories, a GIScience laboratory featuring 43 PC workstations and Arc GIScience, Arc/Info and ERDAS Imagine software, and modern computer cartographic facilities. The Department also houses the Center for Applied Geographic Information Science and this research unit offers a number of research assistantship opportunities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
***Undergraduate*:** UNC Charlotte operates on the semester system. Admission requirements for the undergraduate programs require graduation from an accredited secondary school, or equivalency certificate, and satisfactory combination of secondary school class rank and SAT or ACT score. Financial aid is available through the federal work-study programs, various loan programs, and several types of scholarships. Undergraduate admission information and materials are available at: www.admissions.uncc.edu

***Graduate Geography*:** Departmental graduate assistantships are awarded on a competitive basis to qualified students, and we also strive to provide summer support for qualified students. Doctoral assistantships currently carry stipends of at least $14,000 and can include healthcare insurance, and a tuition waiver through the Graduate School. Masters assistantships have a competitive stipend of at least $10,000. A limited number of out-of-state tuition fee adjustments are offered that substantially reduce non-resident Master's students tuition rates. In addition to its allocation of teaching assistantships, the Department typically has a large number of research assistantships that are funded from faculty grants and contracts. Application forms can be downloaded from the Graduate School's website: http://graduateschool.uncc.edu/future-students/admissions. An official transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Geography major is not required, but those students who are deficient in the basic concepts and methods of Geography will be required to take prerequisite coursework. Applications for assistantships should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission for the Fall Semester should be received by July 1. Financial aid is possibly available for students who enter in the Spring semester as well. Prospective graduate students are encouraged to visit the Department.

Graduate Earth Sciences: Departmental graduate assistantships are awarded on a competitive basis to qualified students, and we also strive to provide summer support for qualified students. Masters assistantships have a competitive stipend of at least $10,000. A limited

number of out-of-state tuition fee adjustments are offered that substantially reduce non-resident Master's students tuition rates. In addition to its allocation of teaching assistantships, the Department typically has a large number of research assistantships that are funded from faculty grants and contracts. Application forms can be downloaded from the Graduate School's website: http://graduateschool.uncc.edu/future-students/admissions. An official transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Earth Sciences, Geology or Meteorology degree is preferred but not required. Those students who are deficient in the basic concepts and methods in their chosen field of study will be required to take prerequisite coursework. Applications for assistantships should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission for the Fall Semester should be received by July 1. Financial aid is possibly available for students who enter in the Spring semester as well. Prospective graduate students are encouraged to visit the Department.

FULL AND PART-TIME FACULTY:

Craig J. Allan, Ph.D., York University, 1992, Professor and Department Chair—hydrology, biogeochemistry

Jake Armour, M.S., University of New Mexico, 2002, Senior Lecturer—paleoclimatology, soils

Andy R. Bobyarchick, Ph.D., SUNY at Albany, 1983, Associate Professor—structural and tectonic geology, the Appalachians

Robert Boyer, Ph.D., University of Illinois Urbana Champaign, 2013, Assistant Professor—environmental planning and sustainability

Harrison S. Campbell, Ph.D., Illinois at Urbana-Champaign, 1994, Associate Professor and Department Associate Chair—economic geography, regional development, regional analysis

Jacapo Canello, PhD., The University of Queensland, 2014, Assistant Professor—economic geography, globalization.

Casey Davenport, Ph.D. North Carolina State University, 2011, *Assistant Professor*—Severe weather meteorology.

Gang Chen, Ph.D. University of Calgary 2010, Assistant Professor—Remote Sensing, Human-environmental interactions.

Sandra Clinton, Ph.D., University of Washington 2001, Research Assistant Professor—river ecology, urban ecosystems and sustainability.

Elizabeth C. Delmelle, Ph.D. UNC at Charlotte, 2012, Assistant Professor—GIS, urban geography, transportation, spatial analysis and modeling.

Eric Delmelle, Ph.D. SUNY at Buffalo, 2005, Associate Professor and Coordinator of the Geography Master's Program—GIS, space-time modeling, epidemiology, uncertainty

John A. Diemer, Ph.D., SUNY at Binghamton, 1985, Professor—sedimentology, stratigraphy, environmental geology

Mathew D. Eastin, Ph.D. Colorado State University 2003, Associate Professor—tropical meteorology and atmospheric observation,

M.C. Eppes, Ph.D., University of New Mexico, 2002, Associate Professor—soils, paleoenvironments

Patricia Fall, Ph.D., University of Arizona, 1988, Professor—Biogeography, paleoecology, human impact on ancient environments

Sarah Gagné, Ph.D. Carlton University 2009, Associate Professor—Urban Ecology

William J. Garcia, ABD, Ph.D. Candidate, University of Cincinnati, Senior Lecturer/Lab Coordinator—early amphibian evolution, Paleozoic biogeography

Laurie Garo, M.A., University of Wisconsin-Madison, 1984, Lecturer—cartography, GIS applications

William W. Graves, Ph.D., University of Georgia, 2000, Associate Professor—economic, urban, transportation

Scott P. Hippensteel, Ph.D., University of Delaware, 2000, Associate Professor and Coordinator of the Earth Sciences Master's Program—environmental geology, marine environments

Brian Magi, Ph.D. University of Washington Seattle 2006, Assistant Professor—biogeophysical modeling, atmospheric sciences, global change

Céline Martin, PhD., Universite Henri Poincare, Nancy 1, 2009, Assistant Professor—Igneous and Metamorphic Petrology.

Tyrel G. Moore, Ph.D., University of Tennessee, 1984, Professor—regional development and planning, urban planning methods, small town planning

Valerie S. Reynolds, PhD., University of Tennessee Knoxville, 2005, Lecturer—Geology

Terry Shirley, M.S., Pennsylvania State University 2004, Senior Lecture and Undergraduate Coordinator of Atmospheric Science Programs—synoptic meteorology and forecasting

Heather A. Smith, Ph.D., University of British Columbia, 2000, Professor and Director, Urban Studies Minor and Director of Geography Ph.D. and MA Programs—urban, social, global/local restructuring, immigration

Janni Sorensen, Ph.D. University of Illinois, 2007, Associate Professor—neighborhood planning, service learning, planning theory

Jamie Strickland, ABD, University of Georgia., Senior Lecturer and Coordinator of Undergraduate Geography Programs—population, aging, geography education

Wenwu Tang, Ph.D. University of Iowa 2008, Assistant Professor and Interim Director of Center for Applied GISciences—Geospatial Analysis.

Jean-Claude Thill, Ph.D., Universite Catholique deLouvain, 1988, Knight Distinguished Professor of Public Policy—geographic information science and transportation, industrial, location theory.

David Vinson, Ph.D.., Duke University, 2011 Assistant Professor—Hydrogeology, Isotope Geochemistry

Wei-Ning Xiang, Ph.D., University of California at Berkeley, 1989, Professor—GIS, urban and regional planning

EMERITI PROFESSORS:

John F. Bender
Owen J. Furuseth,
David T. Hartgen
Gerald L. Ingalls
Sallie M. Ives
J. Dennis Lord
Walter E. Martin
Nelson Nunnally
Norman W. Schul
John Sommer
Alfred W. Stuart
Wayne A. Walcott

UNIVERSITY OF NORTH CAROLINA, GREENSBORO

GEOGRAPHY DEPARTMENT
DATE FOUNDED: 1940
DEGREES OFFERED: B.A., M.A., Ph.D.
DEGREES GRANTED 9/1/14 – 8/31/15: 19 Bachelors, 5 Masters, 2 Doctoral
MAJORS: 69 Undergraduate, 21 Masters, 22 Doctoral
CHAIR: Corey M. Johnson
PROGRAM ADMINISTRATIVE ASSISTANT: Lois S. Carney

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Corey M. Johnson (e-mail corey_johnson@uncg.edu), Department of Geography, Room 237 Graham Building, The University of North Carolina at Greensboro, Greensboro, North Carolina 27402-6170.

GRADUATE DIRECTOR: Selima Sultana (e-mail: s_sultan@uncg.edu) , Director of Graduate Studies, Department of Geography, Room 237 Graham Building, The University of North Carolina at Greensboro, Greensboro, North Carolina 27402-6170. Telephone: (336)-334-5388, Fax (336)-334-5864. Internet: www.uncg.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers an undergraduate program with the following objectives: to promote the understanding of the locational dimensions of human behavior in their environmental context; to offer a curriculum where geographic concepts and methods are applied to understanding economic, environmental and social problems at the urban and regional scale; and to promote international understanding through area studies. The purposes of the program are to contribute an important dimension to the university student's liberal education and to provide practical training in geographic methods relevant for jobs in both the private and public sectors.

Graduating majors of the department have found careers in business and industry, urban and regional planning agencies, departments and agencies of the state and federal government, and in teaching.

Special facilities of the department include the Carolina Tree-Ring Science Laboratory, the Soil and Regolith Laboratory, two fully-equipped GIS classrooms/laboratories (each with 20+ stations) and the Remote Sensing Research Laboratory.

Students pursuing the M.A. in Applied Geography can choose from one of three areas of emphasis:

1. Urban Planning, Transportation and Regional Economic Development. This area includes work in urban and economic development applied to metropolitan and regional areas on a variety of scales, including issues of transportation, tourism, demographics, political boundaries, and business site selection. Departmental specialties include North America, Europe, and Asia.
2. Earth Science and Natural Resource Management. This area includes departmental specializations in climatology, dendroecology, hydrology, geomorphology, soils, and environmental assessment. Fieldwork opportunities are an integral extension of classwork.

3. Geographic Information Science. This area comprises the techniques and research focus of cartography, geographic information systems, and remote sensing including work in statistics, computational modeling, and visualization.

The Ph.D. in Geography began in fall 2004. The PhD program centers on a research-oriented application of geographical concepts to solving real-world problems. The degree culminates in one of two projects: the traditional dissertation, or a three article option. Concentration is in one of the three areas outlined above. The program has a strong record of placing graduates in positions in the public and private sectors, as well as to university teaching and research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission for undergraduates is located at http://admissions.uncg.edu/apply-applications.php. You can apply online or download a PDF paper application. Applications for the Master's in Applied Geography and the Ph.D. in Geography are located at https://grs.uncg.edu/apply-online.

FACULTY:
Ricky L. Bunch, *Ph.D., South Carolina, 2000, Professor* — Geographic Information Science, spatial cognition
Keith G. Debbage, *Ph.D., Georgia, 1988, Professor* — Urban planning, regional development, tourism
Mary B. Hall-Brown, *Ph.D., UNC Greensboro, 2012, Senior Lecturer/Physical Lab Director* — GIScience, agriculture
Corey M. Johnson, Ph.D., Oregon, 2008, Associate Professor and Department Head — Regional development, borders, geopolitics
Paul A. Knapp, Ph.D., Georgia, 1989, Professor — Biogeography, climatology, dendroecology
G. Jay Lennartson, *Ph.D., Wisconsin-Milwaukee, 1997, Assistant Professor and Assistant Director of Undergraduate Studies* — Environmental planning, environmental hazards, climatology and meteorology
Michael E. Lewis, *Ph.D., Oklahoma, 1988, Associate Professor and Associate Department Head* — Natural resources, environmental management, applied physical geography
Zhi-Jun Liu, *Ph.D., Iowa, 1995, Associate Professor* — Environmental geography, GIS, spatial statistics, hydrologic/ecological modeling
Elisabeth S. Nelson, *Ph.D., South Carolina, 1995, Associate Professor* — Cartographic perception cognition
James A. Nelson, *M.S., San Diego State, 1999, Senior Academic Professional/Lab Director* — GIS, urban
Jeffrey C. Patton, *Ph.D., Kansas, 1980, Professor* — Cartography, GIS, physical geography
P. Daniel Royall, Ph.D., Tennessee, 1997, Associate Professor — Geomorphology, soils, water resources, quaternary environments
Roy S. Stine, *Ph.D., South Carolina, 1991, Associate Professor* — Remote sensing, geographic information systems
Selima Sultana, *Ph.D., Georgia, 2000, Professor* — Transportation, urban geography, GIS

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

DEPARTMENT OF GEOGRAPHY & GEOGRAPHIC INFORMATION SCIENCE (GISc)
DATE FOUNDED: 1885 curriculum in Geology, 1942 Independent
GRADUATE PROGRAM FOUNDED: 1920
DEGREES OFFERED: B.S. in Geography (tracks in Community and Urban Development, Environmental Geography, Geographic Education); Undergraduate Minor in Geospatial Technologies, Geography; B.A. and B.S. in Environmental Studies; M.A., M.S. in Geography; Graduate Certificate in Geographic Information Science
GRANTED7/1/14-6/30/15: 16 Bachelors, 4 Masters, 23 GISc
STUDENTS IN RESIDENCE: 34 Majors, 8 Masters
NOT IN RESIDENCE: 33 GISc
CHAIR: Gregory Vandeberg
GRADUATE DIRECTOR: Douglas Munski
GISc DIRECTOR: Enru Wang
DEPARTMENT ADMINISTRATIVE ASST: Cindy Purpur

FOR CATALOG AND FURTHER INFORMATION CONTACT: Chair, Department of Geography & GISc, University of North Dakota, 221 Centennial Drive, Stop 9020, Grand Forks, North Dakota 58202-9020.
Telephone (701) 777- 4246. Fax (701) 777-6195.
E-mail:gregory.vandeberg@und.edu.
Internet: http://arts-sciences.und.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:
UND awards a Bachelor of Science degree with a Major in Geography with three options: community and urban development, environmental geography, and geographic education (36 semester hours each). UND also offers Bachelor of Arts and Bachelor of Science degrees in Environmental Studies (45 semester hours each) within the Geography & GISc Department. Graduate degrees awarded include the Master of Arts and Master of Science (thesis and non-thesis options). Graduate students develop a systematic interest, demonstrate knowledge of basic research tools and geographic techniques, and complete a minor or cognate in another discipline. Related disciplines across campus include education, business, finance, anthropology, Indian studies, recreation and tourism studies, geology, space studies, public administration, atmospheric sciences, and fisheries and wildlife biology. A graduate certificate program in Geographic Information Science is also offered.

The Geography & GISc Department houses a spatial analysis laboratory with a full range of image processing and GIS hardware and software. The department also has a physical geography wet lab. A variety of field equipment is also available for field research projects. Faculty techniques interests include GISc, remote sensing, computer-assisted cartography, field methods, and quantitative techniques. Faculty systematic areas cover biogeography, climatology, geomorphology, hydrology, economic development, geographic education, economic, historical, population, transportation, and urban, while regional specialties include Canada, Europe, North America and China.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: For the most up-to-date information about undergraduate admissions and financial aid, please see http://www.go.und.edu/.

Graduate: Entering graduate students must have completed an undergraduate major and hold a Bachelors degree in geography from a recognized institution. Applicants are evaluated on an individual basis, however, and those with limited background in geography may be accepted on a qualified basis with the understanding that deficiencies will be remedied early in their graduate program. Admission to approved status requires a minimum GPA of 3.00 in all undergraduate work, a minimum of 9 semester hours of undergraduate work in geography and 6 credits cognate to geography. Admission to the GISc certificate program requires a minimum GPA of 2.75 in all undergraduate work and is open to all students regardless of their background in geography. Financial assistance is available to graduate students in the form of graduate teaching and research assistantships, tuition waivers, or a combination of the two. Assistantships carry up to a nine-month stipend of $14,994 with a full tuition waiver.

FACULTY:
Christopher J. Atkinson, Ph.D., Kansas, 2010, Assistant Professor — climatology, GIS, Great Plains
Douglas C. Munski, Ph.D., Illinois, 1978, Professor — historical, geographic education, tourism, Canada, North Dakota
Michael A. Niedzielski, Ph.D., Ohio State, 2009, Assistant Professor — transportation, urban land use, GIS
Bradley C. Rundquist, Ph.D., Kansas State, 2000, Professor — remote sensing, GIS, biogeography
Paul E. Todhunter, Ph.D., UCLA, 1986, Professor — climatology, hydrology, environmental hazards, human impacts
Gregory S. Vandeberg, Ph.D., Kansas State, 2005, Associate Professor — fluvial & glacial geomorphology, water resources, GIS
Enru Wang, Ph.D., Washington, 2005, Associate Professor — economic, regional development, urban, China, GIS

ADJUNCT FACULTY:
Philip J. Gerla, Ph.D., Arizona, 1983, Associate Professor (Geology and Geological Engineering) — hydrology
Rebecca L. Phillips, Ph.D., North Carolina, Research Plant Physiologist (Ecological Insights Corporation, Mandan, ND) — ecosystem biochemistry, remote sensing
Santhosh K. Seelan, Ph.D., Jawaharlal Nehru Technological University, 1994, Professor (Space Studies) — remote sensing, developing countries, geospatial techniques
Jeffrey A. VanLooy, Ph.D., Utah, 2007, Assistant Professor (Earth Systems Science and Policy) — fluvial geomorphology, glaciology, remote sensing

EMERITUS FACULTY:
Devon A. Hansen, Ph.D., Utah, 1999, Associate Professor — population, migration, gender issues, community development, Great Plains
Mohammad Hemmasi, Ph.D., Indiana University, Professor

OHIO

KENT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1914
GRADUATE PROGRAM FOUNDED: 1935
DEGREES OFFERED: B.A., M.A., Ph.D.
GRANTED 6/1/14-5/31/15; 14 Bachelors, 7 Masters, 7 Ph.D.
STUDENTS IN RESIDENCE: 98 Majors, 13 Masters, 28 Ph.D.
NOT IN RESIDENCE: 1 Masters, 4 Ph.D.
CHAIR: Scott Sheridan
GRADUATE COORDINATOR: David Kaplan
UDERGRADUATE COORDINATOR: Jennifer Mapes
DEPARTMENTAL SECRETARY: Mary Lou Church
GRADUATE SECRETARY: Tracee Young

FOR FURTHER INFORMATION:
http://www.kent.edu/geography/ or Department of Geography, 413 McGilvrey Hall, Kent State University, Kent, Ohio 44242, USA.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers B.A., M.A. , M.G.I.S., and Ph.D. degrees. We offer comprehensive and relevant curricula at all levels and have major research specialties in hazards and health; race, ethnicity, and place; urban ecology and sustainability; political ecology; water resources; climatology and meteorology; social media; GIS; community planning; social justice; and memory and violence. While preparing our students with a strong theoretical base, our approach is very applied, utilizing state-of-the art geospatial technologies to understand these complex human-environment interactions.

The baccalaureate degree program offers a major and a minor in geography. In addition, minor programs are available in Climatology, GIS, and Urban Studies and Planning. The Master of Arts degree emphasizes the acquisition of application-oriented research skills as well as expertise in the major subfields of geography. The Master of GIS degree is fully online and offers specialized training in Cyber GIS, Environmental GIS, and GIS and Health. The Ph.D. program is individually designed for each student who wishes to conduct research in selected areas of faculty specialization. Current graduate faculty research interests include: behavioral, biogeography, borderlands, climatology, cultural, economic, environmental, ethnicity, geographic information science, glacial and fluvial geomorphology, hazards, industrial, medical, meteorology, methods, political, population, regional development, remote sensing, transportation, urban, and the regional specialties of North America, Africa, east and southeast Asia,

and Europe. Research facilities include a 1.7 million volume library, the University map collection (over 200,000 sheets), and university and statewide on-line library information and research database system. Computing facilities in the department include three state-of-the art teaching laboratories housing over 80 computers, and several research laboratories for atmospheric research, applied geography, GIS health and hazards and social science computation. Software currently running with site licenses includes ArcInfo, ArcGIS, ArcGIS Server, ArcSDE, ArcIENVI, ERMapper, PCI Geomatica, ERDAS, eCognition, SPSS, SAS, MapInfo, Matlab, NVivo, Surfer, Adobe Illustrator and Adobe Photoshop, among others. Additional facilities and equipment include access to a suite of supercomputers in the Ohio Supercomputer Center and a Physical Geography Laboratory.

The department is housed in McGilvrey Hall and shares the building with the Department of Geology and the University Map Library. Situated in a small, thriving city within urbanized northeast Ohio, Kent State University has ready access to a variety of research environments: large cities, small towns, agricultural regions, the Great Lakes and the Appalachian highlands and other environmentally-sensitive areas.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Kent State University operates on a semester system.

Undergraduate: KSU will accept either ACT or SAT scores. All candidates for the B.A. degree must complete the University Liberal Education Requirements, including course work in one foreign language. The geography major requires a minimum of 44 semester hours. These hours consist of 26 hours of core geography courses and at least 18 hours which may be selected from one of the following concentrations in Social Geography, Environmental Geography, and Geographical Information Sciences.

Interdisciplinary minor and certificate programs in Geographic Information Science, Urban Studies and Planning, and Climatology are offered through the Department. Internships in these programs are available. Both a Geography Club and Gamma Theta Upsilon are active.

Graduate: All applicants for admission to the graduate programs must meet the requirements of the Graduate College and satisfy the graduate faculty of the Department that they have the capability of pursuing graduate level studies. A minimum grade point average of 3.0 on a 4.0 scale or its equivalent is required for regular admission (a 3.3 undergraduate GPA and a 3.5 graduate GPA is strongly encouraged). Applicants are normally expected to have the equivalent of a Geography minor, 24 credit hours (for M.A. program), or M.A. in Geography (for Ph.D. program). Deficiencies may be made up after admission. Applicants to the Ph.D. program should have completed a thesis. A minimum of thirty (30) hours of credit are required for the M.A. degree, and thirty-two for the M.G.I.S. degree. Sixty semester hours beyond the Masters degree are required for the Ph.D., with thirty of these credits assigned to the dissertation. Applications are especially encouraged from qualified students representing all minority groups, the physically disabled, and women.

Financial aid is available in the form of graduate teaching assistantships, research assistantships, and university fellowships. All appointments provide a remission of most fees. Applicants are asked to apply by February 1st for fall enrollment.

Submit applications on line: http://www.kent.edu/admissions/Apply/.

FACULTY:

Kay Amey, Ph.D., Kent State University, 2011, Assistant Professor (Ashtabula Campus) — hydrology, environmental geology, hydrogeology, environmental geography

Andrew Curtis, Ph. D., State University New York Buffalo, 1995, Professor — geographic information science, hazards and disasters, mapping epidemics, public health mapping, crime mapping

Jacqueline Mills Curtis, Ph.D., Louisiana State University, 2005, Assistant Professor — geographic information systems, geospatial technologies, natural disasters, built environment, maternal child health

Mary Ann Haley, Ph.D., Kent State University, 1985, Assistant Professor and Associate Dean — economic development, industrialization, North America, Europe, Post-Soviet Eurasia

David H. Kaplan, Ph.D., Wisconsin, 1991, Professor and Graduate Coordinator — urban, political, ethnicity, population, nationalism

Jay Lee, Ph.D., Western Ontario, 1989, Professor — spatial analysis, methodology, geographic information science, urban sprawl

Jennifer Mapes, Ph.D., University of Southern California, 2009, Assistant Professor and Undergraduate Coordinator — urban geography, community planning, small towns in the U. S., sustainable development

Keith Muller, Ph.D., Wisconsin-Milwaukee, 1987, Associate Professor (Trumbull Campus) — agriculture, population, rural settlement, Brazil, Latin America

Mandy J. Munro-Stasiuk, Ph.D., Alberta, 1999, Professor and Associate Provost — glacial environments, remote sensing, geoarchaeology, karst environments.

Rebecca P. Parylak, Ph.D., Texas State - San Marcos, 2009, Associate Professor — climatology, natural hazards, physical geography

Christopher W. Post, Ph.D., University of Kansas, 2006, Associate Professor (Stark Campus) — landscape and memory, identity and sense of place, micropolitics of place, historical geography, geography education, exurbanization, popular culture

Thomas W. Schmidlin, Ph.D., Cornell, 1984, Professor — meteorology, climatology, natural hazards, cold regions, Ohio, geography of wine

Scott C. Sheridan, Ph.D., Delaware, 2000, Professor and Chair — synoptic climatology, climate change, bioclimatology, meteorology

Sarah L. Smiley, Ph.D., University of Kansas, 2007, Associate Professor (Salem Campus) — urban, cultural, and historic geography, Sub-Saharan Africa

Kelly Turner, Ph.D., Arizona State University, 2013 Assistant Professor — sustainable urban planning, institutional analysis, environmental decision-making and management, urban ecology, water resources

James Tyner, Ph.D., Southern California, 1995, Professor — population geography, political geography, geopolitics, military geography, and geographic thought

Emariana Widner, Ph.D., Texas State - San Marcos, 2009, Associate Professor — urban ecology, resource conservation, environmental philosophy and perception, ecological and multi-agent modeling

Xinyue Ye, Ph.D., Assistant Professor — geographic information science, computational social science, open source, spatial econometrics, crime analysis

MIAMI UNIVERSITY OF OHIO

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1906
GRADUATE PROGRAM FOUNDED: 1929
DEGREES OFFERED: Certificate in GIScience, A.B. in Geography, A.B. in Urban and Regional Planning, M.A.
GRANTED 9/1/14-8/31/15: 23 Bachelors, 4 Masters
STUDENTS IN RESIDENCE: 69 Geography and Urban & Regional Planning Majors, 12 Masters
CHAIR: Bruce D'Arcus
DEPARTMENT ADMINISTRATIVE ASST: Debra C. White

FOR FURTHER INFORMATION WRITE TO: *A.B. in Geography:* Mary C. Henry; *A.B. in Urban and Regional Planning:* David L. Prytherch; *Graduate:* Marcia England, Department of Geography, Miami University, Shideler Hall, Oxford, Ohio 45056. Telephone (513) 529-5010. Fax (513) 529-1948.
E-mail: geography@MiamiOH.edu.
Internet: www.MiamiOH.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:
The department offers five academic programs. Four undergraduate programs include majors and minors in both Geography and Urban and Regional Planning. The department also offers an undergraduate and graduate level Certificate in GIScience. The Master of Arts in Geography is a broadly conceived professional curriculum for students intending to pursue doctoral study or a professional career in the public or private sector. The 36-hour program consists of three parts: a common core in geographical methods and research; individualized courses reflective of student needs and departmental expertise; and a thesis or internship. Students are encouraged to take coursework in cognate disciplines. In addition, Geography faculty are participants in an interdisciplinary PhD program in Ecology, Evolution, and Environmental Biology.

The Geography Department at Miami University has comprehensive GIScience computing facilities to support instruction and research in geography. These facilities include one 26-seat state of the art GIS and remote sensing focused computer lab with ESRI, ENVI, ERDAS, and Idrisi spatial analysis software installed.. The department also has an additional 26 seat instructional computer lab for teaching courses with geospatial content. The Geospatial Analysis Center (GAC) is also housed within the Geography Department. The Center is home to instruction, research, and contract work related to geospatial technologies. The University has field research facilities to support environmental research at the Ecology Research Center and other sites. An endowment provides significant support for students' research expenses.

Undergraduate majors may take coursework in Miami University's European Center in Luxembourg. The department also has ties to Universities of Ghana & Nairobi.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: *Academic Plan:* Semester System. *Admission Requirements:* High school record, ACT and/or SAT scores, and recommendation of the high school. *Financial Aid:* Contact the Office of Student Financial Aid. The Department offers four awards: an award for the Outstanding New Geography Major, The Arthur "Art" Limbird award for the Outstanding Sophomore in Geography, The Henry M. Kendall Award for the Outstanding Junior in Geography, and the Richard G. Lieberman Award for the Outstanding Senior in Geography.

Graduate: *Academic Plan:* Semester System. *Admission Requirements:* Bachelor's degree from an accredited college or university; cumulative minimum grade point average of 2.75 (of a possible 4.0); departmental approval. *Financial Aid:* Graduate assistantships: the 2014-2015 stipends are $15,273 plus remission of 93% of the comprehensive fee and the full out-of-state tuition surcharge (if applicable) for the length of their appointment. Of this annual stipend, $13,473 is received during the nine-month academic year and the balance of $1,800 is for Graduate Summer Fellowships (G.A.s must apply for the latter). All G.A.s must pay the technology fee, the transit fees, Armstrong Center fees, and facilities fees ($638 for 2015-2016). *Grants-in-aid:* Tuition.

FACULTY:
Bruce D'Arcus, Ph.D., Syracuse, 2001, Associate Professor and Chair — political and cultural geography, social theory, public space
Hays Cummins, Ph.D., Texas A&M, 1984, Professor — reconstruction of past ecological communities in marine systems and understanding ecological change, particularly the impacts of global change on coral reefs
Marcia England, Ph.D., Kentucky, 2006, Associate Professor — Access to public space, media and popular culture, geographies of the body
Jerry E. Green, Ph.D., North Carolina, 1976, Associate Professor — physical, land use analysis, soils, map interpretation, air photo interpretation, & Historical North America
Bartosz Grudzinski, Ph.D., Kansas State, 2014, Assistant Professor – human-environmental interactions, watershed processes, and land use impacts on aquatic ecosystems
Mary C. Henry, Ph.D., Arizona, 2002, Associate Professor — biogeography, remote sensing, fire ecology, landscape ecology
Ziying Jiang, Ph.D., Clark University, 2010, Assistant Professor, Middletown campus — land change science, GIS, remote sensing
John K. Maingi, Ph.D., Arizona, 1998, Associate Professor — remote sensing, GIS, and forest ecology
Kimberly E. Medley, Ph.D., Michigan State, 1990, Professor — ecological and cultural biogeography, conservation, gender analysis, landscapes
Roxanne Ornelas, Ph.D., Minnesota, 2007, Associate Professor, Department of Geography and Women's, Gender, and Sexuality Studies Program — Indigenous peoples geographies, human rights, public policy, environment, and feminist theory
David L. Prytherch, Ph.D., Arizona, 2003, Professor — urban, political, and cultural geography; urban planning & sustainability; Europe and North America
James M. Rubenstein, Ph.D., Johns Hopkins, 1975, Professor — planning, automotive industry, urban policy analysis, economic
Damon Scott, Ph.D., University of Texas at Austin, 2008, Lecturer, Geography and American Studies — Urban historical geography, gender and sexuality, urban planning history, cultural landscape change
Yelizaveta Skryzhevska, Ph.D., Idaho, 2007, Associate Professor, Hamilton campus — human and social geography, regional development, GIS, Eastern Europe including post-Soviet countries
Stanley W. Toops, Ph.D., Washington, 1990, Associate Professor, Geography and International Studies — East Asia, Inner Asia, development, ethnicity, tourism
Ian E.A. Yeboah, Ph.D., Calgary, 1994, Professor, Geography — globalization, urbanization, migration, poverty, and Sub-Saharan Africa

VISITING/ADJUNCT FACULTY:
Susan Jakubowsky, Ph.D., University of Cincinnati, 2014, Visiting Assistant Professor — civic engagement, legal geography, public space
Eunmok Lee, Ph.D., University of Kansas, 2014, Visiting Assistant Professor – Land use/land cover change, GIS, remote sensing & cartography

AFFILIATED FACULTY AND STAFF:

Robbyn Abbitt, MS, University of Idaho, 1999, GIS Coordinator, GISP — natural resource management, conservation, local land use planning, water resources and food accessibility

EMERITI FACULTY:

Robert S. Bacon, Ph.D. (Psychology), Nebraska, 1955, Ph.D. (Geography), Colorado, 1975, Professor Emeritus
John C. Klink, Ph.D., Minnesota, 1974, Professor Emeritus
Howell C. Lloyd, Ph.D., Northwestern, 1964, Professor Emeritus
William H. Renwick, Ph.D. Clark, 1979, Professor Emeritus
Richard V. Smith, Ph.D., Northwestern, 1957, Professor Emeritus
Joseph T. Urell, Ph.D., University of Cincinnati, 1972, Professor Emeritus
Cyrus W. Young, Ph.D., Michigan State, 1974, Professor Emeritus

THE OHIO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1907
GRADUATE PROGRAM FOUNDED: 1907
DEGREES OFFERED: B.A., B.S., M.A., Ph.D. in Geography, M.S., Ph.D. in Atmospheric Sciences
DEGREES GRANTED SU14-SU15: M.A. in Geography (5); M.S. in Geography (3); Ph.D. in Geography & Atmospheric Sciences (13)
UNDERGRADUATE MAJORS: 379
CHAIR GEOGRAPHY: Morton E. O'Kelly
GRADUATE STUDIES CHAIR: Becky Mansfield
GRADUATE PRORAM COORDINATOR: Caitlin Naber
UNDERGRADUATE STUDIES CHAIR: Mat Coleman
UNDERGRADUATE ADVISOR: Brooke Raake
DIRECTOR ATMOSPHERIC SCIENCES: Jay S. Hobgood

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Professor Becky Mansfield (Graduate Studies Chair, 614-247-7265 email: mansfield.32@osul.edu; Professor Mathew Coleman (Undergraduate Studies Chair, 614-292-9686, email: coleman.373@osu.edu); Professor Jay Hobgood (Director, Atmospheric Sciences Program, 614-292-3999, e-mail: hobgood.1@osu.edu); Department of Geography, The Ohio State University, 1036 Derby Hall, 154 North Oval Mall, Columbus, Ohio 43210-1361, phone 614-292-2514; Fax: 614-292-6213, e-mail: geography@osu.edu; Departmental Website: www.geography.osu.edu; Department Facebook Page: www.facebook.com/OSUGeography; Department Twitter: @OSUGeog

PROGRAMS AND RESEARCH FACILITIES: The programs of study at The Ohio State University focus on geography from conceptual and theoretical perspectives. The program is also strongly oriented towards the analysis of geographical problems. The department has chosen to specialize in selected areas in depth, with subfields in Urban, Regional, and Global Studies; GIS and Spatial Analysis; Atmospheric and Climatic Studies; and Environment and Society. Methodologically these include both quantitative and qualitative approaches as well as applied studies and the use of geographic information systems. Overall the program is intended to be flexible enough to provide the geographer with an appropriate background to undertake a career in academia, private industry, consulting firms, and government or research institutes. The graduate program in the Department of Geography at The Ohio State University offers training leading to Masters and PhD degrees in the following areas of specialization:

The study of **Urban, Regional and Global Studies** is a specialty in which The Ohio State University has excelled for many years. The Center for Urban and Regional Analysis, headed by Professor Harvey J. Miller, offers many new opportunities for faculty and graduate students to interact with each other and perform research. Research interests in this area include geographies of power, spatialities of difference, urban transportation, accessibility and mobility, dynamics of local and global economies, and critical research practices. Urban research focuses on identity politics and urban struggle, the governance of neoliberal life, geopolitics of the new immigration policy, patterns of daily spatial mobility, and gender issues in urban and transportation geography.

The primary focus of the **GIS and Spatial Analysis** core group is theoretical issues of GIScience and GIS applications to theoretical and substantive research questions. A common theme throughout much of the work in this area is the application of GIS-based spatial analysis and modeling. Applications of work being done include hub and spoke network analysis in air transportation, retail and interaction models, time geography, dynamics of crime, population growth, public health, social media, volunteered geographic information (VGI), as well as the role of GIS in gender research. Work is being done on new information technologies (IT) and individual access to them, on human cyberspatial cognition and behavior, as well as on network topology and accessibility of the internet.

The **Atmospheric and Climatic Studies** group specializes in work on all atmospheric spatial and temporal scales including involvement with observational, statistical, and modeling work. Current work includes synoptic-scale diagnostic studies of high latitude moisture budgets, large-scale modeling of climatic impacts on the Greenland and Antarctic ice sheets, and the role of ocean-atmosphere interactions in Arctic climate variability. Paleoclimatic work focuses on reconstruction of Earth's past climates from chemical and physical records within ice sheets and ice caps, including efforts to understand past behavior of the monsoons, sea ice, and even volcanic history. Other large-scale efforts examine synoptic type climatological variability over the U.S. and the role of sunshine variability on mean temperatures. On smaller scales, focus is on prediction of peak hurricane intensities, the dynamics of melting glaciers, and climate simulation. The department houses the office of the State Climatologist and several faculty are affiliated with the Byrd Polar and Climate Research Center.

These cores are linked in the **Environment and Society** concentration, which integrates human and physical geography approaches to focus on human-environment interactions. Faculty investigates these links at multiple scales in varied settings. Recent research topics include human dimensions of global environmental change and its impacts; reconstruction of past environmental change; political ecology of tropical and temperate forests; environment-development issues in Latin America; and environmental health issues.

Research is supported by an excellent library system housing 3.8 million volumes, 2.3 million microforms and 200,000 sheet maps. Current serial subscriptions number 28,000 and include virtually all journals of value in geographic research. A computer-based library circulation system, accessible from student offices, provides access to catalog data and availability of materials as well as literature searches.

The department supports laboratories for work in cartography, GIS, weather analysis, and spatial analysis. The atmospheric sciences laboratory maintains one of the most popular computer weather servers in the country, available at http://twister.sbs.ohio-state.edu, providing national and local forecasts, satellite and Doppler radar imagery, and other products. A large number of meteorological instruments and recording devices are available for boundary layer climate studies. Computer facilities include the State of Ohio Supercomputer Center's Cray S, an IBM mainframe, various

departmental PCS and workstations, and the Center for Mapping. The Center for Urban and Regional Analysis (CURA) is housed within the Geography Department. CURA serves as a catalyst for interdisciplinary research on urban and regional topics, as a resource for data and analysis, and as a link for outreach to the Columbus community.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: Undergraduate students who major in geography, atmospheric sciences, geographic information science, or air transportation enroll in the College of Arts and Sciences and earn a Bachelor of Arts or Science degree. Admission application forms, college bulletins, and financial aid information are available at: http://undergrad.osu.edu/. The Undergraduate Admissions and First Year Experience office is located in the Student Academic Services Building, 281 W. Lane Ave, Columbus, Ohio 43210, (614) 292-3980.

High school students should apply for admission as soon as possible after August 1st of their senior year. Nov. 1st is the deadline for early action and priority consideration for merit scholarships and Honors and Scholars Programs. The Department of Geography offers five majors: BA Geography with specializations in Environment & Society and Urban, Regional, & Global Studies; BS Geography with specializations in Climatic Studies, Physical Geography, and Spatial Analysis; BS Atmospheric Sciences; BS Geographic Information Science; and BA Social Science Air Transportation. The courses within each major comprise the minimum 30 credit hours required for any major program, and students must earn at least a C- in each course. In addition to completing the major program, students must complete the General Education Curriculum of the Colleges of the Arts and Sciences. A minimum cumulative point-hour ratio of 2.0 in all courses is required for graduation.

Graduate: Research skills are assessed in the Master's program by means of a thesis or research paper. Coursework includes a small group of core courses emphasizing theoretical understanding and quantitative skills. The doctoral program is designed intentionally to permit advanced graduate students the flexibility to pursue their specialized interests. Work in related disciplines is encouraged and PhD minor topics in other departments are possible in certain cases. Admission Requirements: Minimal grade point average of 3.0 (A=4.0) or equivalent for all applicants. All applicants must take the Graduate Record Examination. While there is no required score for admission, competitive applicants will score in the 75th percentile or above on the combined verbal and quantitative sections, and a 3.5 or above on the analytical writing. Foreign applicants must also take the TOEFL and achieve a score above 88 for admission. Financial Aid: Teaching and research associateships are available. Nine month stipends are competitive across peer institutions and include tuition waivers for both resident and non-resident students. Summer teaching and research support is available for qualified students. Additional sources of funding include University Fellowships. Applicants wishing to be awarded a University Fellowship should submit their application by December 13th (international student deadline is November 30th). Applicants requesting research and teaching funding are encouraged to complete admission procedures by January 15th. Further details on degree requirements, admissions procedures, and financial aid are available on request.

ATMOSPHERIC SCIENCES PROGRAM: The Atmospheric Sciences Program (ASP) is designed to provide students with a basic foundation in the physical principles, theory, methodological skills, and applications central to the disciplines of meteorology and climatology. For details on the graduate and undergraduate programs see http://asp.osu.edu.

FACULTY:
Ola Ahlqvist, Ph.D., Stockholm University, 2001, Associate Professor—geo-visualization, semantics, uncertainty, spatial analysis, social media, map games
David Bromwich, Ph.D., Wisconsin, 1979, Professor—polar meteorology and climatology, numerical modeling
Mathew Coleman, Ph.D., UCLA, 2005, Associate Professor—political geography
Stavros Constantinou, Ph.D., Kent State, 1982, Associate Professor (OSU, Mansfield Campus, Ohio)
Nancy Ettlinger, Ph.D., Oklahoma, 1984, Professor—critical theory, culture and economy, urban-social, governance
Jay Hobgood, Ph.D., Ohio State, 1984, Associate Professor and Director, Atmospheric Sciences Program—dynamics, tropical cyclones, climatology
Jialin Lin, Ph.D., SUNY-Stony Brook, 2001, Associate Professor—global climate change, climate modeling and climate dynamics
Desheng Liu, Ph.D., UC-Berkeley, 2006, Associate Professor—remote sensing, GIS, spatial statistics, land use and land cover change
Kenneth Madsen, Ph.D., Arizona State, 2005, Assistant Professor (OSU, Newark Campus, Ohio)
Edward J. Malecki, Ph.D., Ohio State, 1975, Professor—urban, rural and regional development, economic, technological change
Becky K. Mansfield, Ph.D., Oregon, 2001, Professor—nature-society relations; neoliberalism, scale, and the state; health and environment
Bryan Mark, Ph.D., Syracuse, 2001, Associate Professor—climatology, quaternary environmental reconstruction, tropical glaciers, hydrology, water resources, and geo-spatial modeling
Kendra McSweeney, Ph.D., McGill, 2000, Professor—cultural and political ecology, rural livelihoods, demography, conservation and economic development
Harvey Miller, Ph.D., Ohio State, 1991, Professor and Bob & Mary Reusche Chair in GIScience, Director of CURA—GIScience, spatial analysis, human mobility and accessibility, sustainable transportation, community livability, public health.
Alvaro Montenegro, Ph.D., Florida State, 2003, Assistant Professor—climate change, paleoclimatology, climate modeling
Ellen Mosley-Thompson, Ph.D., Ohio State, 1979, Distinguished University Professor—climatology, glaciology, ice core paleoclimatology, tropical glacier retreat, polar processes
Darla Munroe, Ph.D., University of Illinois, 2000, Professor—economic, land use change
Morton O'Kelly, Ph.D., McMaster, 1981, Professor and Chair—locational analysis, quantitative analysis, transportation
Elizabeth Root, Ph.D., University of North Carolina, 2009, Associate Professor—medical geography, spatial epidemiology, quantitative methods
Gregory S. Rose, Ph.D., Michigan State, 1981, Associate Professor and Dean (OSU Campus, Marion, Ohio)
W. Randy Smith, Ph.D., York, 1978, Associate Professor and Vice Provost—urban, regional urban systems, urban historical
Daniel Sui, Ph.D., University of Georgia, 1993, Distinguished Professor of Social & Behavioral Sciences and Chair—GIScience, urban geography, geographic thought, social media, public health.
Joel Wainwright, Ph.D., Minnesota, 2003, Associate Professor—development, social theory, political ecology
Max Woodworth, Ph.D., UC-Berkeley, 2013, Assistant Professor—urban China, Taiwan, neoliberalism
Ningchuan Xiao, Ph.D., Iowa, 2003, Associate Professor—GIScience, spatial analysis, geovisualization and cartography, spatial decision support systems

EMERITUS FACULTY:
William V. Ackerman, Professor Emeritus
A. John Arnfield, Professor Emeritus
Emilio Casetti, Professor Emeritus
Victor Colombini, Associate Professor Emeritus
Kevin R. Cox, Professor Emeritus

Howard L. Gauthier, Professor Emeritus
Robert D. Klingensmith, Professor Emeritus
Duane F. Marble, Professor Emeritus
Yuri Medvedkov, Professor Emeritus
Harold Moellering, Professor Emeritus
Joel L. Morrison, Professor Emeritus
John N. Rayner, Professor Emeritus
Jeffrey C. Rogers, Professor Emeritus

OHIO UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1969
DEGREES OFFERED: B.A., B.S., M.A., M.S.
GRANTED 7/1/14-6/30/15: 31 Bachelors, 7 Masters
STUDENTS IN RESIDENCE: 127 Majors, 21 Masters
CHAIR: James M. Dyer
ADMINISTRATIVE COORDINATOR: Patti Malloy

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Chair, Undergraduate Committee; or Chair, Graduate Committee, Department of Geography, Ohio University, 122 Clippinger Labs, Athens, Ohio 45701-2979.
Telephone: (740) 593-1140. Fax: (740) 593-1139.
E-mail: dyer@ohio.edu. Internet: www.ohio.edu/geography

PROGRAMS AND RESEARCH FACILITIES:
Ohio University offers undergraduate students either a B.A. or a B.S. degree. In addition to the Geography major, undergraduate students may choose to follow one of several structured programs for a more specialized degree. These include Environmental Geography, Meteorology, Geographic Information Science (GIS), Environmental Pre-Law, Urban Planning and Sustainability, and Globalization & Development. The department also offers both undergraduate and graduate certificates in Geographic Information Science. Admission requirements are listed on the Ohio University web page (www.ohio.edu); information about programs of study can be found on the department's web page.

The department grants the M.A. and M.S. degrees with a thesis and a non-thesis option. Faculty strengths include physical (biogeography, geomorphology, climatology, meteorology), sustainable planning and resource management, urban, development studies, globalization, feminist/gender geography, agriculture/land use, cultural-historical, population, and applied information technology (cartography, remote sensing, GIS). The department maintains strong ties with the Environmental Studies, International Studies (Latin America, Asia, Africa), and Women's, Gender, and Sexuality Studies programs. Graduate Catalog information and online application forms can be accessed from the Graduate College web site at www.ohio.edu/graduate/.

Departmental facilities supporting undergraduate and graduate research include a Geographic Technologies Laboratory supporting advanced information technologies, instruction in GISc and automated mapping. A remote sensing facility supports teaching and research in digital image processing. The Scalia Laboratory for Atmospheric Analysis supports teaching and research in climatology, meteorology, and forecasting. Other laboratory facilities include Carl Ross Geomorphology Research Laboratory, and the Long-Term Social and Ecological Research Laboratory. Ohio University's Alden Library and the OhioLINK catalog provide students access to an extensive number of journals in geography and allied fields, books, and maps.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Academic Plan: semesters. Admission Requirements for Graduate Study: Baccalaureate degree in geography or a related field and a grade point average of 3.0 (4.0 scale), Graduate Record Examination scores, letters of recommendation and personal statement of interest. Financial Aid: Graduate Assistantships are available on the basis of individual merit. These provide full remission of tuition and a stipend of approximately $12,850 for the nine-month academic year. Research assistant positions are available through faculty research grants. One graduate appointment is an associate in weather observations and forecasting. Assistantships typically are granted for a second year upon successful completion of the first year of study. The financial assistance application deadline is February 15.

FACULTY:
Timothy G. Anderson, Ph.D., Texas A&M, 1994, Associate Professor — cultural, historical, world systems, ethnicity
Geoffrey L. Buckley, Ph.D., Maryland, 1997, Professor — environmental, historical, mining landscapes, urban environments
James M. Dyer, Ph.D., Georgia, 1992, Professor and Chair — biogeography, landscape ecology, forest dynamics
Ryan Fogt, PhD., Ohio State, 2007, Associate Professor and Director of Scalia Laboratory for Atmospheric Analysis — polar meteorology and climatology, climate variability and change, stratosphere-troposphere interactions
Jana Houser, Ph.D., University of Oklahoma, 2013, Assistant Professor — observations of formation and evolution of tornadoes, supercell thunderstorms, radar studies, severe weather climatology, mesoscale meteorology
Brad D. Jokisch, Ph.D., Clark University, 1998, Associate Professor — cultural/political ecology agriculture, population, migration, Latin America
Yeong-Hyun Kim, Ph.D., Syracuse University, 1998, Associate Professor — globalization, economic geography, urban geography, Asia
James K. Lein, Ph.D., Kent State, 1986, Professor — environmental assessment, land resource analysis, applied physical, remote sensing, GIS
Amy Lynch, Ph.D., University of Pennsylvania, 2013, Assistant Professor — land use and environmental planning, green infrastructure, sustainable community strategies and indicators
Harold Perkins, Ph.D., Wisconsin-Milwaukee, 2006, Associate Professor — political ecology/economy of urban environments including neoliberalization, the state, governance, voluntarism, and the agency of nonhuman organisms
Dorothy Sack, Ph.D., Utah, 1988, Professor — physical geography, geomorphology, Quaternary studies, paleolakes, arid lands, history of geomorphology
Gaurav Sinha, PhD., University at Buffalo-SUNY, 2007, Associate Professor — geospatial ontology, environmental data modeling, landscape analysis, PPGIS,
Thomas A. Smucker, Ph.D., Michigan State, 2003, Assistant Professor — environment and development, land tenure systems, rural livelihood and coping strategies, African drylands
Elizabeth Edna Wangui, Ph.D., Michigan State, 2004, Associate Professor — gender, rural livelihoods and landscape change in East Africa
Risa Whitson, PhD., Pennsylvania State, 2004, Associate Professor of Geography and Women's and Gender Studies — gender and development, social geographies, informal sector, Argentina

AFFILIATED FACULTY:
Ana Mojica Myers, M.A., Ohio University, 2009, Visiting Instructor — cartography
Scott Reinemann, Ph.D., Ohio State University, 2013, Visiting Instructor — meteorology, paleoclimatology, biogeography
R. J. Shostak, J.D., University of Pittsburgh School of Law, 1996, Visiting Assistant Professor — environmental law

OHIO WESLEYAN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY
DATE FOUNDED: 1951
DEGREES OFFERED: B.A., Geography; Geology; Environmental Studies; Urban Studies
GRANTED 9/1/10-8/30/16: 32 Geography; 22 Geology; 41 Environmental Studies
MAJORS: 10 Geography: 10 Geology; 35 Environmental Studies; 1 Urban Studies
CHAIR: Barton Martin
DEPARTMENT ADMINISTRATIVE ASST: Barbara Williams

FOR CATALOG AND FURTHER INFORMATION CONTACT: Dr. John Krygier, Professor of Geography, Ohio Wesleyan University, Delaware, Ohio 43015.
E-mail: jbkrygier@owu.edu. Internet: geo.owu.edu

PROGRAMS AND RESEARCH FACILITIES:
Ohio Wesleyan University was founded in 1842 and geology courses were taught beginning in 1851. The geography program was created in 1951. Ohio Wesleyan University is a selective, coeducational liberal arts college of about 1700 students equally divided between men and women from the United States and 50 foreign countries. The geography program focuses on the inter-relationships between human societies and the natural environment and on the development and alteration of cultural landscapes. Specific research themes of the geographers include: human and cultural geography with an emphasis on globalism and the global south; mapping, GIS and remote sensing; climate, weather, and climate change; urban geography and urban studies; environmental geography; and environmental studies. The interdisciplinary Environmental Studies and Urban Studies programs are directed through the Geography program.

We have access to excellent paper and online resources through our Beeghly Library, The Ohio Five Consortium (OWU, Oberlin, Kenyon, Wooster and Denison) and OhioLink. The department has its own small research library, and a GIS computer lab for the exclusive use of majors. Many geography students study off-campus for a semester and engage in theory-into-practice and summer science research projects. The department stresses field work and independent research projects. A hallmark of Ohio Wesleyan's educational mission is its emphasis on involving students directly with ongoing faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. The college provides generous amounts of financial aid to academically qualified students; approximately 85 percent of the student body receives financial aid. Information regarding admissions requirements and financial aid may be obtained by contacting the Admissions Office, Ohio Wesleyan University, Delaware, Ohio 43015 (toll free 1-800-922-8953; E-mail: www.owu.edu/).

FACULTY:
Nathan Amador, Ph.D., Penn. State, 2014, Assistant Professor of Geography—climate, weather, glaciers, remote sensing
Karen H. Fryer,, Ph.D., Illinois, 1986, Professor of Geology—physical geology, structural geology, petrography, tectonics, field techniques
Richard Fusch, Ph.D., Oregon, 1972, Professor of Geography (emeritus)—cultural, urban geography/urban design, economic, changing Third World and contemporary American cultural landscapes
David H. Hickcox, Ph.D., Oregon, 1978, Professor of Geography (emeritus)—physical geography, weather/climate, human impacts on natural environments, resource management
John Krygier, Ph.D., Penn. State, 1995, Professor of Geography, Director of Environmental Studies—GIS/cartography/visualization, public participation GIS, map design & GIS, environmental geography, sustainability
Keith Mann, Ph.D., Iowa, 1987, Professor of Geology—historical geology, paleontology, hydrology, sedimentology/stratigraphy
Barton S. Martin, Ph.D. Massachusetts, 1991, Professor of Geology—physical geology, vulcanology, mineralogy, petrology, economic geology

SINCLAIR COMMUNITY COLLEGE

DEPARTMENT OF SOCIOLOGY, GEOGRAPHY, AND SOCIAL WORK
DATE FOUNDED: circa 1971
DEGREES AND CERTIFICATES OFFERED: GIS certificate, Associate Degree in Geography, Applied Associate Degree in Geospatial technology, Liberal Arts Degree with concentration in Geography
CHAIR: Dona Fletcher
DEPARTMENT ADMINISTRATIVE ASSISTANT: Lynn Amann

FOR FURTHER INFORMATION CONTACT: Department of Sociology, Geography, and Social Work, 444 West Third Street, Dayton, OH 45402-1460.
Telephone (937) 937 512-2944 lynn.amann@sinclair.edu

PROGRAMS AND RESEARCH FACILITIES: Sinclair offers introductory human, regional, physical geography courses as well as geography of the Middle East. Our offerings in GIS include introduction to GIS, cartography, and advanced spatial analysis. The Geospatial and Social Research Center includes a classroom with 20 computers and a separate lab with 10 computers. Students and faculty in GIS have opportunities to connect with local industry and government through service learning projects, internships, field trips, and one-on-one mentoring.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Sinclair's strong belief in access and affordability is reflected in the fact that its Montgomery County students pay the lowest tuition rates in the state of Ohio. Sinclair uses a semester system. Students may enroll full or part time and courses are available on the main Dayton campus, Courseview Campus Center (Mason, OH), Englewood Learning Center, Huber Heights Learning Center, Preble county Learning Center, and Wright-Patterson Air Force Base Center as well as SinclairOnline. Any person 18 years or older can apply to Sinclair Community College for admission. Post Secondary Enrollment Options are also available. Further information is available at http://www.sinclair.edu/admissions/.

GEOGRAPHY FACULTY:
Jacqueline Housel, Ph.D. State University of New York at Buffalo, 2007, Associate Professor of Geography and GIS — GIS, urban geography, race and ethnicity
Mohsen Khani, MA, University of Western Michigan, 1992, Professor of Geography — political and physical geography

ADJUNCT FACULTY:
Ginger Einhorn, GISP
Tom Harner, GIS Coordinator at Miami Valley Regional Planning Commission
Lance Lemonges, PhD, University of Florida
Nicollette Staton, MA

UNIVERSITY OF CINCINNATI

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1907
GRADUATE PROGRAM FOUNDED: 1931
DEGREES OFFERED: B.A., B.S., M.A., Ph.D.
GRANTED 8/1/2013-05/20/2016: 14 Masters, 11 Ph.D.
STUDENTS IN RESIDENCE: 12 Masters, 28 Ph.D.
CHAIR: Dr. Hongxing Liu

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Changjoo Kim, Director of Graduate Program in Geography, Department of Geography, University of Cincinnati, Cincinnati, Ohio 45221-0131. Tel: (513) 556-3424. E-mail: changjoo.kim@uc.edu. Web page: http://www.artsci.uc.edu/departments/geography.html

PROGRAMS AND RESEARCH FACILITIES: The Department covers three key research areas of the discipline of geography: 1) Geographic Information Science (GIS, remote sensing, cartography, GPS, environmental sensor networks, geo-computation, and space geoinformatics); 2) Physical-environmental geography (with emphases on field instrumentation, soils, geo-archaeology, environmental studies, hydrology, water resources, geomorphology, cryosphere studies, planetary geomorphology, climatology, and biogeography); and 3) Urban and human geography (with emphases on location analysis, health and medical geography, crime analysis, land change science, regional economic development, population dynamics, and political geography).

The UC geography program is one of the most comprehensive and top-ranked geography programs in the nation. Our program has been highly rated by the National Research Council (NRC) and Academic Analytics in the past decade. The department has enjoyed an international reputation for offering rigorous and effective training and education to students interested in pursuing an advanced degree in a variety of geographic topics. The strength of our department is reflected by a large amount of external research funding from NSF, NASA, USGS, USEPA, DoD, USACE and other agencies, extensive publications of scholarly work in leading academic journals, and our ability to attract top-caliber students with various educational backgrounds and diverse research interests. The Ph.D. program is restricted to research specializations compatible with faculty expertise. The Master's degrees can be obtained with thesis or non-thesis option in two years. Many of our students have won national academic competitions and various awards in recent years. The department prepares our students well for the current job market with strong technical and analytical skills, and has a strong record of success in graduate placement. The job and career opportunities that our students have secured and enjoyed include a growing number of university professors, GIS analysts, specialists for environmental consulting firms, planners (health and regional planning), location analysts, computer cartographers, and various government agencies at local (e.g. planning, zoning, utilities and public works, garbage collection analysis, and land ownership and valuation), state (e.g. natural resource management, highways and transportation), and federal (e.g. natural disaster management, homeland security, geospatial intelligence, military operations, law enforcement) levels.

The Department houses three dedicated computer laboratories with high-end computer workstations and which are equipped with various GIS, remote sensing, statistics, simulation, and modeling software packages. The Department maintains a broad range of software packages for use by faculty and grad students. These include general productivity software (e.g. MS Office), GIS and Remote Sensing software (e.g. ArcGIS, ENVI, eCognition, IDL, SUFFER), visual and online course design software (e.g. Camtasia, Adobe Illustrator, Creative Suite, Photoshop), statistical analysis software (e.g. SPSS, SAS), and other software (e.g. BASINS, HSPF, MatLab, AnyLogic, etc). Besides high-end computer workstations, servers, storage RAIDs, color printers, plotters, and scanners in our computer labs, the department also has various geospatial instruments. Those include YSI 6600V2-4 Multiparameter Water Sondes, Turner Designs Cyclops-7 Submersible Sensors, ASD FieldSpec Spectroradiometer, GARMIN GPSMAP-62stc, Trimble Pathfinder ProXH GPS Receiver, Hydra Probe II Soil Moisture Sensors, Davis Automated Weather Stations, LAI-2200 Plant Canopy Analyzer, and other instruments are also available for teaching relevant courses and student research. The department also operates a Geospatial & Environmental Sensor Networks (GIESN) lab, a Space Geoinformatics lab, a Soil lab, an Environmental Study lab, watershed hydrology lab, health and medical geography lab, and a Physical Geography lab. Graduate students have access to these labs for their research work.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Applications for admission to the geography program of the Division of Graduate Studies, or for financial aid, can be obtained by going to our website (http://www.artsci.uc.edu/departments/geography.html) and following the link to the on-line application form. GRE scores are required for all applicants. In addition, TOEFL scores are required for international students whose native language is other than English. Financial aid includes Graduate Teaching Assistantships, Graduate Research Assistantships, Tuition Scholarships, CAGIS Internships, Graduate School Dean's Fellowship, etc. More detailed information can be found in the department webpage.

FACULTY:

Richard A. Beck, Ph.D., University of Southern California, 1995, Associate Professor—Geographical information networks, GIS, Remote Sensing, Climate Change, South Asia

Ishi D. Buffam, Ph.D., Swedish University of Agricultural Sciences, 2007, Assistant Professor—aquatic ecosystem and landscape ecology; jointly appointed between Biology and Geography Departments

Xi Chen, Ph.D., University of Central Florida, 2014, Assistant Professor—Hydrology, water resources, environmental studies and modeling, physical geography, environmental engineering

Diego F. Cuadros, Ph.D., University of Kentucky, 2011, Assistant Professor—Medical and health geography, GIS applications in epidemiology, environmental studies, mathematical modeling of infectious diseases, host-pathogen and pathogen-pathogen interactions, health economics assessment

Nicholas P. Dunning, Ph.D., University of Minnesota, 1990, Professor—Environmental archaeology, soils, physical geography, cultural ecology, Latin America

Wendy R. Eisner, Ph.D., University of Utrecht, Netherlands, 1999, Professor—Paleoecology, paleoclimatology, Arctic system science, human impacts on the environment, human cultural evolution

Changjoo Kim, Ph.D., Ohio State University, 2004, Associate Professor and Graduate Program Director—GIS, location analysis, urban-economic geography, urban transportation, health geography

Hongxing Liu, Ph.D., Ohio State University, 1999, Professor and Head of Department—Remote sensing, GIS, sensor network, modeling, hydrology, cryosphere, terrain analysis, hazards

Lin Liu, Ph.D., Ohio State University, 1994, Professor—GIS, geographic visualization, quantitative methods, location analysis, crime mapping and analysis, geo-simulation, China

Kevin Raleigh, Ph.D., University of South Carolina, 2006, Educator Associate Professor—urban-economic geography, political geography, quantitative techniques

Robert B. South, Ph.D., University of Maryland, 1972, Associate Professor and Undergraduate Program Director—economic geography, regional economic development, Latin America

Tomasz F. Stepinski, Ph.D., University of Arizona, 1986, Thomas Jefferson Endowed Chair Professor—Space Informatics,

planetary geomorphology, land change science, remote sensing, GIS

Susanna Tong, Ph.D., Sheffield, 1980, Professor—watershed hydrology, water resources management, environmental geography, heavy metal contamination, urban ecology, China

Amy Townsend-Small, Ph.D., The University of Texas at Austin, 2006, Assistant Professor—Biogeochemistry, sources and fluxes of methane, carbon and nitrogen cycling; Jointly appointed between Geology and Geography Departments

EMERITUS FACULTY:

Kenneth M. Hinkel, Ph.D. Geology, University of Michigan, 1986, Professor Emeritus and McMicken Scholar—climatology, geomorphology, physical geography, computer cartography, Polar Regions

Roger M. Selya, Ph.D., University of Minnesota, 1971, Professor—Economic development of East Asia, population, medical geography

Wolf Roder, Ph.D., University of Chicago, 1965—Economic development of Africa, environmental and resource management, quantitative techniques

K. Bruce Ryan, Ph.D., Australian National University, 1966—Australia, urban-historical, recreation

Howard A. Stafford, Ph.D., University of Iowa, 1960—Industrial location decision-making, manufacturing, urban and marketing geography, location theory

Lawrence Wolf, Ph.D., Syracuse University, 1966—Historical geography, political, cartography, Europe

ADJUNCT FACULTY:

David Shuey, MCP, University of Cincinnati, 1995—GIS

Sunhee Sang, Ph.D., The.Ohio.State.University, 2009—GIS, urban and economic geography

Michael Troyer, Ph.D., University of Cincinnati, 1999—Human-environment interface, GIS.

Chris Carr, Ph.D., University of Cincinnati, 2014, Research Assistant Professor—human impacts on the natural environment, geoarchaeology, remote sensing, Latin America

THE UNIVERSITY OF TOLEDO

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1963
MASTER OF ARTS PROGRAM FOUNDED: 1970
PhD PROGRAM FOUNDED: 2009
DEGREES OFFERED: B.A., M.A., PhD.
GRANTED 2014-2015: 5 Bachelors, 2 Masters, 4 PhD
STUDENTS IN RESIDENCE: 19 Majors, 15 Masters, 15 PhD
NOT IN RESIDENCE: 5 Masters
CHAIR: Patrick L. Lawrence
ASSISTANT TO THE DEPARTMENT CHAIR: Tammy Golkiewicz

FOR FURTHER INFORMATION WRITE TO: Dr. Patrick Lawrence, Chair Department of Geography and Planning MS 140, The University of Toledo, 2801 W. Bancroft St., Toledo, Ohio 43606-3390. Telephone (419) 530-4128 or (419) 530-2545 Fax (419) 530-7919 (c/o Department of Geography and Planning).
E-mail: Patrick.Lawrence@utoledo.edu
Internet: www.utoledo.edu/llss/geography/

PROGRAMS AND RESEARCH FACILITIES: The department's undergraduate and graduate curricula are designed to provide theoretical and technical skills necessary for future academic and nonacademic careers. A wide selection of courses and seminars allows students to sculpture individualized programs within the range of faculty interests, offered curriculum, and contemporary geographical issues and problems.

Undergraduate and graduate students choose an area of specialization from the following list: Geographic Information Science and Remote Sensing, Economic Geography, Community and Urban Planning, Environmental Geography/Planning, and Cultural and Behavioral Geography. Students choose from courses and seminars offered in other campus programs to supplement their instruction and broaden their perspective. In addition, each graduate experience is further enhanced by our graduate internship program featuring paid internships in local/regional agencies and firms.

Offerings by the department are accentuated by a state-of-the-art Center for Geographic Information Science and Applied Geographics (GISAG), a spatial analysis teaching laboratory, a remote sensing laboratory, and the Lake Erie Center for Research and Education. Students have convenient access to campus, local and regional reference and research libraries, media centers, and computer clusters.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate Program: Semester system with a three-session summer semester. A college preparatory high-school program is required with possible admission based on completion of noncredit makeup courses. Scholarships and financial aid are available, especially for state residents.

MA Program: The program is on the semester system. All students must complete a minimum of 36 hours of approved study including a six-semester hour thesis. There is a comprehensive examination for admittance to candidacy. Also required is either appropriate supervised teaching assistant experience or a planning internship. For most students, two academic years are needed to complete the program. Applicants should hold a bachelor's degree in geography or a related field. Others are admitted who are willing to take additional appropriate work. Usually a student will present a GPA of at least 2.7 (4.0 scale) and must score satisfactorily on the Graduate Record Examination. Graduate teaching and research assistantships, University and other fellowships, and remunerative graduate planning internships are available to most qualified applicants.

PhD Program: Spatially Integrated Social Science—A program designed around the application of geographic information science, spatial statistics, spatial econometrics and spatial analysis to study the spatial dimension of human and social dynamics, including interaction of individuals and society, government and market participants. Applicants should hold a master's degree in a social science discipline with a minimum of one course in multivariate statistics and two courses in geographic information systems. The Graduate Record Examination is required for admission. All students must complete 36 hours of approved study and 24 dissertation hours. Graduate teaching and research assistantships, University and other fellowships are available to most qualified applicants.

FACULTY:

Bhuiyan M. Alam, Ph.D., 2005, Florida State University, Associate Professor—Urban and Regional Planning

Frank J. Calzonetti, Ph.D, University of Oklahoma, Professor/Vice President, Government Relations—GIS, Economic Development

Kevin P. Czajkowski, Ph.D., 1995, University of Michigan, Professor—Climatology, Remote Sensing, Hydrology

Sharon L. Gaber, Ph.D., Cornell University, Professor, University President—Urban and Regional Planning

Daniel J. Hammel, Ph.D., 1994, *University of Minnesota, Professor*—Urban and Regional Planning, Human Geography

Patrick L. Lawrence, Ph.D., 1996, University of Waterloo, Professor and Chair—Environmental and ecosystem planning, environmental applications in remote sensing, coastal and

shoreline management land use/growth management, natural resource planning

Neusa Hidalgo-Monroy McWilliams, Ph.D., 1996, University of California, Berkeley, Lecturer—Latin America

David J. Nemeth, Ph.D., 1984, University of California, Los Angeles,, Professor—Cultural, Asia, Architecture and Ideology, Informal Economies

Neil Reid, Ph.D., 1991, Arizona State, Professor—Industrial Geography, Economic Geography, Economic Development

M. Beth Schlemper, *Ph.D., 2000, University of Wisconsin-Madison*, *Associate Professor*—Cultural and Historical, Human Geography

Sujata Shetty, Ph.D., 2002, *University of Michigan*, *Associate Professor*—Urban Planning,

Yanqing Xu, Ph.D., 2014, Louisiana State University, Assistant Professor—GIS, Medical/Health Geography

EMERITI FACULTY:

Eugene N. Franckowiak, Ph.D., Michigan, 1973, Professor Emeritus and Research Professor—Cartography, Latin America especially Andean America, environmental perception

Frank E. Horton, Ph.D., Northwestern, 1966, President Emeritus, Professor Emeritus—Transportation, urban geography

Peter S. Lindquist, Ph.D., 1988, University of Wisconsin-Milwaukee, Professor Emeritus—GIS, Digital Cartography, Location Theory, Transportation

Donald W. Lewis, Ph.D., Ohio State, 1966, Professor Emeritus—Neighborhood revitalization, environmental planning and resource management, Anglo-America

William A. Muraco, Ph.D., Ohio State, 1971, Research Professor and Professor Emeritus—Economic (especially location theory), urban, quantitative research methods

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1940
GRADUATE PROGRAM FOUNDED: 1947
DEGREES OFFERED: B.A., B.S., M.S., Ph.D. (Geography), B.S. (Geospatial Information Science)
GRANTED AY 2015-2016: 10 Bachelors, 8 Masters, 2 Ph.D.
STUDENTS IN RESIDENCE: 36 Majors, 8 Masters, 21 Ph.D.
HEAD: Dale R. Lightfoot
DEPARTMENT ADMINISTRATIVE ASST: Ann Adkins

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Emily Williams, Graduate Secretary, 337 Murray Hall, Oklahoma State University, Stillwater, Oklahoma 74078-4073.
Telephone (405) 744-6250. Fax (405) 744-5620.
E-mail: emily.c.williams@okstate.edu.
Internet: www.geog.okstate.edu.

PROGRAMS AND RESEARCH FACILITIES: Programs of study lead to bachelors, masters and doctoral degrees in Geography and the Bachelor of Science in Geospatial Information Science. The Department also sponsors students in the university's interdisciplinary Environmental Science M.S. and Ph.D. program. Students can earn a Certificate in Geographic Information Systems concurrently with their graduate or undergraduate degree in geography. Coursework is oriented toward problem solving skills and techniques and considerable leeway is granted the student with respect to the selection of course offerings within and outside the Department. Students may generalize, or develop plans of study to accommodate specialties in one of the Department's three areas of emphasis: (1) *Resource Management:* Faculty interests focus on agriculture, transportation, atmospheric/surface modeling, outdoor recreation management, soils, water, and the economics and policy of resource allocation and use. The application of GIS methodologies in addressing resource management problems is especially encouraged. (2) *Cultural and Historical Geography:* The Department has a longstanding tradition of research in cultural geography. Areas of faculty expertise include the geography of sport, language, traditional technology, and Native Americans. Faculty are also involved in research projects related to historic preservation, urban history, geoarchaeology, and cultural and political ecology. (3) *Urban and Transportation Geography:* The Department has long supported studies in the cultural and economic impact of urban places and the development and structure of urban places in the Great Plains and American South. Faculty interests in transportation focus on the economic impacts of transportation infrastructure and the development of transport/logistics databases and end-user transport applications of GIS. Specialized degree plans are available in the following tracks: (1) Outdoor Recreation and Resource Management; (2) People, Place, Society; (3) Global Studies; and (4) Environmental Change and Sustainability. The Certificate in Geographic Information Systems can be added to any of these degree options.

Research and travel experience give faculty strength in several geographic regions, especially Central Asia, Australia, Latin America, and the Middle East. Two international journals are edited by Department faculty: the *Journal of Cultural Geography* and the *Journal of Central Asian Studies*. In addition to academic careers, the Department's applied orientation prepares students for careers in government, business, and industry. Internship opportunities are available in both the private and public sectors.

Located in a remodeled historic building at the south entrance to campus, the Department provides space for faculty and graduate offices, two GIS training facilities, a physical geography laboratory, the Keso Seminar Room, and a palynology/paleoecology research laboratory. Two campus centers are managed by the Department: the OSU Cartography Service, a full-service production cartography facility, and the Center for Applications of Remote Sensing which includes UAV/UAS equipment and expertise for remote sensing instruction and research. The University Library has substantial geography and periodic holdings as well as map, aerial photography and documents collections, and the department's Drummond Map Library holds additional special collections. Students and faculty also have access to surface weather data reported by automated stations of the Oklahoma Mesonetwork in a near-real-time GIS environment. The Department's computer facilities are equipped with 32 instructional computers, a large format color scanner, 11x17 color printer, and two large format color printers capable of E-size printing. These labs are available for digital cartography (Adobe Illustrator, Corel Draw), the Global Positioning System (Trimble's Pathfinder Office), geographic information systems (ESRI's ArcGIS - ArcInfo), and remote sensing (ERDAS, ENVI, IDRISI, and AgiSoft 3-D modeling).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: Students may earn a B.A. or B.S. degree in Geography or a B.S. in Geospatial Information Science. Forty-five semester hours of coursework are required for either major. Students must earn a 2.5 GPA (4.0 basis) in their selected major in order to graduate. Various scholarships, travel grants, internships, and work-study assistance programs are available. The Department has scholarships for an outstanding junior, an undergraduate travel scholarship, as well as several scholarship awards for graduate students. Students can also elect to earn a certificate in Geographic Information Systems (GIS) or a minor in Geography.

Graduate: The Department offers the M.S. and Ph.D. degrees in geography. We maintain specialties in resource management, cultural and historical geography, and urban and transportation geography. Specific plans of study are tailored to individual student interests within these specialties. The M.S. degree usually requires two academic years (four semesters) and admission is predicated on submission of academic transcripts, GRE scores, and letters of reference from persons familiar with the student's academic performance and potential. The thesis option requires 30 semester hours of coursework, including the thesis, while the non-thesis alternative requires 36 hours and completion of a creative component project. In addition to the M.S. requirements, the Ph.D. degree requires a minimum of 60 credit hours. Admission requirements include a completed M.S. degree or equivalent and demonstration of research potential through the completion of a M.S. thesis or equivalent. The Departmental Graduate Committee accepts admissions applications throughout the year and will render decisions on admission and/or funding as soon as practical.

Certificate in GIS: Admission to the certificate program in GIS is open to any student enrolled as an undergraduate, graduate student, or special student at OSU. To earn the certificate a student must complete nine hours of prerequisite coursework, a minimum of 12 credit hours of coursework in GIS and related subjects, and have completed a bachelor's degree from OSU or another accredited college or university. Additional information about the Certificate in GIS can be obtained by writing to the department.

Financial Aid: Masters teaching and research assistantships carry monthly stipends of $1,203.00 and Doctoral Teaching Associate and research positions carry a monthly stipend of $1,553.00. All assistantships include a waiver of out-of-state tuition, plus all tuition waived up to the amount needed for the degrees (30 for MS and 60 for PhD; up to 12 hours per semester). Summer assistantships may also be available.

FACULTY:

Brad A. Bays, Ph.D., Nebraska, 1996, Associate Professor—historic preservation, historical GIS, Native Americans, agricultural history, Great Plains, Oklahoma

Jonathan C. Comer, Ph.D., Ohio State, 1994, Professor—location analysis, wireless communications, rural transportation, quantitative methods

Carlos Cordova, Ph.D., Texas, 1997, Professor—Quaternary paleoecology, geomorphology, geoarchaeology, Great Plains, Middle East, Black Sea region, southern Africa

Emily Fekete, Ph.D., Kansas, 2015, Clinical Assistant Professor—economic geography, consumption, social media, internet

G. Allen Finchum, Ph.D., Tennessee, 1992, Associate Professor—urban, GIS, sport, population geography, United States/American South

Amy E. Frazier, Ph.D., University at Buffalo, 2013, Assistant Professor—remote sensing, landscape ecology, natural resource management, human-environment interactions, spatial analysis

Alyson L. Greiner, Ph.D., Texas, 1996, Professor—cultural, historical, history of geography, folk architecture and historic preservation, necrogeography, Europe, Australia/Pacific

Reuel R. Hanks, Ph.D., Kansas, 1993, Professor—political, ethnic, Central Asia, Russia

Peter Kedron, Ph.D., University at Buffalo, 2012, Assistant Professor—new industrial landscapes, sustainability, renewable energy, regional economic development, foreign direct investment, spatial analysis

Dale R. Lightfoot, Ph.D., Colorado, 1990, Professor and Head—natural resource management, water resources, historic water technology, cultural ecology, North Africa/Middle East/Central Asia

Hung-Ling (Stella) Liu, Ph.D., Oklahoma State, 2012, Research Assistant Professor—recreation management, leisure behavior, tourism in recreation settings

Adam J. Mathews, Ph.D., Texas State, 2014, Assistant Professor—GIS, remote sensing, unmanned aerial vehicles, lidar, wine

Rebecca A. Sheehan, Ph.D., Louisiana State, 2006, Associate Professor—cultural, historical, tourism, public space, homelessness, identity, community, alternative spaces and places

Stephen J. Stadler, Ph.D., Indiana State, 1979, Professor —applied climatology, wind power, remote sensing

Jacqueline Vadjunec, Ph.D., Clark, 2007, Associate Professor—human dimensions of global environmental change, people, trees and forests, common property resource management, cultural and political ecology

Thomas A. Wikle, Ph.D., Southern Illinois, 1989, Professor and Associate Dean—resource management, public lands, wireless communication systems

I-Chun (Nicky) Wu, Ph.D., Michigan State, 2014, Research Assistant Professor—recreation, tourism, sustainability, GIS

Hongbo Yu, Ph.D., Tennessee, 2005, Associate Professor—transportation geography, GIS, time geography

STAFF AND AFFILIATED FACULTY:

Clay Barrett, M.S., Oklahoma State, 2015, GIS Specialist/Cartography Service

Michael P. Larson, M.S., Oklahoma State, 2003, Coordinator, OSU Cartography Service

Jing Wang, M.S., Clark, 2013, Coordinator, Center for Applications of Remote Sensing

John F. Rooney, Jr., Ph.D., Clark, 1966, Regents Professor Emeritus—sport and recreation, geo-demographics, United States

Matthew Tueth, Ph.D., Oklahoma State, 2000, Adjunct Assistant Professor—natural resources, state and national parks recreation management

UNIVERSITY OF CENTRAL OKLAHOMA

DEPARTMENT OF HISTORY AND GEOGRAPHY
DATE FOUNDED: 1968
DEGREE OFFERED: B.A.
GRANTED 1/1/10-12/31/10: 12
MAJORS: 25
CHAIR: Patricia Loughlin
DEPARTMENT ADMINISTRATIVE ASSISTANT: Annamaria Martucci

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Brad Watkins, University of Central Oklahoma; Department of History and Geography; 100 N. University Dr.; Edmond, OK 73034. Telephone: (405) 974-5277. Fax: (405) 974-3823. E-mail: bwatkins8@uco.edu. Internet: http://www.uco.edu/la/history-geography/

PROGRAMS AND RESEARCH FACILITIES: A major consists of 36 semester hours in geography. All geography majors take courses in introductory, thematic, and regional geography. Major requirements allow for students to select most of their courses in order to meet specific career goals and professional interests. A geography minor requires 18 semester hours. Geography students receive a high level of personalized attention in a rigorous academic setting. Classes do not exceed 40 members, and are typically smaller in number. The department also houses a GIS lab for students wishing to develop technical skills. Faculty members regularly interact with students during field experiences and less formal occasions.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: This program is conducted on the semester system (fall, spring, summer). Admission to the University of Central

Oklahoma is determined by a combination of high school class rank, GPA, and ACT or SAT scores. Students can become geography majors by declaring so upon admission or by consulting with a departmental faculty member after arriving on campus. University of Central Oklahoma students are eligible for a variety of grants, scholarships, and loans through the university's financial aid office. More information can be obtained by contacting the Office of Admissions, Enrollment Services; University of Central Oklahoma; 100 N. University Dr.; Edmond, OK 73034; http://www.uco.edu/future.htm.

FACULTY:

Michelle Brym, Ph.D., Tennessee, 2009, Assistant Professor—cultural geography, population geography, Europe

Brad W. Watkins, Ph.D., Oklahoma State, 2007, Assistant Professor—applied GIS, historical GIS, environmental geography

ADJUNCT AND EMERITI FACULTY:

Shannon Hall, Ph.D., University of Oklahoma, 2015, Lecturer—cultural geography, quantitative geography, North America, Oklahoma

UNIVERSITY OF OKLAHOMA

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SUSTAINABILITY
DATE FOUNDED: 1946
GRADUATE PROGRAM FOUNDED: 1930
DEGREES OFFERED: B.A., B.S., M.A., Ph.D. in Geography; B.A., B.S. in GIS; and B.A., B.S., M.S. in Environmental Sustainability, Graduate Certificate in Geospatial Information Technologies.
GRANTED 9/1/14-8/31/15: 53 Bachelors, 7 Masters, 1 Ph.D.
STUDENTS IN RESIDENCE: 234 Bachelors, 18 Masters, 22 Ph.D.
CHAIR: Kirsten de Beurs
DEPARTMENT ADMINISTRATIVE ASSISTANT: Deborah Marsh

FOR CATALOG AND FURTHER INFORMATION CONTACT: General Information: Dr. Kirsten de Beurs, kdebeurs@ou.edu Graduate Program: Dr. Laurel Smith, Graduate Liaison, laurel@ou.edu; Undergraduate Program: Ms. Jamie Steele, Undergraduate Advisor, jamie@ou.edu; Department of Geography and Environmental Sustainability, 100 E. Boyd St., SEC 510, University of Oklahoma, Norman, Oklahoma 73019-1007. Telephone (405) 325-5325.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Environmental Sustainability offers undergraduate degrees in Geography (B.A., B.S.), Geographic Information Science (B.A., B.S.) and Environmental Sustainability (B.A., B.S), a master's degree (M.S.) in environmental sustainability, as well as graduate (M.A., Ph.D.) degrees in geography.

Course offerings and research opportunities in Geography are concentrated in three major areas of specialization: human geography and geohumanities, physical geography, and geospatial sciences, including GIS and remote sensing. Research emphases within human geography include cultural geography, political geography, and political ecology. Within physical geography, faculty research emphasizes work in biogeography, climatology, geomorphology, and hydrology. Research in remote sensing and geographic information systems emphasizes integrated geospatial technologies for analyzing the effect of humans and climate on the global vegetative land surface. All Environmental Sustainability students take a common set of six core courses to give them strong grounding in the principles of environmental sustainability. Subsequently, students may specialize in one of three areas of concentration. These are: *Sustainability Science and Natural Resources*. This concentration focuses on the physical environmental or ecosystem aspects of sustainability as well as the forces impacting on it. *Sustainability Planning and Management*. This concentration focuses on how organizations and institutions perceive, adopt, and implement sustainability programs and practices. *Sustainability, Culture, and Society*. This concentration focuses on the human dimensions of sustainability, including the dynamics driving the perception and management of sustainability in different societies and cultures around the world.

Regional research specialties of the faculty include North America (especially the Southwest and Great Plains), Latin America, South Asia, West Africa, and Europe/Russia.

The Department strongly encourages faculty-student collaboration in research and teaching and emphasizes strong mentoring relationships with graduate and undergraduate students. Affiliate centers include The Oklahoma Alliance for Geographic Education (OKAGE), the Oklahoma Wind Power Initiative (OWPI) and the Center for Spatial Analysis (CSA). The many resources of the University include the National Weather Center, the Oklahoma Climatological Survey, the Oklahoma Biological Survey, the Oklahoma Geological Survey, the Western History Collections, the NASA Space Grant Consortium, and the History of Science Library. The University also hosts the South Central Climate Science Center

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates with two semesters and a summer session. Graduate teaching and research assistantships are available to qualified doctoral and master's students. In addition, individual faculty members support students from research grants and contracts. Other scholarships and financial aid packages are available from University sources.

An application for admission must be accompanied by official transcripts, two letters of recommendation, official GRE scores, and a statement of research interests and goals. Graduate applicants are strongly encouraged to identify and contact potential research advisors. Applicants for graduate assistantship positions should submit application materials by January 15 in order to ensure consideration for the next academic year.

FACULTY:

Kirsten de Beurs, Ph.D., University of Nebraska--Lincoln, 2005, Associate Professor and Chair—impacts of humans and climate on global vegetative land surface, phenology, remote sensing, GIS.

Nicholas Bauch, Ph.D., University of California – Los Angeles, 2010, Assistant Professor—geohumanities.

Travis Gliedt, Ph.D., University of Waterloo, Canada, Assistant Professor—environmental economic geography, strategic green decisions in organizations, green entrepreneurship, sustainable development, energy systems and sustainability.

J. Scott Greene, Ph.D., University of Delaware, 1994, Professor—synoptic and applied climatology, climate change, renewable energy.

Gary Gress, Ph.D., University of Oklahoma, 2000, Lecturer and Coordinator of the Oklahoma Alliance for Geographic Education—cultural geography, geographic education

Bruce Hoagland, Ph.D., University of Oklahoma, 1995, Professor and Oklahoma Natural Heritage Biologist—landscape ecology, plant community ecology, biogeography

Jennifer Koch, Ph.D., University of Kassel, Germany, 2010, Assistant Professor—regional and continental scale land use land cover change and use, ecological modeling, multi-agent simulation, GIS

Rebecca Loraamm, Ph.D., University of South Florida, 2015, Assistant Professor—GIS, time geography, location modeling,

suitability modeling, network analysis, road ecology, wildlife ecology and management.

Renee McPherson, Ph.D., University of Oklahoma, 2003, Associate Professor—regional and applied climatology, mesoscale meteorology, land-air-vegetation interactions, climate variability and change, surface weather observing systems

Mark Meo, Ph.D., University of California, Davis, 1983, Professor—strategic policy innovation and social learning, corporate environmental management, clean fuels and sustainable energy systems, climate policy

Hernan Moreno, Ph.D., Arizona State University, 2012, Assistant Professor—watershed processes, hydrologic modeling, flood forecasting, hydrologic effects of land cover and climate change.

Thomas Neeson, Ph.D., University of Michigan, 2010, Assistant Professor—conservation biology, landscape ecology, freshwater ecosystems, simulation and modeling, statistics

Darren Purcell, Ph.D., Florida State University, 2003, Associate Professor—political geography, critical geopolitics, social media and space, humor

Robert A. Rundstrom, Ph.D., University of Kansas, 1987, Associate Professor—cultural geography, historical geography, indigenous peoples, United States

Mark Shafer, Ph.D., Oklahoma,2005, Assistant Professor—hazard preparedness and mitigation, adaptation to climate change, local and state government, use of scientific information in policy decisions, climate services

Fred M. Shelley, Ph.D., University of Iowa, 1981, Professor—political geography, cultural geography, North America

Laurel C. Smith, Ph.D., University of Kentucky, 2005, Associate Professor—geopolitics of knowledge production, indigenous peoples, cultural geography, the Americas

Aondover A. Tarhule, Ph.D., McMaster University, Canada, 1997, Associate Professor—hydroclimatology, hydrology, water resources

Bret Wallach, Ph.D., UC–Berkeley, 1968, Professor—cultural geography, regional studies

Jadwiga Ziolkowska, Ph.D., Humboldt University of Berlin, 2007, Assistant Professor—environmental economics, water and energy economics, Biofuels and renewable energy, Decision making under uncertainty, Sustainability and climate change, mathematical methods and programming.

EMERITUS FACULTY:
Marvin W. Baker, Jr.
L. Dee Fink
Richard L. Nostrand
Neil E. Salisbury
Hans-Joachim W. Spaeth
Stephen M. Sutherland
Gary L. Thompson

OREGON

CHEMEKETA COMMUNITY COLLEGE

SOCIAL SCIENCE PROGRAM
DATE FOUNDED: 1970
DEGREES OFFERED: A.A. Geography
SOCIAL SCIENCE PROGRAM DEAN: Don Brase
PROGRAM ADMINISTRATIVE ASSISTANT: Angie Ross
FOR CATALOG AND FURTHER INFORMATION WRITE TO: Social Science Program, Chemeketa Community College, 4000 Lancaster Dr. NE, Salem, OR 97305. (503) 399-5051, www.chemeketa.edu.

PROGRAMS AND RESEARCH FACILITIES:
Chemeketa Community College offers approximately one dozen transferable courses in Geography and several in G.I.S.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Chemeketa Community College operates on a quarter system. Any person 18 years or older may enroll in Chemeketa classes.

FACULTY:
Steve Wolfe, M.A., University of Missouri-Columbia, 1993—Oregon, Physical, Natural Hazards, Middle East, U.S. & Canada, World Regional

ADJUNCT FACULTY:
Megan Cogswell, M.S., Oregon State University—Cultural, Economic
Lori Cole, M.A., California State University-Chico—Cultural

OREGON STATE UNIVERSITY

COLLEGE OF EARTH, OCEAN, AND ATMOSPHERIC SCIENCES (CEOAS)
DATE FOUNDED: 1946 (Geography); 1989 (Geosciences); 2012 (CEOAS)
GRADUATE PROGRAM FOUNDED: 1952
DEGREES OFFERED: Earth Science (Geography Option) B.S.; Geography M.A, M.S., Ph.D.
DIRECTOR OF GEOCRAPHY: Julia A. Jones
DEPARTMENT ADMINISTRATM ASST: Stacey Schulte

FOR FURTHER INFORMATION WRITE TO: Stacey Schulte, Administrative ftogram Assistant, College of Earth, Ocean,6nd Atmospheric Sciences, Oregon State University, lM CEOAS Admin Building, Corvallis, Oregon 97331-5503.
Telephone (541) 737-1201. Fax (541) 7371200.
E-mail sacev.schulteAoreqonstate.edu
lntemet: httpr/ceoas.oreponstate.edu.edu,/academics

PROGRAMS AND RESEARCH FACILITIES: Undergraduate students can obtain an option in Geography as part of the Earth Sciences major. The option includes coursework in physical geography, geography of resources, planning and hazards; GIScience and regional geography/globalization, as well as field experiences and training in basic geographic techniques.

Graduate studies and research in Geography include three areas of excellence:

Geospatial technologies and analysis: Many careers in geography involve geospatial technologies and analysis applied to research, teaching. government and industry. Geography at OSU helps graduate students to obtain an integrated training in GlS, cartography, remote sensing, geovisualization, geospatial intelligence, spatial statistics and modeling, and web mapping. Students may pursue this area of study as part of the MA, MS, or PhD in Geography. Graduate students also can obtain a GIS certificate.

Water, climate, and society: Access to water resources is essential for human health and societies, yet water resources are unevenly distributed in space and time, while climate variability and change may intensify conflicts over water. Geography at OSU helps graduate students to obtain an integrated training in surface processes, climatology, biogeography, water policy, and w6ter management. Students may pursue this area of study as part of the MA, MS, or PhD in Geography. Graduate students also can obtain an online certificate in water conflict.

Resources, planning, and hazards: Natural resources, planning, and hazards are ideal topics for geographic study because they link physical processes governing natural hazards with factors such as social vulnerability, planning and resource management. Many aspects of these issues have a strong regional focus. Geography at OSU helps graduate students to obtain an integrated training in the geography of resources, land use, and rural and regional resource evaluation. Students may pursue this area of study as part of the MA, MS, or PhD in Geography

Program facilities include an instructional computer lab, GIS capable computer classrooms, enhanced digital projection classrooms, and remote sensing, GIS, geovisualization and geospatial intelligence research laboratories. In addition, the Corallis community is home to an EPA Laboratory and U.S Dept. of Agiculture and U. S. Forest Service facilities that are active in GIS, remote sensing and spalial modeling rcsearch, which provides additional opponunities for work and research for many stud€nts. Research and leaching assistantships are competitively awarded to well qualified students. One foreign lsnguage is required for aPh.D. degree. Masters students may elect either a thesis or a non-thesis option.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND TNANCIAL AID:

Undergraduate: Admission requirements: 3.00 high school GPA or University approved alternatives. Transfer must have GPA of 2.25 (2.50 for nonresidents). Quarter system. Financial aid: Scholarships, grants, loans and part time employment (http://oregonstate.edu/admirrfinaid).

Graduate: Admission requirements: 3.00 GPA on entire baccalaureate or on last 90 quarter credits (60 semester credits) and a 4-year baccalaureate degree from an accredited college or university, and three letters of recommendation. GRE required. Quarter system. Financial aid. Tuition waivers. Teaching and research assistantships. Completed application must be received by January 5 for Fall Term admission & TA/RA consideration

FACULTY:

Laurence Becker, PhD, London School of Oriental and African Studies, 1989, Professor—agricultural food systems, development, Africa

Lorene Yokoyama Becker, MS, University of Wisconsin-Madison, 1999—geographic information systems and sustainability

Michael E. Campana, PhD, Arizona, 1975, Professor—hydrology, transboundary water resource issues, water allocation and availability

Steve Cook PhD, University of Florida, 1995, Senior Instructor—environmental sustainability

Hannah Gosnell, PhD, Colorado, 2000, Associate Professor—land use, biodiversity, conservation, water resources

Demian Hommel. PhD, Oregon, 2009, Instructor—cultural geography, natural hazards

Shireen Hyrapiet, PhD, Oklahoma State, 2012, Instructor—political ecology, disaster management, cultural geography

Todd Jarvis, PhD, Oregon State University, 2006, Assistant Professor (Senior Research)—water resources conflict resolution, groundwater

Julia A. Jones, PhD, Johns Hopkins, 1983 Professor—landscape ecology, spatial statistics, hydrology, informatics

Robert E. Kennedy, PhD, Oregon State University, 2004, Assistant Professor—geospatial analysis and remote sensing

Anne Nolin, PhD, UC Santa Barbara, 1993, Professor—remote sensing, snow and ice in the climate system

Mary V. Santelmann, PhD, Minnesota I988, Associate Professor (Senior Research)—biogeography, biodiversity, ecology, plant physiology

Jenna Tilt, PhD, University of Washington, 2007, Assistant Professor (Senior Research) —urban ecology, rural and regional planning

Jamon Van Den Hoek, PhD, University of Wisconsin-Madison, 2012, Assistant Professor—remote sensing, conflict ecology, land use/land cover

James Watson, PhD, University of California-Santa Barbara, 2011, Assistant Professor—complex adaptive social-ecological systems (expected start date fall 2017)

Aaron T. Wolf, PhD, Wisconsin, 1992, Professor—water resources, policy and planning, Middle East geopolitics

David Wrathall, PhD, Kings College London, 2011, Assistant Professor—human dimensions of natural hazards (expected start date fall 2016)

Bo Zhao, PhD, Ohio State University, 2015, Assistant Professor—geovisualization (expected start date fall 20l6)

GEOCRAPHY COURTESY FACULTY:

Christopher Daly, PhD, Oregon State University, 1994, Professor—climate mapping' PRISM

Jim Graham, PhD, Colorado State University, 2006, Assistant Professor (Humboldt State University)—GIS, geospatial programming

Sean Fleming, PhD, University of British Columbia, 2004, Assistant Professor—hydroclimatology

Gordon Grant, PhD, Johns Hopkins, 1986, Professor (US Forest Service PNW Station) —fluvial geomorphology

Steven W. Hostetler, PhD, Oregon, 1988, Associate Professor, Research (USCS) —regional climate modeling, hydrology

Heather Lintz, PhD, Oregon State University, 2010, Assistant Professor, Senior Research—statistical ecology, climate change, plant phenology

Sarah Shafer. PhD, Oregon, 2000, (Project Chief, USGS)—species and ecosystem response to projected future climate change

Denis R. White. MA, Boston University, Research Assistant—geographic analysis and synthesis

Dawn Wright, PhD, UC. Santa Barbara 1994, Courtesy Professor—geographic information systems and spatial analysis, marine geography, informatics and cyberinfrastructure, geographic information science in higher education

PORTLAND STATE UNIVERSITY

GEOGRAPHY DEPARTMENT
DATE FOUNDED: 1959
GRADUATE PROGRAM FOUNDED: 1969
DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D. (Earth, Environment, & Society), Graduate GIS Certificate
GRANTED 9/1/2014-8/31/2015: 30 Bachelors, 8 Masters, 28 GIS grad certificates, 18 Geography Minors, 17 GIS Minors
STUDENTS IN RESIDENCE: 167 Majors, 32 Masters, 61 GIS grad certificates, 60 Geography Minors, 88 GIS Minors, 8 Water Resource Minors
CHAIR: Heejun Chang, Ph.D.
DEPARTMENT ADMINISTRATOR: Andrea Celentano

FOR FURTHER INFORMATION WRITE TO: Geography Department, Portland State University, P.O. Box 751, Portland, Oregon 97207-0751. Telephone (503) 725-3916. Fax (503) 725-3166. E-mail: geog@pdx.edu. Internet: www.pdx.edu/geography

PROGRAMS AND RESEARCH FACILITIES:
The Geography Department at Portland State University (PSU) links environmental studies and cultural studies in programs centered on environmental issues, social and cultural landscapes, sustainability in urban and natural areas, and geographic information science. Coursework emphasizes systematic and regional approaches to understanding the physical environment and human-environment interactions. Techniques classes (in GIS, remote sensing, spatial analysis, and cartography) provide the tools to analyze complex local, regional, and global phenomena. PSU's location in downtown Portland, with easy access to the Pacific Coast, the Cascade Mountains, and the Willamette Valley, provides ample opportunity for field work-based classes and field work opportunities for research in urban, rural, and wilderness sites. Numerous local, state, and federal agencies are within walking or driving distance, providing opportunities for applied research in a wide variety of areas. Faculty engage in local, regional, and international research projects in hydrology, water resources, ecosystem services, biogeography, climate change, sustainable resource use, land use analysis, cultural and political ecology, the urban environment, geographic education and geographic information science.
Areas of concentration include:

Environmental Geography and Natural Resource Management:
The examination of environmental change and human influences on natural resources; conservation, cultural and political ecology, environmental ethics and resource management are also department interest areas.

Spatial Analysis, Data Representation, and Technology:
Techniques for the measurement, collection, analysis, and display of spatial data. Areas of emphasis include cartography, scientific visualization, geographic information systems, remote sensing, global positioning systems, data mining, knowledge discovery, and quantitative methods.

Physical Geography: The natural environment of the earth as a set of interrelated systems. Geographic specialties include hydrology and water resources, climatology, geomorphology and soils, biogeography, and alpine environments.

Cultural and Human Geography: The role of culture and the built and natural environment in informing human behavior and shaping places in urban, rural, and overseas locations. Faculty interests include: analysis of place and landscape, cultural and political ecology, rural landscapes, urban morphology, and urban natural areas.

Regional Analysis and International Studies:
Focus on the distinctive character of various regions of the world, particularly how nature and society have interacted over time to shape places and landscapes. Regions of particular interest include East Asia, South Asia, Central and South America, Europe, and North America.

Research and teaching facilities within the department include an instructional laboratory featuring networked Windows workstations, two ArcGIS servers, a large format plotter, scanners, and printers. The Department's Center for Spatial Analysis & Research (CSAR) supports research and teaching in cartography, GIS, remote sensing, and quantitative analysis. A GIS/Cartography research lab is also available for graduate student project use. Additional computing facilities for teaching and research are available throughout the campus. A campus-wide ESRI site license provides access to ArcGIS and related spatial-analysis extensions. Other software packages in the lab include ENVI, Adobe Illustrator, Google Sketchup Pro, and Pathfinder Office. The department also supports student use of a variety of open-source graphics and statistical software. Physical geography facilities include equipment for the field and laboratory analysis of soils, water, and tree rings. The University Library houses a map and atlas collection in addition to its nearly 1,000,000 volumes.

The department cooperates with interdisciplinary graduate programs on campus, including the Earth, Environment, and Society Ph.D. program in the School of the Environment (SOE) and the MAT/MST program in Social Science. The SOE doctoral program offers courses in resource management, geographic information science, physical geography, and human geography. The Geography Department also offers the Graduate Certificate in Geographic Information Systems.

Graduate students are provided with shared office space and facilities for both research and interaction with faculty and other students. Research opportunities for graduate students are varied. PSU's urban location provides many opportunities for internships with numerous federal, state, and local agencies in Portland. Students may be involved in faculty research projects. There are two student groups: Friends of Geography (FOG) and a student chapter of the American Society for Photogrammetry and Remote Sensing (ASPRS).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: PSU follows the quarter system. Incoming students begin in the fall term. For admission to graduate study a student should normally have completed the minimum preparation for an undergraduate major in geography with a 3.0 average in all undergraduate work. Students with majors in other fields are encouraged to apply if they can demonstrate the ability to pursue graduate work in geography. Students seeking the M.A. degree must demonstrate their competence in the use of a foreign language for geographic research; those preparing for an M.S. degree must show proficiency in advanced techniques in geography. Students in the M.A. program must complete a thesis. Those in the M.S. program may choose between thesis and non-thesis (research paper) options. The department has a limited number of assistantships and scholarships, and awards will be given based on each student's merit. Students interested in the Earth, Environment, and Society Ph.D. through the School of the Environment should contact the faculty member with whom they would like to work.

FACULTY:
Sona Andrews, PhD, Arizona State University, 1981, Provost and Vice President for Academic Affairs, Professor of Geography
David Banis, M.S., Portland State University, 2004, Associate Director of Center for Spatial Analysis & Research (CSAR) and Adjunct Instructor—applied GIS, map design, cultural geography, natural resource management

Barbara Brower, Ph.D., University of California-Berkeley, 1987, Professor—resource policy, mountain peoples and environments, pastoralism, highland Asia, American West, cultural ecology

Teresa L. Bulman, Ph.D., University of California-Davis, 1990, Professor—research in geography education; teaching in climate and water resources

Heejun Chang, Ph.D., Pennsylvania State University, 2001, Professor and Chair—hydrology and water resources, climate change impact assessment, hydrologic ecosystem services, stream restoration, visual spatial analysis, GIS applications in hydrology and water resources

Britt Crow-Miller, Ph.D., University of California, Los Angeles, 2013, Assistant Professor—environmental politics, development, political ecology, water resources, China

Jiunn-Der (Geoffrey) Duh, Ph.D., University of Michigan, 2004, Associate Professor—geographic information systems theory and application, remote sensing, land use and land cover change

Andrés Holz, Ph.D., University of Colorado, Boulder, 2009, Assistant Professor—forest dynamics, disturbance ecology, climate-fire-human relationships

Martin Lafrenz, Ph.D., University of Tennessee, 2005, Associate Professor—geomorphology and water resources, land use change, geographic information systems

Paul Loikith, Ph.D., Rutgers University, 2012, Assistant Professor—Regional climate and climate change, climate and weather extremes, climate model analysis

Hunter Shobe, Ph.D., University of Oregon, 2005, Assistant Professor—cultural and urban geography

Martin Swobodzinski, Ph.D., San Diego State University/University of California-Santa Barbara, 2012, Assistant Professor and Director of Center for Spatial Analysis & Research (CSAR)—behavioral geography, geographic information science, human-computer interaction, individual decision making, public participation, transportation

RESEARCH AND AFFILIATED FACULTY:

Michael C. Houck, M.S.T., Portland State University, 1972, Urban Naturalist, Audubon Society of Portland; Director, Urban Greenspaces Institute; Loeb Fellow, Harvard University, 2003-04—urban wildlife, wetlands, growth management

Nathan McClintock, Ph.D., Geography, University of California, Berkeley, 2011—urban agriculture and food systems, urban political ecology, critical urban geography

Rebecca McLain, Ph.D., Forest Management*, University of Washington, 2000*—natural resource governance and tenure, community-based participatory mapping, and socioeconomic assessment.

Scott Nowicki, Ph.D. Geological Sciences, Arizona State University, Tempe, 2006—Research interests: remote sensing and GIS, environmental monitoring, instrument development.

Tim Palmer, B.S., The Pennsylvania State University, 1971—landscape architecture, rivers, landscape photography

Colin Thorne, Ph.D., University of East Anglia, U.K., 1978—river science, fluvial geomorphology

EMERITI FACULTY:

Daniel M. Johnson, Ph.D., Arizona State University, 1977, Professor Emeritus—climatology, hydrology, resource management

D. R. Lycan, Ph.D., Washington, 1964, Professor Emeritus—demography, GIS, Canada

Joseph Poracsky, Ph.D., University of Kansas, 1984, Professor Emeritus—cartography/geographic visualization, applied GIS and remote sensing, urban natural areas/urban forest

Larry W. Price, Ph.D., Illinois, 1970, Professor Emeritus—geomorphology, biogeography, periglacial environments, mountains

Martha A. Works, Ph.D., Louisiana State University, 1985, Professor Emeritus—Latin America, cultural geography, agriculture and food supply, rural sustainable development

UNIVERSITY OF OREGON

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1920s
GRADUATE PROGRAM FOUNDED: 1923
DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.
GRANTED 9/1/14-8/30/15: 109 Bachelors, 12 Masters, 2 Ph.D.
STUDENTS IN RESIDENCE: 101 Majors, 15 Masters, 21 Ph.D.
HEAD: Amy Lobben
DEPARTMENT ADMINISTRATIVE ASST: Lisa Knox

FOR FURTHER INFORMATION WRITE TO: Administrative Assistant, Department of Geography, 1251 University of Oregon, Eugene, Oregon 97403-1251. Telephone (541) 346-4555.
Fax (541) 346-2067. E-mail: uogeog@.uoregon.edu.
Internet: geography.uoregon.edu.

PROGRAMS AND RESEARCH FACILITIES:
Research and graduate education in the Department of Geography focus on the subfields listed below:

Physical geography: Biogeography, climatology and climatic change, fluvial geomorphology, paleoecology, Quaternary studies.

Environmental studies: forest and ecosystem issues, river and watershed issues, biodiversity and global environmental change, policy and law.

Human geography: political-economic (especially international relations, territorial conflict, international development, globalization), cultural-social (especially historical geography, migration, race, ethnicity and identity, urban geography, gender studies and tourism), and human-environment relations (especially cultural/political ecology); and behavioral geography (especially spatial cognition, map use, and neuroimaging applications in behavioral research).

Geographic information science: cartography, GIS, data analysis and visualization, spatial analysis and modeling, and mapping for the blind and visually impaired.

Geographic education (especially teaching Advanced Placement and K-12 geography).

Regional geography: Africa, China, Europe, Latin American, the Middle East; and North America.

The Department houses the award-winning InfoGraphics Lab (http://infographics.uoregon.edu/), which focuses on integration of GIS and graphic design tools and techniques for map and atlas creation, interactive mapping, and visualization. The InfoGraphics Lab conducts a wide variety of research projects sponsored by government agencies and other organizations. The Department also maintains field equipment and wet labs in support of physical geography research. The University Library Map and Aerial Photography Collection has extensive holdings of digital, current, and historical maps and aerial photography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Quarter system. Admission Requirements: Lower division courses in the Department of Geography have no prerequisites. *Financial aid*: For questions regarding financial aid, scholarships, student loans, and work-study jobs, write: Office of Student Financial Aid and Scholarships, 1278 University of Oregon, Eugene, OR 97403-1278 or see financialaid.uoregon.edu.

The Department offers both B.A. and B.S. degrees in geography. The undergraduate program requires coursework in human, physical, regional geography, and geographic information science. Degrees require language training or a minimum of two terms of college-level mathematics.

GRADUATE: The Department selects for admission on the basis of a statement of purpose for pursuing graduate work, three letters of recommendation, GRE scores, and past academic records. Graduate Teaching Fellowships, which provide a stipend and cover out-of-state tuition, require assisting in courses, instructing a course, or working with a professor on a research grant. All non-native speakers of English must submit an IELTS or TOEFL score.

The Masters degree in Geography (M.A. or M.S.) focuses on developing a general understanding of the breadth of human and physical geography, and learning to do original research in a sub-field of geography. A thesis is required. The practice-oriented Masters of Science in Geography Education is aimed at secondary school teachers. Coursework for this degree includes breadth courses in human geography, physical geography and geographic information science, and a final masters project that develops a learning activity based on original research for use in schools.

The Ph.D. program in Geography requires specialization in one or more sub-fields supported by the Department, development of appropriate research skills and methodologies for the sub-field, and completion of a dissertation that represents an original contribution to knowledge. Ph.D. students are also expected to develop background across the breadth of human and physical geography, as required for the Masters degree. Although the Department requires knowledge of the fundamentals of geography, it welcomes graduate applications from students whose undergraduate work has been in other disciplines. A number of teaching/research assistantships and internship opportunities are available on a competitive basis.

FACULTY:

Patrick J. Bartlein, Ph.D., Wisconsin-Madison, 1978, Professor — climatology, data analysis and visualization

Christopher Bone, Ph.D., Simon Fraser, 2009, Assistant Professor — geographic information system science, spatial analysis and modeling

Daniel P. Buck, Ph.D., UC Berkeley, 2002, Associate Professor, Asian Studies — rural-urban relations, industrialization, political economy, China

Shaul E. Cohen, Ph.D., Chicago, 1991, Associate Professor — political and cultural geography, environmental, Middle East, Northern Ireland

Mark A. Fonstad, Ph.D., Arizona State, 2000, Associate Professor — geomorphology, hydrology, remote sensing, environmental simulation

Daniel G. Gavin, Ph.D., Washington, 2000, Associate Professor — biogeography, paleoecology

Leigh Johnson, Ph.D., UC Berkeley, 2011, Assistant Professor — political ecology, development, economic geography

Amy K. Lobben, Ph.D., Michigan State, 1999, Professor and Department Head — cartography, spatial cognition and abilities, GIS, neuroimaging

W. Andrew Marcus, Ph.D., Colorado, 1987, Professor— hydrology, fluvial geomorphology, remote sensing of rivers, Yellowstone and mountain environments

Patricia F. McDowell, Ph.D., Wisconsin-Madison, 1980, Professor — geomorphology, river management and restoration, Quaternary environments

James E. Meacham, M.A., Oregon, 1992, Senior Research Associate and Director, InfoGraphics Laboratory — cartographic design and production, geographic information systems

Katharine Meehan, Ph.D., University of Arizona, 2010, Associate Professor — urban sustainability, water policy

Alexander B. Murphy, Ph.D., Chicago, 1987, Professor — political and cultural geography, Europe, law and geography

Hedda R. Schmidtke, Ph.D., University of Hamburg, 2005, Assistant Professor — geographic information science, scale

Xiaobo Su, Ph.D. National University of Singapore, 2007, Associate Professor — cultural landscape, tourism, identity, China

Peter A. Walker, Ph.D., UC Berkeley, 1997, Professor — cultural and political ecology, human-environmental relations, Africa

EMERITI FACULTY:

Stanton A. Cook, Ph.D., UC, Berkeley, 1960
Carl L. Johannessen, Ph.D., UC Berkeley, 1959
Clyde P. Patton, Ph.D., UC Berkeley, 1953
Alvin W. Urquhart, Ph.D., UC Berkeley, 1962
Ronald Wixman, Ph.D., Chicago, 1978

PENNSYLVANIA

BUCKNELL UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1940
DEGREES OFFERED: B.A.
GRANTED 9/1/14-8/31/15: 6 Bachelors
MAJORS: 20
CHAIR: Adrian Mulligan
DEPARTMENT ACADEMIC ASSISTANT: Kim DiRocco

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Adrian Mulligan, Department of Geography, Bucknell University, Lewisburg, Pennsylvania 17837.
Telephone (570) 577-1949, Fax (570) 577-3536.
Email: amulliga@bucknell.edu.
Internet: www.bucknell.edu/Geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography emphasizes critical spatial thinking concerning human-environment relations, political economy of global restructuring, sustainable development, social and special justice, and political, cultural and social geography at a range of scales –focusing in particular on gender, race, and nationalism. Regional emphases include North America, Latin America, and Europe. The department's strengths are complemented by its association with the Department of International Relations, the Environmental Studies Program, and a number of study-abroad programs, for example Bucknell in Nicaragua and Bucknell in Northern Ireland, in addition to its location that offers diverse field research opportunities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Two semesters. For information on admissions and financial aid, contact the Office of Admissions, Freas Hall, Bucknell University, Lewisburg, Pennsylvania 17837.

FULL AND PART-TIME FACULTY:

Duane A. Griffin, Ph.D., Wisconsin-Madison, 1997, Associate Professor — biogeography, physical geography, geographic information systems

Ben Marsh, Ph.D., Pennsylvania State, 1983, Professor — geoarchaeology, human adaptation, mapping, spatial equity

Vanessa Massaro, Ph.D., Pennsylvania State, 2014, Visiting Assistant Professor — feminist geography, critical race theory, alternative political economy, critical and reflexive research methodologies

Karen M. Morin, Ph.D., Nebraska-Lincoln, 1996, Professor — feminist geography, cultural, social and historical geography

Adrian N. Mulligan, PhD. Arizona, 2001, Associate Professor and Chair — political, social and cultural geography, identity politics, historical geography, Europe and North America

Paul Susman, Ph.D., Clark, 1979, Professor — regional development, Third World development, Caribbean, Central America

EDINBORO UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOSCIENCES
DATE FOUNDED: 1945
DEGREES OFFERED: B.A., B.S.
MAJORS: 130
CHAIR: Brian Zimmerman
DEPARTMENT ADMINISTRATIVE ASST: Penny Tingley

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Brian Zimmerman, Chair, Department of Geosciences, Edinboro University of Pennsylvania, Edinboro, PA, 16444.
Telephone (814) 732-2529. Fax (814) 732-1691.
E-mail: bzimmerman@edinboro.edu.
Internet: http://www.edinboro.edu. Search keyword: Geosciences

PROGRAMS AND RESEARCH FACILITIES: The Department offers a traditional B.A. degree in Geography and a B.A. in Geography with Concentrations in either Environmental Studies or Urban and Regional Planning. The Department also offers a B.S. degree in Geology and a B.A. in Earth Science. Courses cover a variety of regional and topical subjects in geography, environmental studies, urban / regional planning, and the earth sciences. Facilities include a GIS and cartography laboratory, a weather station, and a tree-ring laboratory. The department has a collection of topographic and other maps, aerial photographs, journals, and books. The University Library has over 400,000 volumes plus 1.5 million microform units. Major research universities and libraries in Pittsburgh, Cleveland, and Buffalo are within 100 miles of the campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system, plus summer sessions. For admissions information contact the Admissions Office. For financial aid information contact the Financial Aid Office.

FACULTY:

Richard Deal, Ph.D, South Carolina, 2000, Assistant Professor — cartography, GIS

Karen Eisenhart, Ph.D, Colorado, 2004, Associate Professor — physical geography, biogeography

Baher A. Ghosheh, Ph.D., SUNY - Buffalo, 1988, Professor — cultural geography, international trade, Middle East

David W. Hurd, Ph.D., Cleveland State, 1997, Professor — atmospheric and space science

Tadesse Kidane-Mariam, Ph.D., Iowa, 2001, Assistant Professor — urban and regional planning, Africa, environment and habitat management

Henry W. Lawrence, Ph.D., Oregon, 1985, Professor — environmental geography, Latin America

Wook Lee, Ph.D., Ohio State, Assistant Professor — urban and transportation geography, urban and regional planning, GIS, and spatial analysis / quantitative methods

Kerry A. Moyer, Ph.D., Penn State, 1993, Professor — meteorology, climatology

Laurie A. Parendes, Ph.D., Oregon State, 1997, Professor and Chair — environmental issues, biogeography, water resources

Joseph F. Reese, Ph.D., Texas at Austin, 1995, Professor — structural geology

Eric Straffin, Ph.D., Nebraska, 2000, Professor — quaternary geology, sedimentology

Tamara Misner. Ph.D. University of Pittsburgh, 2014 Assistant Professor --- hydrogeology, geomorhology

Dale Tshudy, Ph.D., Kent State, 1993, Professor — invertebrate paleontology

Brian S. Zimmerman, Ph.D., Washington State, 1991, Professor — economic geology

KUTZTOWN UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1961
DEGREES OFFERED: B.A. in Geography, B.S. in Environmental Science/Geography
GRANTED 7/01/10 - 5/07/16: 63 B.A. degrees, 3 B.S. degrees
MAJORS: 67
CHAIR: Richard S. Courtney
DEPARTMENT SECRETARY: Dorothy J. Siravo

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, 105 Graduate Center, Kutztown University, Kutztown, Pennsylvania 19530. Telephone (610) 683-4364 Fax (610) 683-4941. E-mail: courtney@kutztown.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a Bachelor of Arts degree in five tracks: general, applied, environmental, globalization and planning as well as a Bachelor of Science degree in Environmental Science/Geography. The Department houses a number of facilities to support instructional and research activities of students and faculty. The GIS/Computer Cartography laboratory is a state of the-art facility where students may work with the major GIS, remote sensing, and business graphics software packages. Research opportunities include major urban areas, unique rural cultures, geographic information systems, and planning. An internship is required in the applied, environmental, and planning tracks, and for the B.S. Environmental Science/Geography track, offering students the opportuni1y to attain real-world experience.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Kutztown University operates on the semester system. Two five-week summer sessions provide students an opportunity to accelerate their program. The Director of Admissions should be contacted for further information on admission and financial aid.

FACULTY:

Mario L. Cardozo, Ph.D., University of Texas at Austin, 2013, Assistant Professor --- physical, GIS, remote sensing

Moira Conway, Ph.D., CUNY Graduate Center, 2014, Assistant Professor --- GIS, urban, economic, cultural, transportation.

Richard S. Courtney, Ph.D., Ohio State University, 1993, Associate Professor and Chair --- physical, cartography, research methods, urban.

Michael A. Davis, Ph.D., Ohio State University, 2011, Assistant Professor --- physical, meteorology, weather analysis, climate change

Mathias Le Bossé, Ph.D., University of Wisconsin at Madison, 2000, Associate Professor --- cultural, political, economic, world regional, Europe

Steven M. Schnell, Ph.D., University of Kansas, 1998, Professor --- cultural, Africa, North America, globalization

LEHIGH CARBON COMMUNITY COLLEGE

COMPUTER SCIENCE
DATE FOUNDED: 1966
DEGREES OFFERED: Geospatial Technology A.A.S., Geographic Information Systems Certificate
DEGREES GRANTED 9/1/14 – 8/31/15: 2
MAJORS: Geospatial Technology, Geographic Information Systems
CHAIR: Joyce Thompson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: jthompson@lccc.edu.
Credit catalog : http://www.lccc.edu/academics/lccc-credit-catalog
Program pages : http://www.lccc.edu/academics/school-computer-science-and-arts/computer-science-division/geographic-information-system-c
http://www.lccc.edu/node/3363

PROGRAMS AND RESEARCH FACILITIES:
All courses in the programs are available online except Project Management.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
This is an open entry community college. Various forms of financial aid are available. Check the Website: http://www.lccc.edu/financialaid

FACULTY:
Joyce Thompson, M.Ed.

THE PENNSYLVANIA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1945
GRADUATE PROGRAM FOUNDED: 1946
DEGREES OFFERED: B.A., B.S., M.S., M.G.I.S., Ph.D.
GRANTED 6/1/15-5/31/16: 36 Bachelors, 60 Masters, 6 Ph.D.
STUDENTS IN RESIDENCE: 120 Majors, 8 Masters, 51 Ph.D., 3 Postdoctoral Scholars
NOT IN RESIDENCE: 355 M.G.I.S
HEAD: Cynthia Brewer
DEPARTMENT ADMINISTRATIVE ASST: Denise Kloehr

FOR FURTHER INFORMATION WRITE TO: Jessica Perks, Department of Geography, 302 Walker Building, University Park, Pennsylvania 16802. Telephone (814) 865-3434. Fax (814) 863-7943. E-mail: grad@geog.psu.edu. Internet: www.geog.psu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a full range of baccalaureate and graduate degrees and diverse learning and research opportunities, on and off campus. The department offers concentrations and cross-cutting connections in all four major subfields: human geography, physical geography, environment and society geography, and GIScience-cartography. It hosts the Geographic Visualization Science, Technology, and Applications (GeoVISTA) Center. This interdisciplinary center is devoted to fundamental and applied scientific research in GIScience. Particular emphasis is given to geovisual analytics, cartography and geovisualization, representation (cognitive, visual, and database), knowledge management and geocollaboration, and human interaction with geospatial information. The department also hosts Riparia, which conducts, facilitates, and coordinates interdisciplinary research, monitoring, and training regarding wetlands and related resources, with an emphasis in the Mid-Atlantic and Northeastern states. Also hosted in the department are topical research laboratories and groups concentrated in vegetation dynamics; global environment change; landscape ecology; human-environment interactions; landscapes and livelihoods; development and institutions; and urban, regional and economic geography, public policy, and social justice. Ongoing research projects and learning opportunities in the department involve a community of twenty-six tenure-line faculty, forty fixed-term research track research faculty, graduate students, undergraduate students, post-doctoral researchers and fellows, and visiting scholars. The Department of Geography benefits from close ties to the Earth and Environmental Systems Institute. Global climate change, integrated regional assessment, and human/environment interactions are major foci of the institute's research. Close relationships exist between the department and various campus-based area studies programs and research institutes including the Penn State Institutes of Energy and the Environment; the School of International Affairs; the Alliance for Education, Science, Engineering, and Development in Africa (AESEDA); The Department of Women's, Gender, and Sexuality Studies; the Human Dimensions of Natural Resources and the Environment program; Global Programs; Social Science Research Institute; and Population Research Institute. Internationally, the department is a founding member of the World Universities Network and is a sponsor of WUN-related graduate seminars on a diverse range of topics. The department occupies excellent facilities on a beautiful campus and provides office spaces for resident graduate students. In addition to the resources typical of a top-ranked major research university, the department maintains multiple computing facilities in support of its research, development, and instructional missions. All computing is networked to provide printing, maintenance, and backup. The department employs an information technology specialist, and equipment and software are regularly replaced or upgraded to ensure that they are up-to-date. A full range of GIS, remote sensing, and spatial analysis software is available to students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: The University follows the fifteen-week semester system with two six-week summer sessions. Based on high school performance, SAT scores, and advanced standing, students are admitted to the University Park campus (in State College) or to one of nineteen campuses outside University Park. All Geography degrees are completed with junior and senior years at University Park campus, with many students becoming majors when they relocate to University Park. The University participates in all federal and state financial aid programs; scholarships and loans are available at the college level. Degrees are awarded in the College of Earth and Mineral Sciences in general geography (B.A. or B.S.) or in B.S. options in Geographic Information Science and Physical/Environmental Geography. B.A. options also include Human Geography and Nature/Society Geography. The program offers minors in Geography and Geographic Information Systems, and the geography faculty supervise interdisciplinary minors in Climatology, Environmental Inquiry, Information Science and Technology for Earth and Mineral Sciences, and Watersheds/Water Resources. The department also participates in dual majors; simultaneous degrees; honors programs; and interdisciplinary programs such as the Bachelor of Philosophy, Letters Arts and Sciences, and Earth Sciences. All majors are encouraged to participate in one- or two-semester study abroad programs or shorter international study/research experiences. Students may earn academic credit for approved internships in government agencies, private firms, and university teaching and research. Capable undergraduate students benefit from close instructional and research interaction with graduate students and faculty. Detailed information about undergraduate programs is available at www.geog.psu.edu/undergraduate-program-information or by contacting Jodi Vender at advising@geog.psu.edu.

Professional: The department offers online certificate and master's degree programs in Geographic Information Systems (GIS), Remote Sensing and Earth Observation (RS), and Geospatial Intelligence (GEOINT) to meet the needs and busy schedules of full-time professionals who are able to study only part-time and at a distance. With more than a century of commitment to outreach and distance education, Penn State is also a leader in the use of information technology in higher education. Since 1998 the University has offered an array of certificate and degree programs tailored to meet the needs of adult professional students through the World Campus at www.worldcampus.psu.edu. The Department of Geography's certificate program in Geographic Information Systems (CPGIS) is an eleven-credit post-baccalaureate program that helps students become more skillful and knowledgeable GIS users. The graduate certificate program in Remote Sensing and Earth Observation is a twelve-credit program for GIS practitioners who lack formal education in technologies and methods associated with remote sensins, image analysis, and terrain modeling. The postbaccalaureate certificate program in Geospatial Intelligence (GEOINT) is a fourteen-credit program for current and aspiring analysts whose responsibilities include planning for emergencies, coordinating responses to natural and human-induced disasters, and planning and conducting military operations. The Master of GIS (MGIS) degree is a thirty-five-credit program for those who aspire to leadership in the GIS profession. The certificate and MGIS programs follow an accelerated schedule of five ten-week terms per year. All courses are instructor-led and are offered through the University's web-based course management system. Students are expected to complete weekly assignments but are not required to log in at any particular time or place. See the department's online geospatial education program gateway at: www.worldcampus.psu.edu/gep

Graduate: The department has minimal course requirements; all graduate programs of study are individually designed to suit personal needs and professional aims. Program styles range from largely course work to largely tutorial and seminar formats. Program emphases are well reflected in faculty specializations listed below. Work outside geography is also strongly encouraged. The department participates in interdisciplinary graduate programs in women's, gender, and sexuality studies, human dimensions of natural resources and the environment, ecology, and operations research. Applicants must submit GRE scores and have a junior-senior GPA over 3.0 (A=4.0). Teaching and research assistantships carry a competitive two-semester stipend plus all tuition and fees. Fellowships, both departmental and university, and employment opportunities are available. A thesis or two research papers are required of M.S. candidates; Ph.D. students must complete a minimum of one academic year in residence beyond the M.S. degree. Detailed information about the graduate programs is available at www.geog.psu.edu/graduate-program-information/future-graduate-students

FACULTY:

Clio M. Andris, Ph.D., Urban Information Systems, MIT, 2011, Assistant Professor—social networks, urban planning, spatial analysis & GIS, interpersonal relationships, institutions, telecommunications, human movement

Jennifer Baka, Ph.D., Yale, 2012, Assistant Professor—geography and environment

Cynthia A. Brewer, Ph.D., Michigan State, 1991, Professor and Head of Department—cartographic communication and visualization, map design, color theory, multi-scale mapping, atlas production

Robert P. Brooks, Ph.D., Massachusetts, 1980, Professor of Geography, Ecology, and Earth and Environmental Systems Institute; Director of Penn State Riparia—ecology, conservation, and restoration of wetlands, streams, and riparian areas, wetland wildlife, landscape ecology

Andrew M. Carleton, Ph.D., Colorado, 1982, Professor of Geography and Earth and Environmental Systems Institute—satellite climatology, synoptic climatology, climate dynamics, human impacts on climate, Antarctica

Guido Cervone, Ph.D., George Mason University 2005, Associate Professor of Geoinformatics—remote sensing, environmental hazards, geoinformatics, social media, planning and economic development policies, spatial statistics, complex economic systems

Robert G. Crane, Ph.D., Colorado, 1981, Professor; Director, Alliance for Education, Science, Engineering, and Development in Africa (AESEDA)—climatology, regional scale climate change, African climates

Lorraine Dowler, Ph.D., Syracuse, 1997, Associate Professor of Geography and Women's, Gender and Sexuality Studies—social theory, cultural geography, gender, qualitative methods

Roger M. Downs, Ph.D., Bristol, 1970, Professor—behavioral, environmental cognition, geography education

William E. Easterling, Ph.D., North Carolina, 1984, Professor; Dean, College of Earth and Mineral Sciences—environmental change, agricultural systems, climate, renewable natural resources, land use

Christopher Fowler, Ph.D., University of Washington, 2007, Assistant Professor—urban and economic geography, demographics, poverty,

Deryck W. Holdsworth, Ph.D., British Columbia, 1981, Professor—urban historical geography, historical geography of North America, historical GIS

Joshua F. J. Inwood, Ph.D., University of Georgia, 2007, Associate Professor—social and racial dimensions of human vulnerability and global ethics

Brian King, Ph.D., University of Colorado-Boulder, 2004, Associate Professor—cultural ecology, development, GIS, S. Africa, Africa

Alexander Klippel, Ph.D., Bremen, 2003, Associate Professor and Associate Head of Department and Graduate Program Officer—geographical information science, spatial languages, geographic event conceptualization, behavioral research methods

Alan M. MacEachren, Ph.D., Kansas, 1979, Professor; Director of GeoVISTA Center—geographic information science: visual analytics, geovisualization, cartography, geocollaboration, spatial cognition, human-centered systems

Donna J. Peuquet, Ph.D., SUNY Buffalo, 1977, Professor; Associate Director of GeoVISTA Center and Undergraduate Program Officer—geographic information science, space-time representation, environmental cognition, spatial data models

Bronwen Powell, Ph.D., McGill University, 2012, Assistant Professor—social, cultural and environmental drivers of diet quality and food security, the relationship between biodiversity and human nutrition

Anthony Robinson, Ph.D., Penn State, 2008, Assistant Professor, Director of Online Geospatial Education Programs—geographic visualization, cartography, visual analytics

Erica A. H. Smithwick, Ph.D., Oregon State, 2002, Associate Professor of Geography, Ecology, and Earth and Environmental Systems Institute—landscape ecology, ecosystem ecology, biogeochemistry, fire ecology

Alan H. Taylor, Ph.D., Colorado, 1987, Professor of Geography and Ecology—disturbance and climate effects on vegetation, landscape ecology, biogeography, biological conservation, environmental management, fire ecology, paleoecology

Melissa W. Wright, Ph.D., Johns Hopkins, 1997, Professor of Geography and Women's, Gender, and Sexuality Studies, Department Head of Women's, Gender, and Sexuality Studies—social theory, feminist theory, political economy, Mexico-U.S. border, qualitative methods

Karl S. Zimmerer, Ph.D., UC-Berkeley, 1988, Professor—land use and agriculture change, environmental impacts (biodiversity, soils, water), economic development, nature-society theory, human-environment modeling

EMERITI FACULTY:

Ronald F. Abler, Ph.D., Minnesota, 1968, Professor Emeritus—history of geography, geography of communications systems.

Rodney A. Erickson, Ph.D. University of Washington, 1973, Professor Emeritus—human geography.

Peirce F. Lewis, Ph.D., Michigan, 1958, Professor Emeritus—American landscapes.

Lakshman Yapa, Ph.D., Syracuse, 1969, Professor Emeritus—human geography and poverty.

Brent Yarnal, Ph.D., Simon Fraser, 1982, Professor Emeritus—physical/environmental geography, local effects of global change

ADJUNCT AND AFFILIATE FACULTY (Including On-line Faculty):

Todd Bacastow, Ph.D., Penn State, 1992, Lead faculty, Graduate Certificate in Geospatial Intelligence and Professional Master of Homeland Security Geospatial Intelligence Option, Dutton e-Education Institute—GIS, geospatial intelligence, geospatial analytic methods

Ryan Baxter, M.S, Penn State, 1999, Senior Research Assistant and Instructor, Dutton e-Education Institute

Dennis Bellafiore, Ph.D., University of Pennsylvania, Senior Lecturer, Dutton e-Education Institute

Joseph Bishop, Ph.D., Penn State, 2008, Instructor, Dutton e-Education Institute

Justine Blanford, Ph.D., Imperial College, Assistant Professor---spatial analysis, spatial and temporal ecology of disease, Dutton e-Education Institute

George Chaplin, M.S., Senior Research Associate

Mark W. Corson, Ph.D., South Carolina, 1997, Instructor, Dutton e-Education Institute—political and military geography, geospatial intelligence, Western Europe and Southwest Asia

Peter Croswell, M.S., Western Illinois University, Instructor, Dutton e-Education Institute

James Detwiler, M.S., University of Delaware, 1999, Senior Instructor, Dutton e-Education Institute—GIS programming and customization, climatology, distance education

David DiBiase, M.S., University of Wisconsin—Madison, Senior Lecturer, Dutton e-Education Institute

William Doe, Ph.D., Associate Professor—military lands management, watershed management and modeling, ecosystem characterization and sustainability practices for universities and federal installations, Dutton e-Education Institute

Susan W. Friedman, Ph.D., Toronto, 1988, Adjunct Assistant Professor—history of geography, social and historical geography

Larry Gorenflo, Ph.D., University of California, Santa Barbara, 1985, Professor of Landscape Architecture—biodiversity conservation, cultural ecology, East Africa, Latin America, Southeast Asia

Amy Griffin, Ph.D., Penn State, 2004, Instructor, Dutton e-Education Institute

Adrienne Gruver, M.S., Penn State, 2009, Lecturer, Dutton e-Education Institute

Peter Guth, Ph.D., Massachusetts Institute of Technology, 1980, Instructor, Dutton e-Education Institute—geology, oceanography, computer-assisted terrain analysis

Stephen Handwerk, M.A., George Washington University, 1989, Professional Certification Counselor, Dutton e-Education Institute

David Jimenez, M.A., Webster University, Instructor, Dutton e-Education Institute

Patrick Kennelly, Ph.D., Oregon State, 1997, Professor and Instructor, Dutton e-Education Institute—geographic information science (GIS), GIS project management, cartography

John A. Kelmelis Ph.D., Penn State, 1991, Professor of Geography and International Affairs, School of International Affairs—science, policy, and international affairs; natural resources, sustainable development, environmental change, information infrastructure

Fritz Kessler, Ph.D., University of Kansas, 1999, Senior Research Associate, Dutton e-Education Institute—projections, datums, coordinate systems, cartography

Elizabeth King, M.Ed., Penn State, 2003, Senior Lecturer, Dutton e-Education Institute—geographic information systems, adult education, problem-based learning

Rachel Kornak, M.S., University of Michigan, Instructor, Dutton e-Education Institute

Stephen A. Matthews, Ph.D., Wales, 1990, Associate Professor of Sociology, Anthropology, Geography and Demography, and Director of the Geographic Information Analysis Core at the Population Research Institute—demography, health and well-being, geographic information systems, multi-method research

Douglas A. Miller, Ph.D., Penn State, 1999, Director, Center for Environmental Informatics, Earth and Environmental Systems Institute; Senior Research Associate in EESI; Associate Professor of Geography—remote sensing, geographic information science, landscape ecology, soils, geomorphology

Andrew Murdoch, MGIS, Penn State, 2008, Instructor, Dutton e-Education Institute

James O'Brien, Ph.D., Penn State, 2004, Instructor, Dutton e-Education Institute

Jarlath O'Neil-Dunne, M.S., University of Vermont 2005, Instructor, Dutton e-Education Institute

Linda Pickle, Ph.D., Johns Hopkins, 1977, Adjunct Professor—geovisualization, spatial statistical analysis, cancer epidemiology

Sterling Quinn, Ph.D. Penn State, 2016, Instructor

Brandi Robinson, M.S., Penn State 2005, Lecturer

Gian Rocco, Ph.D., Penn State, 2007, Senior Research Associate—applied herpetology, human-environment relationships

Karen Schuckman, MGIS, Penn State, Senior Lecturer, Dutton e-Education Institute—remote sensing, geospatial technology, photogrammetry

Jim L. Sloan, M.S., Senior Lecturer, Dutton e-Education Institute

Kevin Stofan, MGIS, Penn State, 2011, Instructor, Dutton e-Education Institute

Gregory A. Thomas, Ph.D., Indiana University of Pennsylvania, 2014, Assistant Director of Geospatial Intelligence programs, Dutton e-Education Institute

Michael L. Thomas (LtCol), Ph.D., University of Sarasota, 2003, Instructor, Dutton e-Education Institute

George Van Otten, Ph.D., Oregon State, Senior Lecturer, Dutton e-Education Institute

Jan Van Sickle, Ph.D., University of Colorado, Instructor, Dutton e-Education Institute—remote sensing, GNSS, digital elevation models, 3D and 4D Modeling

Jan Oliver WallGrün, Ph.D., Instructor, Dutton e-Education Institute

Denice Wardrop, Ph.D., Penn State, 1997, Senior Scientist; Associate Director of Riparia; Associate Professor of Geography and Ecology; Director of Penn State Sustainability Institute—landscape ecology, wetland plant communities, effects of human disturbance on wetland ecosystems, wetland condition assessment

Michelle Zeiders, M.S., Shippensburg University, Lecturer, Dutton e-Education Institute

SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOGRAPHY-EARTH SCIENCE
DATE FOUNDED: 1934
GRADUATE PROGRAM FOUNDED: 1976
DEGREES OFFERED: B.S. in Geography, B.S. in Geoenvironmental Studies, M.S. in Geoenvironmental Studies
GRANTED 9/1/15-8/31/16: 65 Bachelors, 4 Masters
STUDENTS IN RESIDENCE: 166 Majors, 28 Masters
NOT IN RESIDENCE: 28 Masters
CHAIR: William Blewett
DEPARTMENT ADMINISTRATIVE ASST: Tammy Myers

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Geography-Earth Science Department, 1871 Old Main Dr., Shippensburg University of Pennsylvania, Shippensburg, Pennsylvania 17257-2299.
Telephone (717) 477-1685. Fax (717) 477-4029.
E-mail: TLMyers@ship.edu. Internet: www.ship.edu/Geo-ESS/.

PROGRAMS AND RESEARCH FACILITIES:
UNDERGRADUATE: The department has two programs of study: the liberal arts Geography Program and the geoenvironmental studies program. The Geography Program provides the student with a core course program which includes physical geography, economic geography, geographic information systems, and urban geography or land use. Three tracks can be emphasized in the program. *Land Use* investigates the human use and modification of natural environments (e.g. deforestation, urban sprawl, extension of impervious surface areas, soil erosion and degradation, salinization, and desertification) that impact our access to resources, and ultimately our own health and safety. *Human Environmental Studies* examines climate, land resources, and water resources from the human perspective. The field integrates the study of the physical and cultural aspects of the environment into a meaningful framework to solve complex environmental problems with an emphasis on technology and fieldwork. *Geographic Information Systems* (GIS) gives the student a set of skills in GIS, cartography, computer mapping and graphics, image interpretation, and remote sensing that can be applied to the broader discipline.

The Geoenvironmental Studies program integrates the study of the physical and cultural aspects of the environment into a meaningful framework to solve environmental problems. This program is a science-based curriculum designed to produce broadly trained scientists with a holistic understanding of the environment, with an emphasis on geo-technology and practical field experience. An internship is required, as discussed below. A 12-credit GIS certificate program is also offered by the department, as well as a GIS minor.

GRADUATE: The graduate Geoenvironmental Studies Program is designed to prepare planners, researchers, and educators with a broad understanding of the environment and with the technical and managerial skills of problem-solving. Instead of the more focused, traditional single-science approach, this academic degree draws upon the interactions of the disciplines of geography and the earth sciences to prepare the geoenvironmental scientist. Namely the geographic expertise is in the form of environmental relations, land use, locational analysis, resources, and regional knowledge; the earth science expertise is in the form of the applied aspects of geology, meteorology, hydrology, and soil science. A GIS-environmental science and planning emphasis is available in the department.

This specialization prepares graduates for positions at the operational and policy-making levels in federal, state, and local governmental agencies, industry, non-profit organizations, and consulting firms, as well as for higher levels of education and doctoral work in this field. A thesis or internship and research project is required for graduation.

Graduate students majoring in Geoenvironmental Studies have the opportunity to experience an internship as part of their graduate course work. Many employers consider internships important for personnel recruitment, and many internships develop into full-time jobs after graduation. The main objectives of the Geoenvironmental Studies Internship Program are the following: the student intern will be exposed to the real problems and activities of the community from the perspective of the work organization where he/she is placed; the student intern ideally will be introduced to central activities and projects of the sponsoring organization; the student will have the opportunity and the responsibility for completing a worthwhile project; and the student will have the opportunity to apply geographic and environmental theory, techniques, and knowledge to real-life practices.

INTERNSHIPS AND EMPLOYMENT: Geoenvironmental Studies majors have received internships with a variety of governmental and private agencies. The Pennsylvania Department of Environmental Protection, the Pennsylvania Department of Conservation and Natural Resources, and the Pennsylvania State Game Commission have provided internships for our majors at the state level. Internship placements have also been arranged with the Natural Resource Conservation Service; Gannett Fleming, Inc., Skelly & Loy Consulting Firm; National Audubon Society; Chesapeake Bay Foundation; Tri-County Planning Commission; Franklin County Planning Commission; United States Geological Survey; The Nature Conservancy; KCI Technologies; Shippensburg Borough; Martin and Martin Consulting Firm; Lebanon County Solid Waste Authority; and environmental consultants. These internships have provided our students with practical experience to enhance their entrance into the job market.

Some of the positions obtained by our graduates and some of their employers include physical scientist with the federal government; environmental planner, Jefferson County, PA; conservationist, Dauphin County Soil Conservation District; PA Department of Conservation and Natural Resources; PA Department of Environmental Protection; KCI Technologies; PA Department of Transportation; GTS Technologies; Delta Development; United States Geological Survey; Gannett Fleming; Southern Maine Regional Planning Commission; Skelly & Loy Consulting Firm, Delta Airport Consultants, Inc., and as graduate students at universities such as North Carolina, Chapel Hill; the University of Tennessee; and Oklahoma University.

FACILITIES: The Department of Geography-Earth Science is housed in Shearer Hall. Facilities include a large GIS laboratory utilizing the latest ArcGIS software, a remote sensing laboratory utilizing ERDAS image processing software, data processing center, soils laboratory, hydrology laboratory, rock and mineral laboratory, microclimatological station, air photo and map library, and a wide range of field equipment and instruments for topographic, geologic, land use, meteorologic, hydrologic, soil, and subsurface surveys. IBM and UNIX computers housing a wide variety of software systems are located in the department's GIS labs. The department has a number of advanced GPS units, total stations, GPR and EM units, air and water monitoring systems, aerial imagery platforms, and other integrated field technologies that are available for student use.

The Center for Land Use and Sustainability (CLUS), which is housed in the Department of Geography-Earth Science, supports science-based solutions to interdisciplinary sustainability challenges. The center has more than fifteen affiliated scientists, two full-time staff, and has expertise in: Geographic Information Systems; Global Systems Navigation Satellite; physical and environmental sciences; land use planning, economics, and transportation; applied history and archaeology; sustainable business practices; community sustainability;

and grant writing and project management. Undergraduate and graduate students can become involved with the CLUS through grants, student-faculty research, and service learning programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
An applicant must meet the minimum standards of the Shippensburg University Graduate School and must have an undergraduate minimum of (a) 12 hours in geography, or 12 hours in the earth sciences, or a combined total of 18 hours in the two fields; or (b) 15 hours in the social sciences, including six hours of geography, and 15 hours in the natural sciences, including six hours in earth sciences. A student must have a 2.75 average on a 4.0 system or attain an acceptable score on the Graduate Record Exam for acceptance by the Graduate School. Conditional admission may be granted by the Departmental Graduate Faculty Committee for a student lacking the required level of entrance requirements. Full admission will be granted after the deficiencies have been corrected and six hours of graduate work successfully completed.

Each student will plan a program on an individual basis with the graduate faculty, ensuring a balanced natural/social science background. For graduation with a Master of Science degree in Geoenvironmental Studies, a student must complete 24 hours of core courses and electives in geoenvironmental courses, six hours of electives in the behavioral, social, or natural sciences, a six-hour internship or a Master's thesis, and pass a written comprehensive exam.

Graduate assistantships are available during the academic year and include waiver of tuition fees and carry stipends. Full-time students interested in appointments for the academic year should request applications from the Dean of the Graduate School or the Department Chair before March 1. Assistantships require two letters of recommendation, a statement of career goals and objectives, and graduate record examination scores are recommended.

FACULTY:
Mike Applegarth, Ph.D., Arizona State University, 2001, Associate Professor — soils, GIS, physical geography, remote sensing, map and air photo interpretation
William L. Blewett, Ph.D., Michigan State, 1991, Professor and Chair — geology of national parks, North America, physical geology, glacial geomorphology, quaternary geology, landforms
Sean R. Cornell, Ph.D. 2008, University of Cincinnati, Associate Professor — geology, sedimentology, petrology, marine environment
Scott Drzyzga, Ph.D., Michigan State, 2007, Associate Professor — GIS, geographic techniques, human geography
Alison E. Feeney, Ph.D., Michigan State, 2000, Associate Professor — computer cartography, GIS, North America
Thomas P. Feeney, Ph.D., Georgia, 1997, Professor — geomorphology, hydrology, karst, groundwater, geologic hazards, soils
Kurtis G. Fuellhart, Ph.D., Pennsylvania State, 1999, Professor — cultural geography, economic geography, regional development and analysis
Timothy W. Hawkins, Ph.D., Arizona State, 2004, Professor — meteorology, climatology, hydrology
Claire A. Jantz, Ph.D., Maryland, 2005, Professor — geographic techniques, land use, ecosystem science, regional planning
Paul G. Marr, Ph.D., University of Denver, 1996, Professor — transportation, historical, quantitative techniques, Latin America
George M. Pomeroy, Ph.D. University of Akron, 1999, Professor — urban geography, regional development and planning, land use, Asian studies
Janet Smith, Ph.D., Georgia, 1999, Professor — GIS, computer mapping, cartography, geography education
Kay Williams, Ph.D., Georgia, 1995, Associate Professor — climatology, biogeography, conservation, atmospheric issues
Christopher J. Woltemade, Ph.D., Wisconsin, 1993, Professor — hydrology, water resources management, soils, field techniques, fluvial geomorphology, environmental restoration
Joseph T. Zume, Ph.D., University of Oklahoma, 2007, Associate Professor — groundwater, field hydrology, geophysics

TEMPLE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND URBAN STUDIES
DATE FOUNDED: 1961
GRADUATE PROGRAM FOUNDED: 1969
DEGREES OFFERED: B.A. in Geography and Urban Studies; B.A. in Environmental Studies; Undergraduate Certificate in Geographic Information Systems; M.A. in Geography and Urban Studies; Professional Science Master's (PSM) in Geographic Information Systems; Graduate Certificate in Geographic Information Systems; Ph.D. in Geography and Urban Studies
GRANTED 09/01/14-08/31/15: 29 Bachelors in Geography and Urban Studies; 32 Bachelors in Environmental Studies; 4 Masters of Arts in Geography and Urban Studies; 2 Ph.D. in Geography and Urban Studies
STUDENTS IN RESIDENCE: 181 Majors; 8 M.A.; 10 Professional Science Masters in GIS; 21 Ph.D.
CHAIR: Melissa R. Gilbert
DEPARTMENT ADMINISTRATIVE ASST: Anne Eckert

FOR FURTHER INFORMATION WRITE TO: Program Coordinator, Department of Geography and Urban Studies, 308 Gladfelter Hall, Temple University, Philadelphia PA 19122.
Telephone (215) 204-7692. E-mail: guses@temple.edu.
Internet: www.temple.edu/cla/gus

PROGRAMS AND RESEARCH FACILITIES:
The department offers a Ph.D. and Masters degrees in Geography and Urban Studies, a Professional Science Master's (PSM) in GIS, a B.A. in Geography and Urban Studies, a B.A. in Environmental Studies, and Undergraduate and Graduate Certificates in GIS. Our curriculum focuses on four areas: Globalization, Sustainability, Social Justice, and Geographic Methods.

The Ph.D. program in Geography and Urban Studies trains students in interdisciplinary and spatially integrative frameworks and equips them with specialized skills to apply to real-world conditions. The complexity and pace of economic, environmental, and social change requires an integrative graduate program that provides students with students with a strong analytical foundation that stresses spatial relations, scale transitions, place and context, and nature societal relations. The program prepares students for careers in institutions of higher education in the field of geography, urban planning, policy studies, and interdisciplinary international, environmental, and development programs, as well as in research-oriented organizations such as think tanks, policy institutes, and non-governmental organizations. The program draws on our Philadelphia location to provide students with opportunities to engage in public policy and applied research. Students can utilize our faculty's linkages with public agencies, educational institutions, community-based organizations, and social movements in the local region, many other regions in the United States, and several significant international locations including South and East Asia and Latin America.

The Ph.D. program requires 57 credit hours and admits students holding a bachelor's degree or master's degree in a related field. Up to 24 credits may be applied toward advanced standing to qualified Masters degree holders. To fulfill the degree requirements, students

must complete coursework, pass a qualifying examination, write and defend a dissertation proposal, and then write and defend their dissertation.

The M.A. in Geography and Urban Studies program prepares students for further study and for careers in planning and public administration, environmental management, economic development, geographic systems management, community organizing and social change efforts, and academic careers. Throughout, emphasis is placed on the development of research techniques and analytical skills applicable to problem solving. Graduates find employment in public sector agencies that deal with environmental planning, land use, and urban and regional problems. They also work for quasi-public social service institutions that address various needs or urban residents as well as for private sector firms whose business requires and understanding of urban and spatial dynamics.

The M.A. program requires 36 credits and typically is completed in two years by full-time students. Part-time students also are accepted into our program — and most courses are offered during the evening, to accommodate students who work during the day. The department requires that every student produce a Masters Research Paper.

The Professional Science Master's in Geographic Information Systems (PSM in GIS) program is designed to train a highly competent workforce, ready to meet the demands of the job market in the non-profit, governmental, and private sectors. By coordinating with an advisory board of professionals in the field, we are building a program that meets current market needs and that will be adaptable to future industry needs.

The PSM in GIS program requires 30 credits and follows a year-long , full-time model that provides an intensive experience for student-professionals seeking to re-enter the workforce quickly. Students will also be able to complete the program part-time to ensure that working professionals are able to take advantage of this new degree program. The electives will allow students to specialize within their own respective areas of interest. The Capstone or Internship course will provide students with a research project or industry experience, depending on their primary interests. All courses will emphasize practical skills such as project management, scientific writing, verbal communication, and presentation skills, as well as critical thinking.

The Department offers students close personal attention in fulfilling degree requirements and career planning; a state-of-the-art curriculum; opportunities for funded research and internships; a diverse faculty and student community; and opportunities to pursue interdisciplinary study. The program draws upon the interdisciplinary expertise of twenty-four faculty members. In recent years, members of the department have published books with leading publishers in the field including Oxford University Press, MIT Press, and Wiley and Routledge; contributed articles to leading geographical journals such as the Annals of the Association of American Geographers, The Professional Geographer, and Economic Geography and interdisciplinary journals such as Environment and Planning A, Cities, Journal of the National Cancer Institute, International Forestry Review, Remote Sensing of Environment, and Transfers: Interdisciplinary Journal of Mobility Studies; and received competitive grants from the National Science Foundation, the National Institutes of Health, World Bank, the Environmental Protection Agency, the United Nations, the United States Information Agency, the Overseas Development Institute, the Inter-American Foundation, the American Institute of Indian Studies, and the Economic Development Agency. The Spatial Analysis Laboratory at Temple (SAL@T,) is a university-wide core-facility in health geographics situated in and managed by the Department of Geography and Urban Studies.

Students have opportunities to work on departmental projects and have access to labs with GIS and cartography software in the department and across the College of Liberal Arts (all CLA machines, plus the University's Tech Center, are equipped with the relevant software). Graduate seminars are held within the department and outside speakers often are invited in. Some frequently used map, book, and journal resources are housed within the department; others are located in nearby Paley Library. All graduate assistants are provided with a computer, desk, and office space readily accessible to faculty offices and department facilities.

The challenges and opportunities that face cities and metropolitan regions are central to the well being of billions of people around the globe. Our programs focus on understanding and analyzing such challenges and opportunities. It is truly a program for the 21st century.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Temple University is on a semester plan. Admission requirements for the Ph.D. program are available at: http://bulletin.temple.edu/graduate/scd/cla/geography-urban-studies-phd. Admission requirements for the M.A. program are available at: http://bulletin.temple.edu/graduate/scd/cla/geography-urban-studies-ma/#admissiontext. Admission requirements for the PSM in GIS are available at: http://bulletin.temple.edu/graduate/scd/cla/geographic-information-systems-psm/#admissiontext.

Financial Aid information may be obtained from the Office of Student Financial Services, at: www.temple.edu/sfs

FACULTY:

Max Andrucki, Ph.D., Leeds, 2011, Visiting Assistant Professor — social and cultural geography; sexuality, gender, and space; geographies of whiteness in contemporary South Africa; intersection between migration and transnationalism and identity

Sanjoy Chakravorty, Ph.D., Southern California, 1992, Professor — distribution, development, globalization, cities, regions

Fletcher Chmara-Huff, Ph.D., Ohio State, 2011, Visiting Assistant Professor — territory and territorialization, political ecology, indigenous peoples, Caribbean studies, fisheries, sustainability, citizen science and related methodologies, identity politics, whiteness, and green Christianity

Roman Cybriwsky, Ph.D., Pennsylvania State, 1972, Professor — urban-social geography, world cities, neighborhood change and development, cultural geography, Pacific Asia, Ukraine

Bradley Garderner, PhD., CUNY Graduate Center, 2012, Visiting Assistant Professor — urban geography, race, migration, identity, neighborhood change, Jewish Studies, Applications of GIS

Melissa R. Gilbert, Ph.D., Clark, 1993, Professor and Chair — urban, economic, and feminist geography, feminist and critical race theory, urban social theory, urban poverty and labor markets, labor and community organizing, information technologies and economic empowerment, qualitative methods

Lee Hachadoorian, Ph.D., CUNY Graduate Center, 2011, Visiting Assistant Professor --- Open source GIS, open data, spatial databases, urban economic geography, spatial analysis, residential location, local public finance, suburbanization and sprawl

Allison Hayes-Conroy, Ph.D., Clark, 2009, Assistant Professor — food systems, sustainable nature-society relations, social movements, urban/rural studies and land use policy, feminist geography and politics of the body, spiritual ecology

Kevin Henry, Ph.D., McGill, 2005, Assistant Professor — medical and health geography, public health, cancer epidemiology, applied GIS and spatial statistics for health data, health services and disparities

Charles Kaylor, ABD, Michigan, Visiting Assistant Professor — GIS, information technology, e-government, the digital divide, community planning

Robert J. Mason, Ph.D., Rutgers, 1986, Professor — environmental policy, land use planning and growth management, parks and protected areas, hazards and risk, tourism, Japan, Asia

Michele Masucci, Ph.D., Clark, 1987, Professor and Vice Provost for Research — societal dimensions of information and communications technologies, GIS and society, regional planning theory, water resources management, theories of the digital city

Jeremy Mennis, Ph.D., Pennsylvania State, 2001, Associate Professor and Undergraduate Chair — geographic information science and systems, spatial analysis, geographic data mining, social and environmental applications of GIS

Jessica Miller, Ph.D., The Graduate Center, CUNY, 2015, Visiting Assistant Professor --- environmental and human geography, urban-regional dynamics, urban political ecology, city and identity, environmental inequity, planning, water resources, environmental gentrification and displacement, brownfields, waterfront redevelopment

David Organ, Ph.D., Berkeley, 1995, Visiting Assistant Professor — historical geography, urban geography and African American Studies

Hamil Pearsall, Ph.D., Clark, 2009, Assistant Professor and Graduate Chair — urban sustainability; environmental justice and health; GIS; human dimensions of global environmental change; risk, hazards and vulnerability; brownfield redevelopment; urban greening

Christina Rosan, Ph.D., Massachusetts Institute of Technology, 2007, Assistant Professor and Director of Environmental Studies — metropolitan planning and governance in the U.S. and Latin America, environmental planning, land use and growth management, urban politics, management of mega-cities

Rickie Sanders, Ohio State, 1981, Professor — urban social geography, geographic education/under-represented groups, environment and development

Kolson Schlosser, Ph.D., 2007, Pennsylvania State, Visiting Assistant Professor — political ecology of mineral resource extraction in northern North America, environmental history, critical geopolitics, population geography, geographic pedagogy

Jacob Shell, Ph.D., 2012, Syracuse, Assistant Professor — transportation and infrastructure, transport animals, geography of social movements and rebellions, cartography and geovisualization, mapping of texts and literature, geographic dimensions of political economy

Gerald Stahler, Ph.D., Temple, 1983, Professor — psychology (clinical), program evaluation, urban social problems, drug abuse

Elizabeth L. Sweet, Ph.D., 2000, University of Illinois at Chicago, Visiting Assistant Professor — immigration, economic development, gender violence, diversity issues in community development

Victor Hugo Gutierrez-Velez, Ph.D., 2013, Assistant Professor --- sustainability science, remote sensing, environmental change, landscape ecology, land change science, spatio-temporal modeling, climate change adaptation and mitigation, social-ecological systems

Sandra Zupan, Ph.D., University of Wisconsin-Milwaukee, 2010, Visiting Assistant Professor --- neoliberal urban governance, local economic development, community organizations, labor-community coalitions, economic justice, environmental justice, urban sustainability, Rust Belt

EMERITI FACULTY:

Carolyn T. Adams, Ph.D., Washington, 1974, Professor Emeritus — urban public policy, housing, economic development, infrastructure planning

David J. Cuff, Ph.D., Pennsylvania State, 1972, Professor Emeritus — cartography, physical geography, exploration

Marilyn Silberfein, Ph.D., Syracuse, 1971, Professor Emeritus — urban and rural development, third world economic geography, migration, political geography, tourism, world affairs

UNIVERSITY OF PITTSBURGH, JOHNSTOWN

GEOGRAPHY DEPARTMENT
DATE FOUNDED: 1971
DEGREES OFFERED: B.A.
GRANTED 9/1/14 - 8/31/15: 11 Bachelors
MAJORS: 22
CHAIR: William B. Kory
DEPARTMENT SECRETARY: Sharon E. Wilson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. William B. Kory, Geography Department, University of Pittsburgh at Johnstown, Johnstown, Pennsylvania 15904. Telephone (814) 269-2994 or 2990. Fax (814) 269-7255.
E-mail: koryupj@pitt.edu.

PROGRAMS AND RESEARCH FACILITIES:
The Geography Department at the University of Pittsburgh at Johnstown offers an undergraduate major which emphasizes physical/environmental geography, urban/economic geography, and population/geodemography studies. Geo-techniques are stressed in all sub-fields. Secondary Education majors may elect a 30 geography credit education degree. A separate Environmental Studies major, emphasizing environmental policy, is also available and has over 50 majors. The department arranges internships with local and regional planning and resource management agencies for qualified students. The department also offers a certificate program in GIS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Students with a major in geography must complete 30 credits in the discipline. A course in cartography, three "core" geography classes, and an additional six geography courses from three subfields, along with a metholodogy course are required for a major. Selected courses in related Social Sciences and Natural Sciences are also strongly recommended, and there are additional Divisional and University requirements all students must complete.

UPJ is a degree granting four year college within the University of Pittsburgh system. The college offers undergraduate programs in arts and sciences, education, business, nursing and engineering technology. It is located on a wooded, 650-acre suburban campus and has an enrollment of over 3,000 students. The department edits and publishes *The Pennsylvania Geographer,* a semi-annual refereed journal of the Pennsylvania Geographical Society.

FACULTY:

Gregory E. Faiers, PhD, Louisiana State, 1986, Associate Professor — physical, climatology, environmental, natural hazards, water resources

Ola Johansson, PhD, Tennessee, 2004, Professor — urban, planning, energy, Europe, popular music

William B. Kory, PhD, Pittsburgh, 1977, Associate Professor — geodemography, political, migration, Russia and Eastern Europe, Africa

Ahmad Massasati, PhD, Utah, 1991, Assistant Professor — cartography, GIS, remote sensing, Middle East

Mary Pfau Lavine, PhD, Pittsburgh, 1976, Professor Emerita

VILLANOVA UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT
DATE FOUNDED: 1966 (Re-established in 2007)
DEGREES OFFERED: B.A., B.S.
GRANTED 8/22/14-8/22/15: 30 Bachelors
CHAIR: Francis A. Galgano Jr.
DEPARTMENT ADMINISTRATIVE ASST: Ms. Angelina Fondaco

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Francis A. Galgano, Department of Geography and the Environment, Villanova University, 800 Lancaster Ave., G67 Mendel Hall, Villanova, Pennsylvania 19085-1699.
Telephone (610) 519-3337/3336. Fax (610) 519-3338.
E-mail: francis.galgano@villanova.edu.
Internet: http://www.villanova.edu/artsci/geoenv/.

PROGRAMS AND RESEARCH FACILITIES:
The Department of Geography and the Environment offers B.A. degrees in Geography and one in Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Environmental Studies. Beginning in the fall 2016 semester, the department will offer an MS in Environmental Science. The department was re-established in 2007 to serve as a multidisciplinary academic unit linking social and natural sciences within the College of Liberal Arts and Sciences. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society.

Individual programs are formed around major themes: (1) human systems analysis and human geography; (2) geographical techniques; (3) regional analysis; and (4) physical geography and environmental systems. Majors can also participate in an Honors Program and other concentrations/minors within the College. Internships designed for geography and environmental majors are available.

The department has a state-of-the-art computer facility dedicated exclusively to Geospatial Sciences. The department has three teaching and five research labs. Additionally, the department has just added a full suite of state-of-the-art GPS equipment and offers a GPS certification program.

The department sponsors the Eta Lambda Chapter of Gamma Theta Upsilon, the International Geographical Honor Society. Students enrolled in the geography and environmental programs participate in a campus-wide Environmental Learning Community as well as several other cross-campus and community activities. The department maintains a large map collection.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Villanova University is on a semester plan. Admission requirements are available from: Director of Admissions, Office of Admissions, Villanova University, Villanova, Pennsylvania 19085 (http://www.villanova.edu/enroll/admission/).

Financial Aid information may be obtained from the Director of Financial Aid, Financial Aid Office, Kennedy Hall (http://www.villanova.edu/enroll/finaid/).

FACULTY:
Francis A. Galgano Jr., Ph.D., University of Maryland, College Park, 1998, Associate Professor and Chair — physical geography, geomorphology, coastal geomorphology, military geography, environmental geography
Steven T. Goldsmith, Ph.D., Ohio State University, 2009, Assistant Professor — environmental science, environmental geology, climate change
Bonnie M. Henderson, Ph.D., Louisiana State University, 1998, Assistant Professor — social geography, population geography, North America
Keith G. Henderson, Ph.D., University of North Carolina, Chapel Hill, 1991, Associate Professor — climatology, applied climate, environmental change, natural resources
Kabindra Shakya, Ph.D., Rice University, 2011, Assistant Professor — environmental science
John L. Kelley, M.A., University of Georgia, 1981, Instructor — remote sensing
Peleg Kremer, Ph.D., University of Delaware, 2010, Assistant Professor — geographic information systems, urban sustainability
Stephen J. Levas, Ph.D., Ohio State University, 2012, Post-Doctoral Teaching Fellow — environmental science, coral reef biogeochemistry
Lisa J. Rodrigues, Ph.D., University of Pennsylvania, 2005, Associate Professor — environmental science, coral reef biogeochemistry
Stephen M. Strader, Ph.D., Northern Illinois University, 2016, Assistant Professor — meteorology
Nathaniel Weston, Ph.D., University of Georgia, 2005, Associate Professor — environmental science, biochemistry, coastal ecosystems, climate change

WEST CHESTER UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1935
DEGREES OFFERED: B.A. and M.A. in Geography, B.A. in Elective Social Studies Education, Master in Public Administration/Urban and Regional Planning Concentration
POST BACCALAUREATE CERTIFICATES OFFERED: Geographic Information Systems (GIS), GIS Online, Urban and Regional Planning
GRANTED 9/1/15-8/31/16: 197 Bachelors, 36 Masters, 26 Certificates
STUDENTS IN RESIDENCE: 85 Undergraduate Majors, 29 Master's Students
NOT IN RESIDENCE: 5 Masters
CHAIR: Dorothy Ives Dewey
DEPARTMENT ADMINISTRATIVE ASST: Heather MacQueen

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Dorothy Ives Dewey, Department of Geography and Planning, West Chester University, West Chester, Pennsylvania 19383. Telephone (610) 436-2746. Department telephone (610) 436-2343. Fax (610) 436-2889. E-mail: divesdewey@wcupa.edu.
Internet: www.wcupa.edu/geography.

PROGRAMS AND RESEARCH FACILITIES:
Geography and Planning at West Chester, housed in the College of Business and Public Affairs, offers undergraduate majors and minors in geography, planning, and geographic information systems (GIS). Graduate students are offered two Masters Degree programs, and certificates in Geographic Information Systems and Urban and Regional Planning.

Undergraduate: Undergraduate majors may specialize in one of five specific areas of interest: (1) Geography, (2) Geographic Information

Systems (GIS), (3) Planning, (4) Environmental, (5) Elective Social Studies Education. All five B.A. "tracks" provide comprehensive backgrounds in geography as a field of study. Students are encouraged to apply their knowledge and skills through directed internship experiences prior to graduation.

Graduate: Graduate programs include the Master in Public Administration (MPA) and the M.A. in Geography. The M.P.A. is an interdisciplinary degree which has a concentration in Urban and Regional Planning as well as six courses of instruction in specific administration skills (e.g., computer applications, accounting, and budgeting). There are two certificate programs.

The M.A. in Geography develops skills and expertise for problem solving in such areas as land use planning, demographic research, conservation of natural resources, urban environmental analysis, economic development, and GIS. It is a 33-hour thesis or non-thesis program. Internships are possible in both Masters programs.

The Certificate in Geographic Information Systems consists of six courses that teach the use of technologies of Geographic Information Systems (GIS) and Global Positioning Systems (GPS). These technologies are prominent workplace tools which are widely used in public and private sectors today. All six courses can be counted towards a Masters Degree program in Geography and Planning.

The Certificate in Urban and Regional Planning consists of six courses that teach a variety of subject areas in planning including transportation, environmental, land use and housing. The certificate can be earned separately, or as a component of the M.P.A.

The Department's facilities in Ruby Jones Hall and Anderson Hall include GIS laboratories with Arc/GIS suite of software and extensions and ESRI's Business Analyst. GIS applications are continuously updated. Facilities also include global positioning system (GPS) hardware and software, large format plotters, and extensive collections of maps, air photos, and other imagery.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates on the semester system. In addition to the fall and spring semesters there are two five-week summer sessions and a three-week winter session. Admission decisions are based on evaluations of transcripts, work experience and/or standardized test scores, and letters of recommendation. Some assistantships and other types of financial aid are available.

FACULTY:

Gary W. Coutu, Ph.D., Texas A&M, 2001, Associate Professor — GIS, watershed delineation and analysis, remote sensing applications

Kristen B. Crossney, Ph.D., Rutgers University, 2006, Assistant Professor — urban studies, planning and policy, housing

Joy A. Fritschle, Ph.D., Wisconsin-Madison, 2007, Associate Professor — biogeography, environmental planning, GIS

Megan Heckert, Ph.D., Temple University, 2012, Assistant Professor – GIS, urban environmental, sustainability

Dorothy Ives Dewey, Ph.D., Pennsylvania, 1996, Associate Professor — planning, GIS

Matin Katirai, Ph.D., Louisville, 2009, Assistant Professor — business GIS, public health GIS, urban planning

James P. Lewandowski, Ph.D., Ohio State, 1991, Professor — urban/economic, international trade, quantitative methods, GIS

Joan M. Welch, Ph.D., Boston, 1990, Professor — biogeography, conservation, sustainability

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1963
GRADUATE PROGRAM FOUNDED: 1963
DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.
GRANTED 7/1/14-6/30/15: 21 Bachelors, 9 Masters, 6 Ph.D.
STUDENTS IN RESIDENCE: 60 Majors, 24 Masters, 23 Ph.D.
CHAIR: John A. Kupfer
GRADUATE PROGRAM COORDINATOR: Mr. Capers Stokes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Director of Graduate Studies, Department of Geography, University of South Carolina, Columbia, South Carolina 29208. Telephone (803) 777-5234. Fax (803) 777-4972. E-mail: Dr. Jean Ellis, jtellis@sc.edu. For more information about the department and to request graduate application materials see the Geography Department's home page: http://artsandsciences.sc.edu/geog/.

PROGRAMS AND RESEARCH FACILITIES: The department offers training in fundamental geographic skills and the opportunity for advanced study and research in four thematic areas: geographic information sciences, physical geography, nature and society studies, and human geography focused on space, place, inequality and identity. In addition to considerable expertise in a variety of regions in the United States, the department also has international regional expertise in the Middle East, South America and Europe.

Geographic Information Sciences in the department encompasses an understanding of cartography and geovisualization, remote sensing of the environment, spatial analysis and data mining, *spatial high-performance/cloud computing*, and geographic information systems (GIS). GIScience faculty conduct research that addresses basic questions in geographic technologies as well as applications of geospatial technologies to problems in hazards, public health, population studies, landscape ecology, geomorphology, and environmental change.

Physical geographers in our department investigate patterns and processes associated with the atmosphere, biosphere, hydrosphere, and lithosphere and explore the nature and causes of their natural variability and change. Specialized expertise includes climatology and meteorology, fluvial and aeolian geomorphology, hydrology, biogeography and landscape ecology. Many of our physical geographers utilize geospatial technologies in their work.

Nature and Society specialists in the department focus on understanding the patterns and processes of human-environmental interactions. The increasing complexity of coupled natural and human systems necessitates an integrative perspective for understanding local to global environmental transformations and changing human security. Our faculty specialize in a range of relevant areas, including political ecology; human dimensions of global change; risks, vulnerability, and hazards; and resource use and management.

Space, Place, Identity and Inequality are the focus of several human geographers in the department. At the core of the research of this group is a critical approach to understanding how people construct their identity and inequality across scales and locations. The theory-

building and empirical research of this group focuses on the spatiality of economic, cultural, social, and political power.

The department offers Ph.D., M.A., M.S., B.A., and B.S. degrees focused on these thematic areas. The Ph.D. program prepares students for high-level careers in the geographic profession. Ph.D. graduates are prepared for positions in governmental agencies, corporations, and businesses, as well as for careers as college or university faculty members. The M.A. and M.S. programs prepare students for further graduate study and for employment in a broad range of positions in the public and private sector. The M.A. degree is for students with interests in human and regional geography, whereas the M.S. degree is for students with interests in physical/environmental and technical geography, including geographic information science. The department offers the B.A. and B.S. degrees in Geography with concentrations in physical/ environmental, human/economic, and geographic information science. The internship program allows advanced undergraduates and graduate students to acquire on-the-job experience to enhance their professional development and to smooth the transition from university to career settings. The department also offers an undergraduate certificate in geospatial intelligence (GEO-INT) that is accredited by the U.S. Geospatial Intelligence Foundation.

The department is home to several research centers and institutes. The Hazards and Vulnerability Research Institute is an interdisciplinary research and graduate and undergraduate training center focused on the development of theory, data, metrics, methods, applications, and spatial analytical models for understanding the newly emergent field of hazard vulnerability science. The Carolinas Integrated Sciences and Assessments (CISA), which is supported by NOAA's Regional Integrated Sciences and Assessments (RISA) program, works with stakeholders across South Carolina and North Carolina to incorporate climate information into water and coastal management and related decision-making processes. The department also houses the South Carolina Geographic Alliance and the state-funded Center for Excellence in Geographic Education, which provide outreach to primary and secondary school educators and statewide leadership in the application of geographic knowledge to the K-12 curriculum. There are several specialized research and training facilities within the department including: the GISciences Research Lab, the Earth Surface Patterns and Processes Lab Complex, the Beach and Dune Processes Laboratory, and the South Carolina Applied Landscape Ecology Lab.

The department is a founding member of the University Consortium for Geographic Information Science (UCGIS) and has extensive computer resources. These include over 100 computers with ArcGIS, ERDAS, and other state-of-the-art software. With 11 web and data servers (SQL-based), the department has extensive web development and deployment infrastructure. In addition, we have an extensive and well-maintained collection of GPS instruments (Trimble Pro-XR), reflectorless total stations (Leica), hand-held radiometer, high resolution color plotters, scanners, and slide- making equipment. The department employs a full-time systems analyst and is home to the Campus GIS Coordinator, who provides training and technical support to an extensive interdisciplinary research community.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: All majors are required to take introductory courses in physical geography (including a lab) and human geography, as well as a senior capstone seminar, for a total of 10 hours. Additional coursework (21-24 hours) can be taken in one of the three specialized concentrations (physical/environmental, human/economic, geographic information science) or by completing a general geography degree that consists of courses selected from across the curriculum in conjunction with a student's advisor. All faculty are actively involved in the undergraduate program, so virtually all aspects of the field are represented in lower division and upper division courses. Cognate and minor arrangements exist with several professional schools (Business Administration, Journalism, Public Health, etc.) and with other units in the College of Arts and Sciences, such as Earth and Ocean Sciences, Marine Science, Environmental Studies, Media Arts, Political Science, International Studies, and Economics.

GRADUATE: Academic Plan: The Doctoral program has a core requirement of 9 semester hours. Additional electives (12 semester hours) are focused on courses to support the student's research interests. Each student works closely with an advisor to determine the coursework necessary to complete a satisfactory dissertation. Twelve semester hours of doctoral research are required. All doctoral students will serve as an instructor or teaching assistant for at least one course. The Masters degree programs require a minimum of 31-37 semester hours of graduate work. Small informal classes and seminars offer students the chance to work closely with faculty members, while the flexible program requirements offer the opportunity to take related work in other University departments. Specialization in the M.A. and M.S. programs is normally attained by writing a thesis in addition to at least 25 semester hours of coursework. Prior to the start of the fall semester, the department sponsors a required regional field excursion for all entering graduate students.

Admissions Requirements: In support of an application, a student is required to submit official transcripts of all previous study, Graduate Record Examination scores, two letters of recommendation, a brief written statement describing career objectives and probable specialties, and an Application Summary Form. TOEFL scores are required of all applicants for whom English is not the primary language. For the doctoral program, a master's degree is required. For the masters programs, the Department prefers but does not require an applicant to have an undergraduate major in geography; it does, however, require evidence of the intellectual ability to perform graduate-level work, and students with deficient backgrounds in geography may be required to complete remedial work. Please see the department webpage for application deadlines.

Financial Aid: Graduate assistantships carry stipends of $12,500-$13,500 for the academic year. Fellowships are available on a highly competitive basis for up to $21,500 per academic year and are renewable for up to three years. The Graduate School and Department offer travel support for presentations at professional meetings.

FULL-TIME FACULTY:

Jessica Barnes, Ph.D., Columbia, 2010, Assistant Professor—culture and politics of resource use and environmental change in the Middle East, environment and development

Gregory J. Carbone, Ph.D., Wisconsin-Madison, 1990, Professor—climatology, environmental decision-making

Susan L. Cutter, Ph.D., Chicago, 1976, Carolina Distinguished Professor—environmental hazards and risks, environmental policy, natural resources

Kirstin Dow, Ph.D., Clark, 1996, Professor—human dimensions of global environment change, environmental/climate hazards, vulnerability, and adaptation

Jean T. Ellis, PhD., Texas A&M, 2006, Associate Professor—geomorphology, aeolian and coastal sediment transport, coastal management, applied science

Chris Emrich Ph.D., South Carolina, 2005, Research Associate Professor—emergency management, disaster recovery, emergent technology

Melanie Gall, Ph.D., South Carolina, 2007, Research Assistant Professor—environmental hazards & risk; vulnerability, resilience and adaptation, emergency management and policies

*Diansheng Guo, Ph.*D., *Pennsylvania State, 2003, Associate Professor*—geographic information science, spatial data mining, geocomputation

*Conor Harrison, Ph.D., North Carolina, 2014, Assistant Professor—s*ocial impacts of energy and infrastructure, economic geography

April Hiscox, Ph.D., Connecticut, 2006, Assistant Professor—boundary layer meteorology, land-air interactions, forest meteorology

Michael E. Hodgson, Ph.D., South Carolina, 1987, Professor—geographic information science, remote sensing, hazards

L. Allan James, Ph.D., Wisconsin-Madison, 1988, Professor—geomorphology, surface hydrology, water resources, Quaternary science

David Kneas, Ph.D., Yale, 2014, Assistant Professor—environmental anthropology in Latin America, science and technology studies

John A. Kupfer, Ph.D., Iowa, 1995, Professor—biogeography, landscape ecology, public land management, spatial analysis, GIScience

Zhenlong Li, Ph.D., George Mason University, 2015, Assistant Professor—spatial high-performance/cloud computing; big data management, processing and analysis; environmental modeling and simulation

Amy Mills, Ph.D., Texas, 2004, Associate Professor—cultural landscapes and historical memory, urban cultures, place and identity, gender and urban space, nationalism and modernity, Middle East

Jerry Mitchell, Ph.D., South Carolina 1998, Research Associate Professor—geographic education, environmental hazards, tourism

Cary Mock, Ph.D., Oregon, 1994, Professor—synoptic climatology, climate change, historical and Quaternary environments

Caroline R. Nagel, Ph.D., University of Colorado, 1998, Associate Professor—migration, transnationalism, identity, citizenship, Arab immigrants

Cuizhen (Susan) Wang, Ph.D., Michigan State University, 2004, Assistant Professor—bio-environmental remote sensing, GIS, spatial analysis

EMERITI FACULTY:

Allen D. Bushong, Ph.D., Florida, 1961
David Cowen, Ph.D., Ohio State, 1971
Patricia Gilmartin, Ph.D., Kansas, 1980
William L. Graf, Ph.D., Wisconsin Madison, 1974
John F. Jakubs, Ph.D., Ohio State, 1974
Robert L. Janiskee, Ph.D., Illinois, 1974
John R. Jensen, Ph.D., UCLA, 1976
Charles F. Kovacik, Ph.D., Michigan State, 1970
Robert E. Lloyd, Ph.D., Pennsylvania State, 1974
Paul E. Lovingood, Jr., Ph.D., North Carolina, 1962
Julian V. Minghi, Ph.D., Washington, 1962
Lisle S. Mitchell, Ph.D., Ohio State, 1967
William R. Stanley, Ph.D., Pittsburgh, 1966
Theodore R. Steinke, Ph.D., Kansas, 1979

TENNESSEE

MIDDLE TENNESSEE STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES
DATE FOUNDED: 1964
DEGREES OFFERED: B.S. Geosciences; Master of Science in Professional Science (MS-PS)
GRANTED: (B.S.) Spring/Summer/Fall 2015: 21
STUDENTS IN RESIDENCE: 98 Majors (undergraduate), 19 MS-PS
CHAIR: J. Warner Cribb

FOR CATALOG AND FURTHER INFORMATION: Catalog: catalog.mtsu.edu; Undergraduate Admissions: admissions@mtsu.edu, 615-898-2233. Graduate Admissions: graduate@mtsu.edu, 615-898-2840. Department of Geosciences: 615-898-2726; Fax: 615-898-5592; E-mail: Karen.Wolfe@mtsu.edu; Internet: mtsu.edu/geosciences

PROGRAMS AND RESEARCH FACILITIES: The B.S. in Geosciences has emphases in Physical Geography and Geology. Within these major emphases are career tracks (patterns) designed to provide the student with exceptional career opportunities. In the Physical Geography emphasis, the two career tracks are Physical Geography, and Geographic Techniques (primarily GIS, remote sensing, and cartography). The Geology emphasis has three career tracks: Geology, Earth Science, and Earth Science for Teachers. Three undergraduate minors are offered: Physical Geography, Remote Sensing, and Geology/Earth Science. Two graduate minors are offered: Physical Geography, and Earth Science/Geology. The Master of Science in Professional Science, which is certified as a Professional Science Master's degree, has three career tracks: GIS, Environmental Geosystems, and General Geoscience.

Departmental programs are supported by the Geosciences Student Computer Laboratory and the Ralph O. Fullerton Laboratory for Spatial Technology. The student computer laboratory is equipped with high-end workstations, scanners and printers. The Ralph O. Fullerton Laboratory for Spatial Technology has 15 high-end workstations, 42-inch-wide Calcomp scanner, 42-inch-wide HP Designjet printer/plotter, network storage system, survey-grade Trimble GeoExplorer GPS equipment, and photogrammetrically-calibrated digital cameras. Software packages include ESRI ArcGIS, ERDAS Imagine, ENVI, PhotoModeler Scanner photogrammetry program, eCognition, LP360 Lidar analysis program, and Trimble Pathfinder Office. The Ralph O. Fullerton Laboratory for Spatial Technology also serves as the headquarters for the MTSU-Geospatial Research Center. Also available are small-format aerial photography platforms, and virtual reality equipment.

Students can gain practical experience in the use and application of geospatial techniques through a variety of sponsored research and production projects, and internships.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Middle Tennessee State University is on the semester plan. Admissions requirements are listed in the current catalog, which may be obtained as indicated above. Financial aid information may be obtained from mtsu.edu/financial-aid.

FACULTY:

Jeremy W. Aber, Ph.D., Kansas State University, 2012, Assistant Professor—GIS, cartography, small-format aerial photography, virtual geographics, video games

Mark J. Abolins, Ph.D., California Institute of Technology, 1999, Professor—structural geology, tectonics

Patricia Boda, Ph.D., University of Minnesota, 2008, Associate Professor—GIS, cartography, environmental issues and concerns, sustainability, biogeography

J. Warner Cribb, Ph.D., Ohio State University, 1993, Department Chair, Professor—mineralogy, igneous petrography

Racha El Kadiri, Ph.D., Western Michigan University, 2014, Assistant Professor—hydrology, hydrogeology, remote sensing, GIS, natural hazards, data mining

Clayton D. Harris, Ph.D., Indiana University, 1992, Associate Professor—sedimentology, oceanography, environmental geology

James A. Henry, Ph.D., University of Kansas, 1978, Professor—physical geography, climatology/meteorology, remote sensing, regional geomorphology of the United States

Melissa Lobegeier, Ph.D., James Cook University, 2001, Associate Professor—paleontology, marine geology

Henrique G. Momm, Ph.D., University of Mississippi, 2008, Director, MTSU-Geospatial Research Center, Assistant Professor—remote sensing, GIS, watershed physical processes, machine learning, geoinformatics, geomorphometry

Ronald L. Zawislak, Ph.D., University of Wyoming, 1980, Professor—geophysics, structural geology, mathematical and computer techniques in geology

LECTURERS AND ACADEMIC PROFESSIONALS:

Alan Brown, M.S., Illinois State University, 2002, Lecturer—hydrogeology, field work, vertebrate paleontology

Laura R. Collins, M.S., Mississippi State University, 2005, Lecturer—Earth science, geology

Michael W. Hiett, M.S., University of Kentucky, 1995, Lecturer and Earth Science Lab Coordinator—Earth science, geology

Zada Law, M.A., University of Wisconsin, 1980, Director, Ralph O. Fullerton Laboratory for Spatial Technology—GIS

EMERITI FACULTY:

Ralph O. Fullerton, Ed.D., Indiana University, 1971

Burton W. Bordine, Ph.D., Louisiana State University, 1974

MIDDLE TENNESSEE STATE UNIVERSITY

GLOBAL STUDIES AND CULTURAL GEOGRAPHY PROGRAM

DATE FOUNDED: 2014

DEGREES OFFERED: B.S. Global Studies and Cultural Geography with Concentrations in Cultural Geography, Geography (Cultural) Teacher Licensure and Global Studies

GRANTED: (B.S.) Spring/Summer/Fall 2015: 37

STUDENTS IN RESIDENCE: 111 Majors (undergraduate)

CHAIR: Doug Heffington

PROGRAM ADMINISTRATIVE ASSISTANT: Natasha Callison

FOR CATALOG AND FURTHER INFORMATION: Catalog: catalog.mtsu.edu; Undergraduate Admissions: admissions@mtsu.edu (615.898.2233) or mtonestop@mtsu.edu (615.898.2111); Global Studies and Cultural Geography Program: 615.494.7744 or 615.898.5978, Fax: 615.494.8726; E-mail: natasha.callison@mtsu.edu or doug.heffington@mtsu.edu;
Web: mtsu.edu/global or mtglobal@mtsu.edu

PROGRAM AND RESEARCH FACILITIES: The B.S in Global Studies and Cultural Geography has three concentrations: Cultural Geography, Geography (Cultural) Teacher Licensure and Global Studies. A combination of the disciplinary strengths of Cultural Geography and Global Studies offers students a comprehensive, hands-on education about the world that can skillfully position them for a variety of careers – locally and globally. Numerous education abroad and internship opportunities exist for majors and minors. Cultural Geography concentration(s) allow students to critically engage a range of issues relating to such topics as human migration, human/environment interactions and cultural landscape morphology. The Global Studies concentration empowers students to critically examine, understand and reflect upon local, regional and global connections between peoples, places and events from cross-cultural, interdisciplinary perspectives. Two undergraduate minors are offered: Cultural Geography and Global Studies with a third, Peace and Conflict Studies proposed. The program houses the U.S. Culture and Education Certificate program for international students.

Program concentrations are supported by education abroad programs and professional internships along with geographic field work. The Cultural Geography concentration maintains research facilities at Radnor Lake State Natural Area in Nashville, TN and the Global Studies program has an exchange agreement through ISA in Cusco, Peru. Cultural Geography is supported with ArcGIS Desktop, Policy Map and Social Explorer through MTSU library system.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Middle Tennessee State University operates on the semester system. Admission requirements are provided in the current catalog which may be accessed through information provided above. Financial aid information may be accessed directly through the mtsu.edu/financial-aid web site.

FACULTY:

Jim Chaney, Ph.D. Louisiana State University, 2013, Instructor — Latin America, migration, refugees, human trafficking, ethnic landscapes, geo-political economies, cultural and urban geography

LaToya Eaves, Ph.D. Florida International University, 2014, Instructor — American South, gender, sexualities, race and racialization, political geography, labor and Black feminism

Derek Frisby, Ph.D. University of Alabama, 2004, Assistant Professor — historical geography of U.S and American South, landscapes of war and remembrance, geography education and GIS

Hari Garbharran, Ph.D. Southern Illinois University, 1989, Professor — world regional geography, global non-profits, recreation and tourism geography

Doug Heffington, Ph.D. University of Oklahoma, 1992, Professor — rural and agricultural geography, geography of indigenous peoples, folk geography, eco-tourism, U.S., Canada and Latin America

Corey Perkins, M.A. University of Oslo (Norway), 2012, Instructor — globalization, popular culture and cross-cultural studies

Antonio Vasquez, Ph.D. Michigan State University, 2013, Instructor — migrants, social justice, peace and conflict studies, sustainable development and U.S./Mexic borderlands

Zhen Wang, Ph.D. University of Minnesota, 2013, Assistant Professor — China, public policy and public spaces and cross-cultural studies

AFFILIATED/ADJUNCT FACULTY:

Peter Cunningham, Re.D. Indiana University, 1985, Professor and Special Assistant to University Provost — Europe, recreation and tourism, cross-cultural studies and U.S. Culture and Education Certificate

Karen Dearing, M.LIS University of Alabama, 1991, Assistant Professor Walker University Library — geographic archives, world regional geography and GIS

Lisa Eastland, M.S. Mississippi State University, 2009, Adjunct — world regional geography

Tim Langille, Ph.D. University of Toronto, 2013, Adjunct — global genocide, religion, peace and conflict studies and Jewish studies

Lisa Mayo, M.S. Mississippi State University, 2000, Associate Professor Motlow State Community College — physical geography, public geography/geology, U.S. and Canada

Justin Phalichanh, M.A. Brandeis University, 2010, Adjunct — human trafficking and cross-cultural studies

David Schmidt, Ph.D. University of Wisconsin, 1997, Vice Provost for International Affairs — global education

UNIVERSITY OF MEMPHIS

DEPARTMENT OF EARTH SCIENCES
DATE FOUNDED: 1925 (Merged with Geological Sciences in 2002)
DEGREES OFFERED: B.A., Earth Sciences, Geography concentration; M.S., Earth Sciences, Geography concentration; M.A., Earth Sciences; Ph.D., Earth Sciences
GRANTED 8/22/14-8/22/15: Earth Sciences 17 Bachelors, 7 Masters, 6 Geographic Information System Certificates, 4 Ph.D.
CHAIR: Dr. Daniel Larsen
DEPARTMENT ADMINISTRATIVE ASSOC.: Ms. Julia Crutchfield

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Ms. Julia Crutchfield, Department of Earth Sciences, University of Memphis, Johnson Hall 111, Memphis, TN. Telephone (901) 678-2177. Fax (901) 678-2178. E-mail: jscrtchf@memphis.edu. Internet: http://uofm.memphis.edu/earthsciences/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Earth Sciences offers B.A. degrees in Earth Sciences with concentrations in Archaeology, Geography, and Geology. We offer M.S. degrees in Earth Sciences with concentrations in Archaeology, Geography, Geology and Interdisciplinary Studies, a non-thesis M.A. degree in Earth Sciences and a Ph.D. in Earth Sciences. A graduate certificate is offered in Geographic Information Systems, which is available to all graduate students on campus and nearby Colleges. The Certificate program offers online GIS courses. Earth Sciences at the University of Memphis provides an interdisciplinary undergraduate program where students take one or more courses in each of the disciplines, but achieve the concentration requirements by focusing coursework in a specific area. The University of Memphis is known for its extensive internship programs and for the Helen Hardin Honors program, one of the largest Honors programs in the state of Tennessee. Earth Science faculty encourages students to take advantage of these programs and explore research opportunities in the undergraduate program. The graduate program emphasizes applied Earth Sciences research, and is especially well suited for interdisciplinary research in our focus areas of hazards, geomorphology, Quaternary studies, water resources, meteorology and climate studies, remote sensing and geo-spatial analysis. Applied geography topics, perspectives, and techniques have proven to be strong components of our Earth Sciences doctoral program. The department has a state-of-the-art University computer facility in the building for computer-intensive courses. Additionally, the department has survey-grade GPS equipment, field mapping GPS units, state-of-the-art GIS and Remote Sensing software, and a variety of other research facilities to support student research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University of Memphis is on a semester plan. Information regarding admission to the University is available at http://www.memphis.edu/admissions/ or contact Office of Admissions, University of Memphis, 101 Wilder Tower, Memphis, TN. Financial Aid information may be obtained from the Office of Financial Aid, 103 Wilder Tower, University of Memphis, Memphis, TN 38152 (http://www.memphis.edu/financialaid/).

FACULTY:
Angela Antipova, Ph.D., Louisiana State U, 2010, Assistant Professor—GIS and spatial analysis, Medical Geography, Transportation Geography, Urban Geography
Jerry Bartholomew, Ph.D., Pennsylvania State University, 1964, Professor—Hazards, Tectonics and Quaternary Studies
Dorian Burnette, Ph.D., University of Arkansas, 2009, Assistant Professor—Meteorology, Climatology, Climate Change, Dendroclimatology, Extreme Weather and Climate Events
Robert Connolly, Ph.D., University Illinois at Urbana-Champaign, 1996, Assistant Professor and Director, Chucalissa Museum—Museum studies, Archaeology, Eastern Woodlands cultures
Randel Cox, Ph.D., University of Missouri, 1995, Professor—Active tectonic, Geomorphology, Hazards
David Dye, Ph.D., Washington University, St. Louis, 1980, Professor—Archaeology
Arleen Hill, Ph.D., University of South Carolina, 2002, Associate Professor—Hazards, Nature-Society Interaction, Spatial Analysis
Julie Johnson, Ph.D., Florida International University, Instructor—Igneous Petrology, Mineralology, Geochemistry
Hsiang-te Kung, Ph.D., University of Tennessee-Knoxville, 1980, Professor and Director, Confucius Institute—Water Resources, Hazards, Geomorphology
Youngsang Kwon, Ph.D., SUNY-Buffalo, 2012, Assistant Professor—Remote Sensing, Spatial Statistics, GIS, Forest Dynamics, Terrestrial Carbon Cycling, Climate Change
Daniel Larsen, Ph.D., New Mexico, 1994, Professor and Chair—Hydrogeology, Soils, Low-temperature geochemistry, Sedimentology
Andrew Mickelson, Ph.D., Ohio State University, 2002, Associate Professor—Archaeology of Eastern North America, spatial analysis and GIS, Geophysical methods in Archaeology
Esra Ozdenerol, Ph.D., Louisiana State University, 2000, Associate Professor—GIS, Remote Sensing, Spatial Analytical Methods, Medical Geography and Landscape Ecology
Ryan Parish, Ph.D., University of Memphis, 2013, Assistant Professor—Geoarchaeology, Archaeometry, Chert Sourcing, Reflectance Spectroscopy, Hunter-gatherer Societies, Initial Colonization of the Americas
Jose Pujol, Ph.D., University of Wyoming, 1985, Professor—Earthquake and Exploration Seismology
Roy Van Arsdale, Ph.D., University of Utah, 1979, Professor—Active tectonics, Geomorphology, Structural Geology

UNIVERSITY OF TENNESSEE, KNOXVILLE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1914
GRADUATE PROGRAM FOUNDED: 1928
DEGREES OFFERED: B.A., M.S., Ph.D.
GRANTED 7/1/2014-06/30/2015: 21 Bachelors, 18 Masters, 2 Ph.D.
STUDENTS IN RESIDENCE: 70 Majors, 15 Masters, 27 Ph.D.
NOT IN RESIDENCE: 4 Masters, 8 Ph.D.
HEAD: Derek H. Alderman
ASSOCIATE HEAD: Henri D. Grissino-Mayer
DIRECTOR OF GRADUATE STUDIES: Joshua Inwood

FOR FURTHER INFORMATION WRITE TO: Department of Geography, 304 Burchfiel Geography Building, University of Tennessee, Knoxville, Tennessee 37996-0925. Telephone (865) 974-2418. Fax (865) 974-6025. E-mail: utkgeog@utk.edu.
Home page: http://geography.utk.edu/.

PROGRAMS AND RESEARCH & OUTREACH FACILITIES:
UNDERGRADUATE: Geography, in the College of Arts and Sciences, offers a B.A. degree with five concentrations or specializations from which the student can choose: (1) Geospatial Science and Technology; (2) Landscapes and Environments; (3)

Climate and Climate Change; (4) Space, Society, and Culture; and (5) World Cities and Economies. The major emphasizes the breadth of the discipline with concentrations allowing students to assemble a mix of courses and skills uniquely suited to their interests and career needs. Skills acquired include GIS, field and lab techniques, and experience in qualitative and quantitative analysis. The department has areas of special strength in physical geography/climate change, urban/economic geography, transportation geography/spatial analysis, and cultural/social geography. Courses required for the major are Introduction to GIS and Geovisualization, a senior "Practicing Geography" capstone seminar, a methods course, and concentration-related courses. Faculty members make special efforts to involve undergraduates in their research. Students have obtained internships with NOAA, NASA, and National Geographic as well as local firms, campus research units, and nearby government agencies, including the Oak Ridge National Laboratory.

GRADUATE: The faculty, with extensive world-wide experience (East Asia, China, Latin America, Europe, the American South, the American West, and Canada), is exceptionally qualified to direct graduate research in: transportation, technology, and society; population, migration, and politics; race/ethnicity, identity, and social justice; cities, urban economies, trade and globalization; biogeography; climate and environmental history; geomorphology and soils; human-environment interaction and water resources; geographic information science; GIS database design and programming; geo-computation and environmental modeling; statistical mapping and census data analysis; socio-economic and environmental applications for GIS; and remote sensing and spatial modeling with an emphasis on natural resource assessment.

The Master's Degree emphasizes research and professional development, and offers opportunities to acquire substantial depth in a sub-field. The degree requires a minimum of 30 hours of approved graduate credit. Required courses include Introduction to Geographical Research, Research Design and Field Methods, Quantitative Methods, a minimum of three hours in a research seminar, and participation in the departmental Colloquium. Students without a sound undergraduate background in geography may require additional credit hours. Up to six hours of thesis credit may be counted toward the degree. Although a non-thesis degree option does exist, the thesis approach is strongly recommended for most students.

The Ph.D. is granted to candidates who demonstrate proficiency in conducting independent research and complete a dissertation that makes a significant and original contribution to geography. Course requirements are determined by the student's doctoral committee, but must include the basic graduate courses (Geographic Concept and Method, Topics in Quantitative or Qualitative Methods), nine hours of credit in related fields outside the department, three doctoral seminars, and participation in the departmental Colloquium. Competence in theories and methodologies pertinent to the student's research specializations (including foreign languages, when appropriate) are also required. Admission to candidacy is granted following successful completion of written comprehensive examinations and an oral examination over the student's program and dissertation proposal.

RESEARCH & OUTREACH FACILITIES: The Burchfiel Geography Building (BGB) is centrally located near other natural science departments and various University resources. Both the University and Department computer labs contain a wide array of GIS, remote sensing, and statistical software. The BGB houses GIS and Remote Sensing facilities; a GIS Outreach and Public Engagement Laboratory; the Tennessee Geographic Alliance; laboratories for research on soil and watershed dynamics; and three physical geography teaching laboratories. The nearby Science and Engineering Building houses facilities for global environmental change research, including laboratories for analysis of organic and mineral sediment, soils, pollen grains and other microfossils, and tree rings; and laboratory space for climate modeling, computer imaging of fossil charcoal samples, and scanning electron microscopy. The Claxton Lab Facility, which includes numerous computer workstations, is used for various research activities by faculty and students engaged in geospatial science, physical geography, and human geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
The University of Tennessee operates on a semester system. General information on admission requirements may be obtained from Graduate School, 111 Student Services Building, Knoxville, TN 37996-0211 (gradschool.utk.edu/). Students interested in geography graduate studies should contact the department (utkgeog@utk.edu) or visit the department's web page. Interested students are also encouraged to follow the department on Facebook (www.facebook.com/UTKGeography) and Twitter (@UTKGeography).

Although graduate students may begin during any term, the fall term is strongly recommended. A 3.0 (4.0 scale) or higher undergraduate grade point average is normally required for admission to a graduate degree program. Official transcripts of all previous college work, three letters of recommendation and GRE scores are required. No single criterion will dominate, but the aggregate should provide strong evidence of ability and potential. Any person whose native language is not English must submit results of the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). A minimum score of 550 on the paper test or 80 on the Internet-based test typically with a score of 20 on each of the sections of the test (reading, listening, writing, and speaking) is required for admission consideration. For the IELTS, a minimum score of 6.5 is required. The score must be no more than two years old from the requested date of entry. Applicants who have received a degree from an accredited U.S. institution within the past two years are exempt from the TOEFL requirement. Admission to the geography graduate program is competitive and subject to the availability of space and faculty advisors.

Several types of financial aid are available, including graduate teaching assistantships and associateships that include a stipend and tuition waiver. Research grants and contracts provide additional opportunities for support in the form of graduate research assistantships, and part-time research positions are often available through various campus research units and through the Oak Ridge National Laboratory. In addition, the Graduate School offers a variety of graduate fellowship opportunities. Highly qualified PhD applicants might be eligible for a Chancellor Fellowship that supplements graduate teaching assistantship stipends.

FACULTY:
Derek Alderman, Ph.D.., Georgia, 1998, Professor — cultural, historical, public memory, American South, tourism, race
Budhendra L. Bhaduri, Ph.D., Purdue, 1998, Professor — Geographic data science, Population distribution and dynamics, Energy geography, Emergency preparedness and response
Kelsey N. Ellis, Ph.D., Florida State University, 2010, Assistant Professor — climatology, meteorology, atmospheric hazards, human-environment interaction
Ronald A. Foresta, Ph.D., Rutgers, 1979, Professor — urban revitalization, landscape and ideology, Latin America
Henri D. Grissino-Mayer, Ph.D., Arizona, 1995, Professor — global change, biogeography, dendrochronology, climatology, forest ecology, quantitative methods
Sally P. Horn, Ph.D., UC, Berkeley, 1986, Professor — biogeography, quaternary environments, Latin America
Joshua Inwood, Ph.D.., Georgia, 2007, Associate Professor — urban, cultural, critical race theory, qualitative methods economic geography
Ronald V. Kalafsky, Ph.D., SUNY at Buffalo, 2002, Associate Professor — economic geography

Hyun Kim, Ph.D., Ohio State University, 2008, Assistant Professor — transportation, telecommunications, geographic information science, spatial optimization and modeling

Yingkui Li, Ph.D., Peking University, 2001, Associate Professor — geomorphology and paleo-climate reconstruction, Cosmogenic nuclides, GIS/spatial analysis, Tibetan Plateau and Tian Shan

Isabel Solange Muñoz, Ph.D., University of Texas-Austin, 2014, Assistant Professor — Latin America, urban geography, immigration, race and ethnicity, social movements

Nicholas Nagle, Ph.D., University of California-Santa Barbara, 2005, Associate Professor — spatial analysis, population geography, urban geography

Madhuri Sharma, Ph.D., Ohio State, 2009, Assistant Professor — urban-social dimensions of race and ethnicity, poverty and inequality, mixed-method approaches

Shih-Lung Shaw, Ph.D., Ohio State, 1986, Professor — transportation, geographic information science, space-time analysis

Robert Stewart, Ph.D., Tennessee, 2011, Assistant Professor — GIS, risk and decision analysis, environmental regulatory guidance

Liem T. Tran, Ph.D., Hawaii, 1999, Associate Professor — environmental modeling, integrated environmental assessment

Francoise Micheline van Riemsdijk, Ph.D., Colorado, 2008, Associate Professor — population, migration, urban, gender, qualitative methods

Robert A. Washington-Allen, Ph.D., Utah State University, 2003, Assistant Professor — biogeography, complex systems, landscape ecology, pastoralism, remote sensing, spatial modeling

TECHNICAL STAFF:

Kurt Butefish, M.S., University of Tennessee, 1986, Coordinator of Tennessee Geographic Alliance — geographic education, curriculum

Parmanand Sinha, Ph.D., University of Texas-Dallas, 2015, Post-Doc — spatial statistics, spatial optimization, urban economies

ADJUNCT FACULTY:

Maria Caffrey, Ph.D., University of Tennessee, 2011, Adjunct Assistant Professor — paleo-environmental reconstruction, palynology, quaternary environments

Jon Harbor, Ph.D., Washington (Seattle), 1990, Adjunct Professor — geomorphology, climate change, water resources, land use impact

Matthew Heric, Ph.D., Virginia Tech, 1996, Adjunct Assistant Professor — GIS, remote sensing, cultural modelling, software development

Chad Lane, Ph.D., Tennessee, 2007, Adjunct Assistant Professor — biogeography

Cheng Liu, Ph.D., Tennessee, 1986, Adjunct Associate Professor — transportation, geographic information systems

Kenneth H. Orvis, Ph.D., UC Berkeley, 1992, Adjunct Associate Professor — landscape, climatology, global change, paleo-climate

Robert Pavlowsky, Ph.D., Wisconsin (Madison), 1995, Adjunct Professor — geomorphology, water quality, soils

Dali Wang, Ph.D., NY Rensselaer Polytechnic Institute, Adjunct Assistant Professor — environmental engineering

Thomas Wilbanks, Ph.D., Syracuse University, Adjunct Professor — energy and environmental policy, global change, technology and society

EMERITUS FACULTY:

Charles S. Aiken, Ph.D., Georgia, 1969, Professor Emeritus — rural, North America, U.S. South

Thomas L. Bell, Ph.D., Iowa, 1973, Professor Emeritus — location theory, urban, economic, geographic thought and methodology, popular culture

Leonard W. Brinkman, Ph.D., Wisconsin, 1964, Associate Professor Emeritus — historical, North America, Appalachia

Carol P. Harden, Ph.D., Colorado, Boulder, 1987, Professor Emeritus — geomorphology, watershed dynamics, Latin America

Lydia Mihelic Pulsipher, Ph.D., Southern Illinois, 1977, Professor Emeritus — historical, cultural ecology, sustainable development, gender, critical theory

Bruce A. Ralston, Ph.D., Northwestern, 1976, Professor Emeritus — transportation and location, diffusion theory, geographic information science

TEXAS

TEXAS A&M UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1968
GRADUATE PROGRAM FOUNDED: 1968
DEGREES OFFERED: B.S. Geography, B.S. Geographic Information Science and Technology, B.S. Environmental Studies, B.S. Spatial Sciences, M.S., Ph.D.
GRANTED 9/1/14-8/31/15: 65 Bachelors 10 Masters, 5 Ph.D.
STUDENTS IN RESIDENCE: 293 Majors, 32 Masters, 23 Ph.D. Geography, Geographic Information Sciences and Technology, Environmental Studies and Spatial Sciences Majors, Masters, Ph.D.
NOT IN RESIDENCE: 2 B.S., 9 M.S., 18 Ph.D.
HEAD: David M. Cairns
DEPARTMENT ADMINISTRATIVE ASST: Carria Collins

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Director, Department of Geography, College of Geosciences, MS 3147, Texas A&M University, College Station, Texas 77843-3147. Telephone (979) 845-7141. Fax (979) 862-4487. E-mail: kelrod@tamu.edu. Internet: http://geography.tamu.edu/. Online catalog can be obtained from Admissions, at http://catalog.tamu.edu/. An application is available on line at www.applytexas.org or http://admissions.tamu.edu/.

PROGRAMS AND RESEARCH FACILITIES: The department offers advanced training in five themes. *Physical geography* emphasizes the study of surficial processes in the fields of geomorphology, biogeography, climatology and hydrology. *Human geography* includes programs in cultural, historical, economic, urban, and political geography. A third theme integrates *Human-environment interactions*; specific foci are conservation and development, cultural and political ecologies, environmental history, environmental justice, environmental policy, water resources and land-use change. The *Geography Education* program emphasizes research on how geography is taught and learned. Topics include spatial learning, effective use of information technology, assessment, and institutional factors in geography education. The Geographic Science and Technology theme aims to provide modern training in theory and application of GIS and remote sensing.

The department maintains a comprehensive spatial analysis and mapping laboratory, including both workstation and networked PC-based hardware and software for geographical information systems, remote sensing, digital image processing and computer mapping and graphics. There are three physical geography teaching laboratories and six research laboratories. The equipment and facilities include standard gear for field surveying and mapping, soil and sediment analysis, vegetation analysis, water quality and hydrology, as well as specialized equipment. Students and faculty are actively involved in the interdisciplinary research and teaching activities in the College of

Geosciences. The College comprises programs in geology, geophysics, meteorology, oceanography and geography. The department is a partner in the College's Light Stable Isotope Analytical Facility. Geographers participate in other interdisciplinary groups or facilities, including the George Bush School of Government and Public Service, Whole Systems Genomics Institute, Applied Biodiversity Science Program, Center for Science and Technology Policy and Ethics, the Spatial Sciences Laboratory, Texas Center for Climate Studies, The Texas A&M Water Program, and the Center for the Study of First Americans. The department collaborates with the Department of Ecosystem and Science Management to administer Graduate Certificate Programs in Remote Sensing and Geographic Information Sciences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: This program is on the semester system. The B.S. degree requires 120 credit hours of which 55 must be in geography. Applicants are evaluated on an individual basis that assesses academic achievement, potential for success, and other factors. No single factor may be used for the determination of admission or rejection of an applicant. The department offers a B.S. in geography with an option in Geographic Information Science that requires 24 units of directed electives in addition to the requirements of the Major. The department offers minors in Geography and Geoinformatics, and administers B.S. degree programs in Environmental Studies and in Spatial Sciences.

Graduate: Three degree programs are offered by the department: M.S., M. Geosciences, and Ph.D. Applicants must submit an application form and fee, undergraduate transcript and graduate transcript (Ph.D. only), GRE scores (verbal and quantitative), three letters of recommendation and a statement of purpose. Applications for Fall 2015 should be submitted by January 1, 2015, for full consideration for fellowships and scholarships. Research and teaching assistantships and fellowships are available through the Department and the University.

FULL AND PART-TIME FACULTY:

Michael Bishop, Ph.D., Indiana State University, 1987. Professor & Haynes Chair in Geosciences—Remote sensing, GIS, geomorphometry, spatial analysis and modeling, mountain geomorphology, cryospheric sciences

Christian Brannstrom, Ph.D., Wisconsin, 1998, Professor and Director of Environmental Programs—political/cultural ecology, historical geography, agriculture, Latin America

David M. Cairns, Ph.D., Iowa, 1995, Professor and Department Head—biogeography, landscape ecology, ecosystem modeling, GIS applications

Anthony M. Filippi, Ph.D., South Carolina 2003, Associate Professor—remote sensing, GIS, ocean optics, machine learning

Oliver W. Frauenfeld, Ph.D., University of Virginia, 2003, Assistant Professor—synoptic climatology, surface-atmosphere interactions, climate change

John R. Giardino, Ph.D., P.G., Nebraska, 1979, Professor and Head of Geology and Geophysics Department—periglacial, engineering and fluvial geomorphology, Earth science education (joint appointment with Geology and Geophysics)

Daniel Goldberg, PhD., University of Southern California, 2010, Assistant Professor—*GIS, CyberGIS, GIS Programming & Algorithms, Spatial Databases, HealthGIS* (joint appointment with Computer Science)

Burak Güneralp, Ph.D., Illinois, Urbana-Champaign, Research Assistant Professor—urbanization and global environmental change, urban land-use change, interactions between socio-economic and biophysical systems, systems modeling, remote-sensing applications

Inci Guneralp, Ph.D, Illinois, Urbana-Champaign, Associate Professor—fluvial geomorphology, lowland rivers, spatio-temporal modeling, human impact on fluvial systems

Daikwon Han, Ph.D., SUNY-Buffalo, 2003, Associate Professor—Spatial Epidemiology, Environmental Health/Exposure Assessment, Health GIS and Geography (joint appointment with Epidemiology and Biostatistics, School of Public Health).

Chris Houser, Ph.D., Toronto, 2004, Associate Professor and Associate Dean for Academic Affairs and Faculty Development—process geomorphology, ecogeomorphology, coastal and aeolian environments (joint appointment with Geology and Geophysics)

Peter J. Hugill, Ph.D., Syracuse, 1977, Professor—cultural/historical, political, world system theory, landscape, Anglo-America

Wendy Jepson, Ph.D., UCLA, 2003, Associate Professor and Undergraduate Program Director—land-use and land-cover change, political ecology, economic geography, water resources, environmental justice, Latin America

Andrew G. Klein, Ph.D., Cornell, 1997, Professor—remote sensing, GIS, glacial geomorphology, cryosphere, hydrology

Charles W. Lafon, Ph.D., Tennessee, 2000, Professor and Assistant Department Head—biogeography, vegetation dynamics

Kathleen O'Reilly, Ph.D., Iowa, 2002, Associate Professor—political/cultural ecology, gender, water resources, South Asia, queer studies

Wendy W. Patzewitsch, Ph.D., Texas A&M University, 2007, Lecturer—historical geography, Texas water resources

Erik Prout, Ph.D., Louisiana State, 2001, Instructional Assistant Professor—cultural and political geography

E. Brendan Roark, Ph.D., California, Berkeley, 2005, Associate Professor—paleoceanography, geochemistry, earth system sciences, corals, deep-sea corals

Jonathan M. Smith, Ph.D., Syracuse, 1991, Professor—cultural, historical, history and philosophy of geography, United States

Vatche P. Tchakerian, Ph.D., UCLA, 1989, Professor—desert and coastal geomorphology, aeolian environments, Quaternary (joint appointment with Geology and Geophysics)

Michael R. Waters, Ph.D., Arizona, 1983, Professor—geoarcheology, fluvial geomorphology, Quaternary (joint appointment with Anthropology)

EMERITI FACULTY:

Robert S. Bednarz, Ph.D., Chicago, 1975, Professor Emeritus—spatial thinking and cognition, geographic education, economic, urban, property value, taxation

Sarah W. Bednarz, Ph.D., Texas A&M, 1992, Professor Emerita—geography education, human geography, curriculum development, environmental education, GIScience and education, education for sustainable development

Clarissa T. Kimber, Ph.D., Wisconsin, 1969, Professor Emerita—plant geography, sustainable agriculture, Caribbean

James B. Kracht, Ph.D., Washington, 1971, Professor Emeritus—geographic education, curriculum development, urban, United States

AFFILIATED AND GRADUATE FACULTY:

Ellen Feely Kohl, Ph.D., Georgia, 2015, Visiting Assistant Professor—Urban geography, human-environment interactions, environmental justice, critical social theory

John Lauermann, Ph.D., Clark University, 2015, Visiting Assistant Professor—urban/economic geography, political economy, urban policy

Julie Loisel, Ph.D., Lehigh University, 2012, Visiting Assistant Professor—climate change ecology, paleoclimate reconstructions, high-latitude ecosystem dynamics, peatland carbon cycling, global biogeochemical cycling.

Jim Norwine, Ph.D., Indiana State, 1971, Regents Professor, Texas A&M University-Kingsville, Kingsville, TX—climate, philosophy of geography

Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair, University of Alabama—geomorphology, coastal and aeolian environments

John D. Vitek, Ph.D., University of Iowa, 1973, Department of Geology and Geophysics Professor—periglacial geomorphology, earth science education

Jayme Walenta, Ph.D., University of British Columbia, 2008, Visiting Assistant Professor—economic and environmental geography

TEXAS CHRISTIAN UNIVERSITY

DEPARTMENT OF HISTORY AND GEOGRAPHY
DATE FOUNDED: 2003
DEGREES OFFERED: B.A., B.S. in Geography
GRANTED 9/1/14-8/15/15: 7 Bachelors
MAJORS: 28 majors
CHAIR: Jodi Campbell
DEPARTMENT ADMINISTRATIVE ASSTS: Dana Summers, Stacey Theisen

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Benjamin F. Tillman, Department of History and Geography, TCU Box 297260, Fort Worth, Texas 76129. Telephone (817) 257-6301. Fax (817) 257-5650. E-mail: b.tillman@tcu.edu

PROGRAMS AND RESEARCH FACILITIES: The Geography Program offers Bachelor of Arts and Bachelor of Science degrees that require a minimum of 124 hours. Students majoring in geography must complete 30 hours in geography, including World Regional Geography, Human Geography, and GIS, and may select additional courses from a menu of regional and topical courses. Texas Christian University offers Geography majors the opportunity to participate with faculty in their research in historical urban geography, Latin American geography, geomorphology, and water resources. Field trips are a component of most upper-division geography courses and summer study abroad programs are available. Geography faculty members are located in the Department of History and Geography and the Department of Environmental Science and students have the advantage of participating in the activities of both departments. Note: Geography will become a stand-alone department in June 2016.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Texas Christian University operates on the semester system. Undergraduate applicants must satisfy the general admission requirements for the University. Detailed information concerning admission requirements and financial aid can be found on the University's web page www.tcu.edu.

FACULTY:

Sean M. Crotty, Ph.D., San Diego State University and University of California at Santa Barbara, 2012, Assistant Professor—economic, urban, North America

Jeffrey B. Roet, Ph.D., Northwestern, 1982, Lecturer—urban, cultural, historical, United States, Western Europe

Andrew Schoolmaster, Ph.D., Kent State 1979, Dean of AddRan College of Humanities and Social Sciences—applied

Michael Slattery, D.Phil., University of Oxford, 1994, Professor, Chair of Department of Environmental Science, Director of Institute for Environmental Studies—hydrology, climatology, geomorphology, soils

Benjamin F. Tillman, Ph.D., Louisiana State, 1999, Associate Professor—cultural, historical, Latin America

Kanika Verma, Ph.D., Texas State University, 2014, Lecturer—World Regional Geography

Kyle Walker, Ph.D., University of Minnesota, 2012, Assistant Professor—GIS, urban geography

TEXAS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1965
GRADUATE PROGRAM FOUNDED: 1983
DEGREES OFFERED: B.A., B.S. in Geography; B.S. in Resource and Environmental Studies, Geographic Information Science, Physical Geography, Water Studies, Urban and Regional Planning; Certificates in GIS, Location Analysis, Environmental Interpretation, and Water Resources Policy; Master of Applied Geography (M.A.G.); Master of Science in Geography (M.S.); Ph.D. in Geography, Ph.D. in Geographic Information Science, and Ph.D. in Geographic Education.
GRANTED 9/1/14-8/31/15: 185 Bachelors, 8 Masters, 14 Ph.D.
STUDENTS IN RESIDENCE: 637 Majors, 56 Masters, 48 Ph.D.
CHAIR: Alberto Giordano; Ronald Hagelman, Associate Chair
PROGRAM COORDINATORS: Brian Cooper, Undergraduate Program Coordinator; Stella LoPachin, Staff Undergraduate Administrative Assistant; Yongmei Lu, Graduate Program Coordinator; Allison Glass, Staff Graduate Advisor
DEPARTMENT ADMINISTRATIVE ASSTS: Angelika Wahl, Office Manager; Katie Alonzo, Patricia Hell-Jones

FOR CATALOG AND FURTHER INFORMATION: 1) about the Department: Angelika Wahl (AL07@txstate.edu), 2) about Undergraduate programs: Undergraduate Director of Admissions, Undergraduate Admissions Office, Texas State University, San Marcos, Texas 78666; Brian Cooper (BC31@txstate.edu) Undergraduate Program Coordinator; or Stella LoPachin (SL15@txstate.edu), Staff Undergraduate Administrator; 3) about Graduate programs: Yongmei Lu (YL10@txstate.edu), Graduate Program Coordinator, or Allison Glass (AM13@txstate.edu), Staff Graduate Advisor. Telephone (512) 245-2170. Fax (512) 245-8353. Website: www.geo.txstate.edu (for information on academic programs, faculty, facilities, research centers, schedules, student organizations).

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate: General geography majors are available for both B.A. and B.S. degrees. Major concentrations within the B.S. degree program are also available in resource and environmental studies, urban and regional planning, geographic information science, water studies, and physical geography. A teacher certification option is also available. Numerous scholarships and internship opportunities are likewise available.

Certificate Programs: The department offers four certificate programs in GIS, Location Analysis, Environmental Interpretation, and Water Resources Policy, which enable students to gain in-depth knowledge and skills in these critical areas.

Graduate, M.A.G.: The Master of Applied Geography degree provides the geographic training and skills necessary to solve real-world problems. The 33-hour M.A.G. program includes a 9-hour required core and a major in: 1) general geography, 2) resource and environmental studies, 3) geographic information science, or 4) geographic education. Students complete a 3-hour directed research project. Internships are also available.

Graduate, M.S.: The Master of Science in geography program gives highly qualified students exposure to geographic theory and research at the pre-doctoral level. Programmatic emphases include

environmental geography, geographic information science, geographic education, and other specialty areas in geography represented by the current research interests of the faculty. The 30-hour M.S. curriculum includes 9 hours of core courses, 15 hours of additional course work, and a 6-hour master's thesis.

Graduate, Ph.D.: Ph.D. in geography, geographic information science, and geographic education. The Ph.D. is a research-based degree that allows doctoral graduates to fill professional positions in universities, public agencies, and private enterprises. The Ph.D. degree requires a minimum of 31 hours of course work, including 9 hours of core courses beyond the master's degree, plus a minimum of 15 hours of dissertation research and writing.

Research Facilities: The department is actively involved with numerous research programs and has three internal research centers: The Gilbert M. Grosvenor Center for Geographic Education (Director Richard Boehm, RB03@txstate.edu), The National Center for Research in Geography Education (Co-Directors Richard Boehm, RB03@txstate.edu and Michael Solem, MS32@txstate.edu), the Texas Center for Geographic Information Science (Director Nate Currit, NC17@txstate.edu), and the Institute for Government Innovation (Director Rebecca Davio R_D178@txstate.edu). The University is a member of the University Consortium for Geographic Information Science (UCGIS) and the University Corporation for Atmospheric Research (UCAR).

The department has more than 450 PCs linked via servers that support six teaching labs and seven research labs through an extensive library of software applications. For more information about the department's computing infrastructure, visit our Website at www.geo.txstate.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester system. Department tours are available during semesters. The University participates in a variety of federal, state, and local financial aid programs. Application may be obtained through high school counselors or the Office of Financial Aid, Texas State University (Web site: www.txstate.edu).

Graduate, M.A.G.: Semester system. Applicants must submit official transcripts indicating a 3.2 GPA or higher in their last 60 hours of undergraduate course work, two letters of recommendation, and a statement of purpose outlining academic interests. All international students must submit an internet based (iBT) TOEFL score with at least a total minimum score of 78. The TOEFL is required of international applicants who are non-native speakers of English.

All applicants must submit official GRE scores. Applications must arrive at the Graduate College no later than May 1 for fall admission and October 15 for spring admission. Assistantships for Master's degree students are awarded on a competitive basis and currently pay a minimum of $13,097 per nine-month academic year and include a waiver of out-of-state tuition. Students are still responsible for in-state tuition and fees. For full consideration for assistantships, applications should be received by February 1. Occasionally, assistantship funds may still be awarded after this date. Master students can retain assistantships for up to two years from initial entry into the program.

Graduate, MS.: Same as M.A.G., except applicants must have a 3.4 GPA or higher in their last 60 hours of undergraduate course work. For assistantship information, see M.A.G. above.

Graduate, Ph.D.: Semester system. Applicants must have a 3.5 GPA on a 4.0 scale in their master's course work in geography or a closely related field, and submit three letters of recommendation, a statement of purpose, and arrange submission of official GRE scores. All international students must submit an internet based (iBT) TOEFL score with at least a total minimum score of 78. The TOEFL is required of international applicants who are non-native speakers of English. No conditional admissions are accepted.

All application materials must be submitted to the Graduate College by May 1; for international students, by April 15. Ph.D. graduate assistantships are awarded on a competitive basis and currently pay a minimum of $26,000 for nine months and include waiver of out-of-state tuition. Students are still responsible for in-state tuition and fees. For full consideration for assistantships, applications should be received by January 15th. Occasionally, assistantship funds may still be awarded after this date. Ph.D. students can retain Ph.D. assistantships for up to four years from initial entry into the program.

FACULTY:

Thomas Ballinger, Ph.D., Kent State, 2015, Assistant Professor — climatology, climate and environmental change, cryosphere-climate interaction, synoptic meteorology

R. Denise Blanchard, Ph.D., Colorado at Boulder, 1992, Professor — natural and environmental hazards, economic, environmental studies, historical, research methods

Sarah Blue, Ph.D. UCLA, 2004, Associate Professor — Latin America, population, migration, qualitative methods

Richard G. Boehm, Ph.D., Texas at Austin, 1975, Professor and Jesse H. Jones Distinguished Chair of Geographic Education — geographic education, economic

David R. Butler, Ph.D., Kansas, 1982, Texas State University Regents' Professor — geomorphology, natural hazards, mountain environments and environmental change, biogeography

Mark L. Carter, M.A.G., Texas State, 1994, Senior Lecturer — land use analysis, quantitative methods, energy

Edwin Chow, Ph.D., South Carolina, 2005, Associate Professor — GIScience, internet GIS, GIS based-modeling, GIScience programming

Brian Cooper, Ph.D., Texas State, 2012, Senior Lecturer — world regional, U.S. and Canada, economic

Nathan Currit, Ph.D., Pennsylvania State, 2003, Associate Professor — remote sensing and land cover change, GIScience, uncertainty and change in human-environment systems

Rebecca Davio, Ph.D., Texas at Austin, 2001, Assistant Professor of Practice — solid waste management, land management

Rene DeHon, Ph.D., Texas Tech, 1970, Senior Lecturer — geology, mineralogy, petrology, planetary geology

Jennifer Devine, Ph.D., California at Berkeley, 2013, Assistant Professor — political, Latin America, nature and heritage tourism, qualitative methods

Richard W. Dixon, Ph.D., Texas A&M, 1996, Professor — climatology, meteorology, oceanography, hazards, quantitative methods, environmental

Richard A. Earl, Ph.D., Arizona State, 1983, Professor — water resources, environmental change and management, field methods, physical

Lawrence E. Estaville, Ph.D., Oklahoma, 1984, Professor — ethnic, business, geographic education

Alberto Giordano, Ph.D., Syracuse, 1999, Professor and Chair — cartography, historical GIS, Holocaust and genocide, spatial applications of forensic anthropology

Ronald Hagelman, III, Ph.D., Texas State, 2001, Associate Professor and Associate Chair — environmental, hazards and disaster, historical, land management and conservation, urban environment/agriculture

Colleen Hiner, Ph.D., California at Davis, 2012, Assistant Professor — environmental management, cultural ecology, urban-rural fringe, qualitative methods

Donald A. Huebner, Ph.D., Texas at Austin, 2002, Senior Lecturer — Texas, environmental management, field methods, quantitative methods

*Suzon Jammes, Ph.*D., *Strasbourg, France, 2009, Senior Lecturer* — geology, geophysics

Jennifer Jensen, Ph.D., Idaho, 2009, Associate Professor — Lidar, remote sensing, biogeography, land use/land cover change

Injeong Jo, Ph.D., Texas A&M, 2011, Assistant Professor — geographic education, geospatial technologies for education, assessment in geography

Jason Julian, Ph.D., North Carolina, 2007, Associate Professor — water resources, environmental services, fluvial geomorphology

Neil Kucera, J.D., Houston, 1986; M.A.G., Texas State, 2001, Lecturer — environmental law, energy and resource management

Loftus, Tim, Ph.D., Southern Illinois University Carbondale, 2000, Professor of Practice and Meadows Endowed Chair in Water Conservation — water conservation and efficiency, water supply planning and policy, watershed planning

Yongmei Lu, Ph.D., SUNY at Buffalo, 2001, Professor — GIScience, urban and regional studies, crime, health, China and East Asia

Kimberly Meitzen, Ph.D., South Carolina, 2011, Assistant Professor — fluvial processes, geomorphology, river basin management, biogeography

Osvaldo Muniz, Ph.D., Tennessee, 1991, Professor — geographic education, Latin America, online learning methods, global collaboration, international flows

James F. Petersen, Ph.D., Utah, 1981, Professor — physical, geomorphology, geographic education

Andrew Sansom, Ph.D., Texas State, 2013, Professor of Practice — water resources, parks and protected places, conservation leadership

Eric Sarmiento, Ph.D., Rutgers. 2015. Assistant Professor — nature/society analysis, urban, cultural

Alexander Savelyev, Ph.D., Pennsylvania State. 2015. Assistant Professor — geovisualization of textual information, social media, cartography

Michael Solem, Ph.D., Colorado at Boulder, 1999, Research Professor — geographic education

John P. Tiefenbacher, Ph.D., Rutgers, 1992, Professor — hazards, human dimensions of wildlife, environmental problems, Mexico borderlands, States of the Former Soviet Union, air quality

Christi Townsend, Ph.D., Texas State, 2012, Senior Lecturer — physical, research methods, world

John Wagner, M.S., Texas Tech, 2001, Lecturer — geology, structural geology

Rusty Weaver, Ph.D., University at Buffalo, 2012, Assistant Professor — urban change and decline, GIScience, quantitative methods

Yihong Yuan, Ph.D., California at Santa Barbara, 2013, Assistant Professor — GIScience, spatio-temporal data mining, GIScience programing

F. Benjamin Zhan, Ph.D., SUNY at Buffalo, 1994, Professor — GIScience, health and the environment, transportation and network science

ADJUNCT FACULTY:

Russell S. Johnson, J.D., St. Mary's, 1977, Lecturer — water policy and law

Jo Beth Oestreich, Ph.D., Texas at Austin, 2002, Lecturer — geographic education

Shelley Plante, M.A.G., Texas State, 2007, Lecturer — nature and heritage tourism

Jen Sembera, M.Ed., Texas State, 2013, Lecturer — materials management, sustainability

Cathryn Springer, Ph.D., Texas State, 2007, Lecturer — world

EMERITUS FACULTY:

Byron Augustin, D.A., Northern Colorado, 1975, Distinguished Professor — conservation, Latin America, geographic education, Middle East

Frederick A. Day, Ph.D., Ohio State, 1982, Professor — population, economic development, East and Southeast Asia

J. Ronald Eyton, Ph.D., Illinois, 1974, Professor — remote sensing, computer cartography, quantitative methods

James R. Kimmel, Ph.D., Texas at Austin, 1992, Professor — nature and heritage tourism, Southwestern geography, river studies

Robert D. Larsen, Ph.D., Wisconsin at Madison, 1976, Distinguished Emeritus — urban and regional planning, land use planning and environmental policy, solid waste management, transportation

Susan M. Macey, Ph.D., Illinois, 1982, Professor — environmental hazards, aging, medical, GIScience

David Stea, Ph.D., Stanford, 1964, Professor — spatial cognition, environmental perception, sustainable development

Philip W. Suckling, Ph.D., British Columbia, 1977, Professor — climatology, natural hazards

TECHNICAL STAFF:

Daniel D. Hemenway, M.S., Alberta, 1995, Senior Computer Systems Analyst

Charles Robinson, B.B.A., Texas State, 1995, Computer Systems Analyst

TEXAS TECH UNIVERSITY

GEOGRAPHY PROGRAM, DEPARTMENT OF GEOSCIENCES
DATE FOUNDED: 1971
GRADUATE PROGRAM FOUNDED: 2011
DEGREES OFFERED: BA (Geography), MS (Geography), PhD (Geosciences)
GRANTED 8/1/13-8/1/14: 8 Bachelors
STUDENTS IN RESIDENCE: 50 Undergraduate, 12 Masters, 4 PhD
CHAIR: Jeffrey A. Lee
DEPARTMENT ADMINISTRATIVE ASST: Alison Winton, Alisan Sweet

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Jeffrey A. Lee, Department of Geosciences, MS 1053, Texas Tech University, Lubbock, TX 79409-1053.
Telephone (806) 742-3102. Fax (806) 742-0100.
E-mail: jeff.lee@ttu.edu. Web Page: www.geosciences.ttu.edu/

PROGRAMS AND RESEARCH FACILITIES:
The Geography Program offers a Bachelor of Arts degree that requires a minimum of 120 hours. Students majoring in geography must complete 31 hours in geography; two writing-intensive seminars are required. This broad freedom of choice allows students to tailor their program to meet their specific interests. At the graduate level, the Geography Program offers an MS degree and participates in the Geosciences PhD (adaptable to both human and physical geography). A graduate certificate program in GIS requires 15 hours of graduate GIS courses.

The department has three GIS teaching labs (20, 18 and 16 seat), and one physical geography lab. As part of the Department of Geosciences, students have access to meteorology, geology, geochemistry, and geophysics research laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates on a semester system. Undergraduate and graduate applicants must satisfy the general admissions requirements for the University. Detailed information concerning admission requirements and financial aid can be found on the University's web page www.ttu.edu.

FACULTY:

Lucia S. Barbato, M.A., UCLA, 1988, GISP, Instructor, Senior Research Associate, Center for Geospatial Technology — geographic information systems, GIS in water resources, geodatabase design

Guofeng Cao, Ph.D., UCSB, 2011, Assistant Professor, Director, Center for Geospatial Technology — GIS, geostatistics, spatial uncertainty, cyberinfrastructure, GIS in public health and environmental science.

Perry L. Carter, Ph.D., Ohio State, 1998, Associate Professor — cultural, social, economic, geographies of consumption, geographies of race, methodology

Gary S. Elbow, Ph.D., Pittsburgh, 1972, Professor, joint appointment Honors College — cultural, settlements and land utilization, development planning, Latin America, geography education

Linda L. Jones, M.A., UCLA, 1986, Instructor and Lab Director — physical geography, human geography, geography & technology, geography education

Jeffrey A. Lee, Ph.D., Arizona State, 1990, Professor — physical geography, geomorphology, aeolian processes, field methods, science education

Kevin R. Mulligan, Ph.D., Texas A&M, 1997, Associate Professor — GIS, remote sensing, physical geography, arid environments, aeolian processes.

M. Duane Nellis, Ph.D., Oregon State University, University Honors College Professor — natural resources, physical geography, remote sensing, GIS, geography in higher education

Jennifer Vanos, Ph.D., Guelph, 2011, Assistant Professor — human biometeorology, urban climate, applied synoptic climatology, climate change and health, urban air pollution

Zhe Zhu, Ph.D., Boston University, Assistant Professor — remote sensing, land use/land cover change, time series analysis, carbon cycle, modeling, climate change

UNIVERSITY OF NORTH TEXAS

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT
DATE FOUNDED: 1901
GRADUATE PROGRAM FOUNDED: 1995
DEGREES OFFERED: B.A., B.S. in Geography; M.S. in Geography; Ph.D. in Environmental Science
GRANTED 9/1/14-8/31/15: 35 Bachelor's, 12 Master's (Geography)
STUDENTS IN RESIDENCE: 118 Bachelor's, 33 Master's (Geography)
CHAIR: Paul F. Hudak
DEPARTMENT ADMINISTRATIVE ASSISTANT: Tami Deaton

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and the Environment, University of North Texas, 1155 Union Circle #305279, Denton, Texas 76203-5017. Telephone: (940) 565-2091. Fax: (940) 369-7550.
E-mail: geog@unt.edu. Internet: www.geography.unt.edu.

PROGRAMS AND RESEARCH FACILITIES:
UNDERGRADUATE: Our bachelor's program emphasizes the acquisition of basic research skills, geographic concepts, and techniques, and their applications, preparing students for employment in diverse areas of high demand in the job market or advanced study. Students select courses from physical and human geography, as well as geospatial technology, customizing degree plans to areas of interest. For example, recent students have emphasized: environmental management; water, food, and energy resources; geospatial technologies and GIS; urban and economic geography; globalization and development; medical geography and public health; ecosystems geography; geomorphology and geology; and environmental archaeology. Both undergraduate and graduate students also have access to internships; the department has collaborated with more than 50 government agencies and companies in the Dallas-Fort Worth metropolitan area.

GRADUATE: Our graduate curriculum emphasizes research and communications skills, preparing students to meet the challenges of an increasingly globalized and connected world through engagement with theory and practice. In consultation with their advisor, students create degree plans involving coursework and independent research. Degree plans reflect student interests and faculty expertise in four core concept areas — earth science and modeling, human systems and the environment, environmental archaeology, and globalization and development — as well as geospatial technology. For example, recent students have studied: health geography and emergency response; environmental archaeology; GIS and remote sensing; coastal processes and geomorphology; ecosystems and water resources; urban and economic geography; coastal geomorphology; and resource and energy governance.

CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEMS (GIS): The department offers a six-course certificate providing the conceptual understanding and technical proficiency necessary to apply GIS in various settings.

RESEARCH, FACILITIES, AND EQUIPMENT: Funded by many agencies, faculty research is often interdisciplinary, involving fieldwork in the U.S. and numerous other countries. Presently, the department is very active in Latin America, China, South and Southeast Asia, the United States and Canada, West Africa, and Transcaucasia. The department is located in a well-equipped, modern building with an open atmosphere conducive to faculty, staff, and student interaction. Extensive, well-equipped classrooms and laboratories support teaching and research in various aspects of geography and archaeology. We have ample office space for graduate students, as well as informal gathering areas and formal meeting rooms.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
The department conducts a holistic review of applicants for evidence of potential success in the graduate program (www.geography.unt.edu). Master's teaching and research assistantships carry competitive monthly stipends, benefits, and an out-of-state tuition waiver. In-state tuition awards for teaching and research assistants are also available on a competitive basis. Applications submitted by January 31 are assured consideration for all available funding opportunities.

FACULTY:

Waquar Ahmed, Ph.D., Clark University, 2007, Assistant Professor — socio-economic impacts and manifestations of capitalism; global governance institutions; corporate power and foreign direct investments; energy resources and infrastructure

Ipsita Chatterjee, Ph.D., Clark University, 2007, Assistant Professor — economic, cultural, and geopolitical impacts of globalization; urban process under capitalism in relation to class, race, and gender

Pinliang Dong, Ph.D., University of New Brunswick, 2003, Associate Professor — geographic information science; *remote sensing*

C. Reid Ferring, Ph.D., University of Texas, Dallas, 1993; Ph.D., Southern Methodist University, 1980, Professor — geoarchaeology; soils geomorphology; fluvial processes; paleoenvironments

Matthew Fry, Ph.D., University of Texas, Austin, 2008, Assistant Professor — human-environment geography; Latin America; rural-urban relationships; cultural and political ecology

Paul F. Hudak, Ph.D., University of California, Santa Barbara, 1991, Professor and Chair — environmental monitoring and remediation; geologic hazards; wetlands; water resources

Kent McGregor, Ph.D., University of Kansas, 1982, Associate Professor — meteorology; climatology; water resources; remote sensing

Lisa Nagaoka, Ph.D., University of Washington, 1999, Associate Professor — zooarchaeology; evolutionary ecology; conservation; biogeography

Joseph R. Oppong, Ph.D., University of Alberta, Edmonton, 1992, Professor — cultural geography; medical geography; location-allocation models; quantitative methods

Feifei Pan, Ph.D., Georgia Institute of Technology, 2002, Associate Professor — hydrology; water resources; modeling

Alexandra G. Ponette-Gonzalez, Ph.D., Yale University, 2009, Assistant Professor — global environmental change; terrestrial ecosystems; biogeochemistry; environmental services

Murray D. Rice, Ph.D., University of Saskatchewan, 1995, Associate Professor — applied economic geography; retail geography; urban and regional economic development

Chetan Tiwari, Ph.D., University of Iowa, 2008, Associate Professor — medical geography; GIS programming; computational geography

Harry F.L. Williams, Ph.D., Simon Fraser University, 1989, Professor — geomorphology; paleotempestology; hurricane impacts

Steven J. Wolverton, Ph.D., University of North Texas, 2007; Ph.D., University of Missouri, 2000, Associate Professor — paleozoology; conservation ecology; zooarchaeology; environmental archaeology

ADJUNCT FACULTY:

Johnny Byers, M.S., University of North Texas, 2008 — earth science; environmental archaeology

Bruce Hunter, Ph.D., University of North Texas, 2005 — geographic information systems; fire ecology

THE UNIVERSITY OF TEXAS, AUSTIN

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT
DATE FOUNDED: 1949
GRADUATE PROGRAM FOUNDED: 1950
DEGREES OFFERED: B.A., M.A., Ph.D.
GRANTED: 09/01/14-08/31/15: 88 Bachelors, 1 Masters, 3 Ph.D.
STUDENTS: 345 Majors, 8 Masters, 20 Ph.D.
CHAIR: Sheryl Luzzadder-Beach
DEPARTMENT GRADUATE COORDINATOR: James Gunter

FOR FURTHER INFORMATION WRITE TO: Department of Geography and the Environment, The University of Texas at Austin, Austin, Texas 78712-1098 Telephone (512) 232-1595
Fax (512) 471-5049 E-mail: teal@austin.utexas.edu
Internet: http://www.utexas.edu/cola/depts/geography/

PROGRAMS AND RESEARCH FACILITIES:
The Department offers the B.A. in Geography with several areas of concentration, including Environmental Resource Management, Cultural Geography, GISc, Landscape Ecology and Biogeography, Earth Science, and Urban Geography. It also offers a B.A. in Urban Studies, a B.S. in Environmental Science, the M.A. and Ph.D. in Geography, and a joint Ph.D. in Geography and M.S. in Community and Regional Planning.

Graduate students work closely with their supervising professors to develop individualized, original research projects. Faculty and graduate students have contributed in many ways to understanding and managing earth's diverse cultural and physical environments, ranging from local to global scales across the full range of human history. Current areas of faculty research include Space, Place, and Social Worlds; Environmental Changes and Surface Processes; and Digital Landscapes. The faculty has always had a strong international orientation and is especially well prepared to guide students in research in Latin America, South Asia, Africa, the Middle East, and Europe, as well as field research in the Southwestern and Western regions of the United States. Field work and archival investigation are important parts of student research, and many pursue training in languages and field methods. Computer and laboratory techniques serve the needs of both scientific and humanistic research and teaching; such tools include Geographic Information Science and the laboratory analysis of soils, sediments, and archaeological materials.

The professional development of students involves education in the discipline's heritage and philosophy as well as current issues and theories. Interdisciplinary expertise is developed through course work and involvement in campus-wide as well as Departmental symposia and colloquia. Students are encouraged to attend and present papers at regional and national professional meetings, and to develop skills in leadership, service, and teaching. Most Ph.D. recipients pursue careers in higher education; others obtain advanced professional positions in government agencies, non-governmental organizations, and the private sector. Most Master's recipients are encouraged to pursue the Ph.D.; the rest are employed in a variety of governmental, non-governmental organization, and private sector positions, or in secondary education.

Research facilities: The University library of over eight million volumes is one of the largest in the United States, and is noted for its collections and rare materials on Latin America and the American West and South. The Ransom Center is one of the world's premier cultural archives, and houses thirty million literary manuscripts, five million photographs (including the world's first photograph), and numerous rare maps and atlases. Courses, symposia, and research support are available through nationally prominent area studies centers for Latin America, the Middle East, Russia, East Europe, and Eurasia, and South Asia. Further resources are available through the Population Research Center, the Environmental Science Institute, the Center for Space Research, and the Bureau of Economic Geology.

The Department houses the University's Center for Geographic Information Science and deploys ESRI, ERDAS, and IDRISI software packages. Facilities for GISc include an Environmental Information Systems Laboratory, a Digital Landscape Laboratory for research, an Environmental Change Laboratory, and a Spatial Sciences Laboratory.

The Department has a new Soils and Geoarchaeology Research Laboratory for the study of soils, sediments, and pollen samples, and a new Water Quality and Hydrology Research Laboratory, complementing existing Fluvial Geomorphology Research Laboratories. The Department also has a research partnership with the Hornsby Bend Center for Environmental Research, located in an urban floodplain wetland.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate: The University has two regular semesters, and two summer sessions. Students in geography take courses assuring breadth of knowledge in physical geography, human geography, and geographic methods. Students also specialize in an area of concentration. Numerous honors programs such as Liberal Arts Honors, Junior Fellows, Gamma Theta Upsilon, and Phi Beta Kappa are available to geography majors. The University encourages international study.

Graduate: All entering students participate in a common two semester seminar sequence, which provide an introduction to the department, disciplinary research, and international research. A

master's student takes at least two organized courses from different faculty during the first year of study, and demonstrates mastery of a foreign language or method prior to receiving the degree. Master's theses usually involve fieldwork, often in foreign countries. A report option is also available for special situations.

A doctoral student crafts a personal program of work with help from a faculty supervisor and dissertation committee, selected by the end of the second semester. Doctoral students take at least three organized courses from different departmental faculty. Mastery of an appropriate method and foreign language, proficiency in two areas of specialization in geography, and passing qualifying examinations admits the student to candidacy. Research and writing of the dissertation culminates in an oral defense.

Graduate Admission Requirements: Students in all disciplines and backgrounds, whose goals are related to faculty interests, are encouraged to apply; a background in geography is not required. Admission is very selective, and is based on careful analysis of the entire application dossier. Personal essay, letters of recommendation, and suitability of previous training and experience for the proposed topic of graduate study are very important. GRE scores and grade point averages are examined, but no single factor guarantees or precludes admission. A personal visit and interview with prospective supervisor is recommended but not required; all applicants should contact relevant faculty members to discuss their goals before applying. All application materials must be submitted by 1 January.

Graduate Financial Aid: The department offers multiple Teaching and Research Assistantships and Fellowships each academic year. Most fellowships and assistantships include rebates to help pay for tuition, and some include extra stipends for travel. The Department also offers several summer teaching assistantships, and several research assistantships. The Department and Graduate School offer travel grants for research and attendance at professional meetings. Many students receive funding through University institutes or area studies programs, and from external sources.

FACULTY:

Paul C. Adams, Ph.D., Wisconsin, 1993, Associate Professor — Place Images in the Media; Technologically-Mediated Gathering; Topologies of Communication; Geopolitical Discourses; Formation of Subjectivity

Eugenio Arima, Ph.D., Michigan State University, 2005, Assistant Professor — Human-Environment Relations; GIS/Science; Applied Quantitative methods; Latin America

Timothy P. Beach, Ph.D., University of Minnesota-Minneapolis, 1989, Professor and C. B. Smith, Sr. Centennial Chair in United States-Mexico Relations — Soil and Agricultural Systems; Geomorphology; Water; Environmental Change; Paleoclimates, and Geoarchaeology.

Karl W. Butzer, D.Sc., Bonn, 1957, Raymond C. Dickson Centennial Professor of Liberal Arts — Cultural Ecology; Applied Geomorphology; Environmental History; Colonial Mexico; Spain; Near East; Australia

Kelley A. Crews, Ph.D., North Carolina, 2000, Associate Professor — Land Use Ecology and Management; GIS & Remote Sensing; Environmental Policy Analysis; Population-Environment Interactions; Global Tropics

William E. Doolittle, Ph.D., Oklahoma, 1979, Erich W. Zimmermann Regents Professor — Landscapes; Indigenous Agriculture; Arid Lands; American Southwest, Mexico

Caroline Faria, Ph.D., University of Washington 2009, Assistant Professor — Feminist Geography; Political Geography; Critical Geographies of Gender, Sexuality and Race; Transnational Feminist Theory; Critical Development Geographies; Postcolonial Geography; Cultural Geography; African Studies.

Gregory W. Knapp, Ph.D., Wisconsin, 1984, Associate Professor — Cultural and Political Ecology; Historical Geography; Latin America

Edgardo Latrubesse, Ph.D., National University of San Luis, Argentina, 1992, Professor — Fluvial Geomorphology; Latin America; Mega-Geomorphology; Paleogeography; River Management

Sheryl Luzzadder-Beach, Ph.D., University of Minnesota-Minneapolis, 1990, Professor, Chair of the Department of Geography and the Environment, and Fellow of the C. B. Smith, Sr. Centennial Chair in United States-Mexico Relations — Water Resources; Geoarchaeology; Spatial Analysis; Geomorphology; Paleoenvironments; Gender; Science and Human Rights.

Jennifer A. Miller, Ph.D., San Diego State-UC Santa Barbara joint program, 2003, Associate Professor — GIScience; Integration of GIS and Remote Sensing; Environmental/Ecological Modeling

Francisco L. Pérez, Ph.D., UC-Berkeley, 1985, Professor — Mountain Geoecology; Geomorphology; Vegetation Ecology; Soils

Carlos E. Ramos Scharrón, Ph.D., Colorado State University, 2004, Assistant Professor — Hydro-Geomorphology; Terrestrial Carbon and Sediment Budgets; Watershed Analyses; Land Use Change

Rebecca Torres, Ph.D., UC-Davis, 2000, Associate Professor — Rural and Community Development; Transnationalism and Migration; Latino Communities in the U.S., Mexico and Latin America

Kenneth R. Young, Ph.D., Colorado, 1990, Professor — Biogeography; Landscape Ecology; Climate Change; Sustainability; Tropical Environments

Leo E. Zonn, Ph.D., Wisconsin-Milwaukee, 1975, Professor — Representation and Media, Especially Cinema; Geographies of Popular Culture

RELATED FACULTY AND RESEARCHERS ON CAMPUS:

Erick Akins, M.A., Trinity, 1988, Lecturer — Non-Profit Management; Grant Research, Development and Writing; Grant Management; Policy Development and Community Development

Samia Aquino da Silva, Ph.D., Universidade Estadual de Maringá, Brasil, Lecturer

Elisabeth K. Butzer, M.A., Chicago, 1977, Research Fellow (Geography and Latin American Studies) — Northern New Spain; Land Use; Climatic Extremes; Epidemics

David J. Eaton, Ph.D., Johns Hopkins, 1977, Bess Harris Jones Centennial Professor of Natural Resource Policy Studies (Public Affairs, Middle Eastern Studies, and Geography) — Regional and International Environmental Resource Management; Quantitative Methods

Jules R. Elkins, Ph.D., University of California at Berkeley, 2008, Lecturer — International Development; Health; Environmental Health; Environmental Economics

Charles D. Frederick, Ph.D., Texas, 1995, Research Fellow — Geoarchaeology

David W. Guillet, Ph.D., Texas, 1974, Research Fellow — Cultural Ecology; Irrigation; Historical Ecology; Spain; Andes; Himalayas; Natural Resource Management; Political Ecology

Rich Heyman, Ph.D., Washington, 2004, Lecturer — Cultural Geography; Urban Geography; Critical Theory and Marxism; History of Geography; Pedagogy; Public Space

Steven D. Hoelscher, Ph.D., Wisconsin, 1995, Associate Professor (American Studies and Geography) Affiliated Faculty — Historical Geography; Tourism; Ethnicity; Historic Landscapes; North America

Donald J. Huebner, Ph.D., Texas, Austin, 2002, Lecturer — American Southwest; Desert and Mountain Environments; Coastal Environments; Surveying; GIS

Bella Bychkova Jordan, Ph.D., Texas, Austin, 2002, Lecturer — Cultural Geography and Ethnogenesis; Religion; Russia; Circumpolar North

Troy M. Kimmel Jr., B.S., Texas A&M University, 1983, Senior Lecturer — Broadcast Meteorology; Severe/Inclement Weather Forecasting; Aviation Meteorology

Blanca León, Ph.D. Aarhus U., Denmark, 1993, Research Fellow — Plant geography; Botany; Conservation

Thoralf Meyer, MSc, Anhalt University of Applied Sciences, Germany, 1999, Ph.D. University of Virginia, 2014, Lecturer — Land Use Ecology and Land Management; Environmental Science; GIScience; African Savanna Ecosystems

Mark Simmons, Ph.D., Texas A&M University, 2003, Lecturer, Restoration Ecologist at the Lady Bird Johnson Wildflower Center — Landscape Ecology

Bjorn Sletto, Ph.D., Cornell University, Assistant Professor at The University of Texas at Austin School of Architecture, Affiliated Faculty — Geographic Information Systems; Latin American Planning and Development; Participatory Planning; Environmental and Social Justice, Social Theory

Frederick Steiner, PhD Pennsylvania, 1986, Professor (Architecture and Geography) and Dean, School of Architecture, Affiliated Faculty — Environmental Impact Assessment; Landscape Analysis and Landscape Architecture Theory

Peter M. Ward, Ph.D., Liverpool, 1976, Professor (Public Affairs, Sociology, and Geography) Affiliated Faculty — Mexican Politics and Urban Administration; Housing and Land Development in Third World Countries; Local Leadership

EMERITI:

Alfred W. Crosby, Jr., Ph.D., Boston, 1961 Professor Emeritus of Geography, History, and American Studies

Robin W. Doughty, Ph.D., UC-Berkeley, 1971, Professor Emeritus of Geography

Robert K. Holz, Ph.D., Michigan State, 1963, Erich W. Zimmermann Regents Professor Emeritus of Geography

Ian R. Manners, D.Phil., Oxford, 1969, Professor Emeritus of Geography (Middle Eastern Studies and Center for Middle Eastern Studies)

THE UNIVERSITY OF TEXAS, SAN ANTONIO

DEPARTMENT OF POLITICAL SCIENCE AND GEOGRAPHY
DATE FOUNDED: 1977
DEGREES OFFERED: B.A., M.A. in Geography
GRANTED: 9/1/15 - 5/31/16: 15 B.A., 0 M.A. (program implemented fall 2014)
STUDENTS: 50 majors; 15 minors; 10 Masters
CHAIR: Daniel Engster
GEOGRAPHY PROGRAM COORDINATOR: Richard Jones
GRADUATE PROGRAM COORDINATORS: Andrea Aleman, Richard Jones, John Morris
DEPARTMENT ADMINISTRATOR: Martha Luna

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Political Science and Geography, The University of Texas at San Antonio, One UTSA Circle, San Antonio, Texas 78249. Telephone (210) 458-5600. Fax (210) 458-4629.
Email: richard.jones@utsa.edu. Website: http://colfa.utsa.edu/polisci/geography. For graduate program, contact andrea.aleman@utsa.edu (210-458-4627).

PROGRAMS AND RESEARCH FACILITIES: The geography program is housed with Political Science in the College of Liberal and Fine Arts, and offers a Bachelor of Arts degree requiring 37 hours of courses in the major. The program specializes in cultural, urban, GIS, economic, political, and physical geography, and offers coursework in most other subareas of the field. The program is highly interdisciplinary. Students are encouraged to take courses in related areas of human and environmental sciences, and faculty regularly interact with those in other disciplines and with several Institutes on campus. The department has a GIS lab in addition to a College-level Critical GIS research laboratory with teaching capabilities, both directed by geography faculty. The program provides students and faculty numerous opportunities for study, internships, field trips, and research in the San Antonio region, south Texas, and abroad.

ACADEMIC PLAN, ADMISSIONS REQUIREMENTS, & FINANCIAL AID: The University operates on a semester system, with a full range of summer courses. Complete information on admissions, program, and financial aid, may be obtained through the University website: www.utsa.edu.

Graduate Admissions requirements: For complete program information see the UTSA Graduate School Website: Academic Programs > Geography (M.A.). For application information see https://apply.embark.com/grad/utsa/. Requirements for admission to the GRG Masters program include submission of official transcripts, a statement of purpose, and two letters of recommendation by July 1 for fall or September 1 for spring. A CV and the GRE are recommended but not required. Prerequisites include a 3.0 GPA in the last 60 hours of college work and completion of an introductory GIS course and a Methods course. A limited number of competitive Teaching Assistantships are available, for which early application is encouraged.

FACULTY:

Nazgol Bagheri, Ph.D., U. of Missouri-Kansas City, 2013, Assistant Professor — Urban Geography, Feminist Geography, GIScience, Middle East

Miguel De Oliver, Ph.D., Penn State, 1992, Associate Professor — race and gender disparities, consumerism and social inequality, North America

Richard Jones, Ph.D., Ohio State, 1973, Professor — international migration, development, Texas/Mexico social geography

John Morris, Ph.D., U .of Texas-Austin, 1992, Professor — historical and cultural geography, American Southwest, Europe

James Vaughan, Ph.D., Texas State U., 2006, Lecturer — urban planning, resources, physical geography, sustainable urbanism

ADJUNCT FACULTY:

Juan Antonio Cebrian, Ph.D., Complutense University of Madrid, Spain, 1983 (summer) — Europe

Robert Garza, Ph.D., U. of Colorado-Boulder, 1980 — physical geography, American Southwest

Dean Lambert, Ph.D., U. of Texas-Austin, 1992 — physical geography, Latin America

Matt Melancon, ABD, Texas State U., 2006 — physical geography, conservation, biogeography

Raluca Owens, ABT, U. of Texas at San Antonio — introduction to geography

UTAH

UNIVERSITY OF UTAH

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1947
GRADUATE PROGRAM FOUNDED: 1948
DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D. (Geography); Geographic Information Science M.S.
GRANTED 9/14-8/15: 37 Bachelors, 11 Masters, 6 Ph.D., 6 GIS.MS.
STUDENTS IN RESIDENCE: 79 Bachelors, 32 Masters, 13 Doctoral
NOT IN RESIDENCE: 1 Masters, 1 Doctoral
CHAIR: Andrea Brunelle
DEPARTMENT ADMINISTRATIVE OFFICER: Lisa Clayton
GRADUATE SECRETARY: Pam Mitchell

FOR CATALOG AND FURTHER INFORMATION WRITE TO: University of Utah, Department of Geography, 332 South 1400 East, Room 217, Salt Lake City, Utah, 84112. Telephone (801) 581-8218. Fax (801) 581-8219. Email: pam.mitchell@geog.utah.edu.
World Wide Web: http://www.geog.utah.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography emphasizes scientific geography within three main focus areas, as well as their synergistic overlaps: 1) *Urban/Economic Systems*, including urbanization, transportation, economic geography, globalization, public health, natural and technological hazards, and demography, 2) *Earth Systems Science*, including biogeography and ecosystems, glaciology, hydrology, paleoecology, geomorphology, and climate science; and 3) *Geographic Information Science*, including geographic information systems (GIS), remote sensing, cartography and geovisualization, spatial analysis, and geocomputation. These focus areas provide knowledge and technical skills required to support high-end careers in the private, public, and academic sectors. Any of the focus areas or their interfaces can serve as a focus for the Ph.D., M.S., B.A., or B.S. degrees in geography.

In addition to traditional academic Master's and Doctoral degrees in Geography, we also have a Master's of Science in Geographic Information Science (MSGIS). The MSGIS focuses on coursework and is targeted towards professionals seeking GIS-centered training. The MSGIS can be completed independently, or with the Geography BS in a five-year combined program. The Department of Geography also provides multiple certificate programs. The Geographic Information Science Certificate offers emphases in *Applied GIS* and *Remote Sensing*. The Geospatial Intelligence (GeoInt) Certificate is one of only seven programs nationwide accredited by the US Geospatial Intelligence Foundation. We also offer certificates in Climate Change, Hazards and Emergency Management, and participate in an Integrated Certificate in Sustainability.

The Department has well-equipped facilities for research in GIScience, digital cartography, remote sensing and environmental analysis. The Department houses and operates the Digitally Integrated Geographic Information Technologies Laboratory (DIGIT), a major GIScience research and production facility serving interests on and off campus. DIGIT is equipped with state-of-the-art hardware platforms and software systems for analytical computer cartography, web-based mapping, remote sensing and GIScience, including a full range of ESRI products (including full suites of Arc GIS Desktop, ArcGIS Server, ArcGIS Online, ArcPad/ArcGIS Mobile), ENVI, GlobalMapper, SQL Server and other image processing, spatial analysis, spatial database and graphics software. We are also home to the Utah Remote Sensing Applications (URSA) Lab. URSA engages in cutting-edge, applied remote sensing research using hyperspectral, lidar, and multispectral time series remote sensing data and has a wide array of remote sensing field equipment and software. The Center for Natural and Technological Hazards (CNTH) which integrates research and teaching in urban economic systems, earth system science and GIScience as applied to hazards analysis, policy and mitigation. The Utah Geo-Health (UGH) Lab focuses on research and teaching on medical/health geography, public health, and environmental health. The Geospatial Intelligence Research Lab (GIRL) works in all aspects of geospatial intelligence and human security which includes theoretical constructs, quantitative and qualitative approaches, regional analyses, and geographic information technologies, remote sensing, and data mining. The Urban and Sustainability Research Lab has a broad range of coverage, including urbanization, development, inequality, health, land use, and sustainability with extensive use of GIS spatial analysis. The RED Lab (Records of Environment and Disturbance) and Power Paleoecology Lab are two paleoecology labs housing state-of-the-art facilities for studying environmental change from sedimentary records. The Nicoll Lab for Quaternary Sedimentology and Geomorphology integrates applied geological techniques, including field-intensive strategic, archaeological and geophysical research using sedimentological techniques, ground penetrating radar and terrestrial LiDAR acquisition and interpretation. The Snow and Ice Lab focuses on studying the climate change aspects of mountain glaciers, ice sheets, and seasonal snow using remote sensing data acquired from satellites, airborne and ground-based systems. The Paeleo-Data Lab works with regional and continental scale databases of pollen and peatland sequences to reconstruct information about past climates and ecosystems over the Northern hemisphere to estimate future global change. We also have strong ties to University of Utah interdisciplinary field, educational, and computing facilities, including Range Creek Canyon, Rio Mesa Center, Natural History Museum of Utah Garrett Herbarium, Global Change and Sustainability Center, and Center for High Performance Computing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: All prospective University of Utah undergraduate students must apply through the Admissions Office. Applicants must submit a completed *Application for Undergraduate Admission*, required test scores (ACT/SAT); processing fee; and any required credentials by the appropriate deadline to avoid being assessed a late fee. Following are deadlines for filing applications: Fall Semester – April 1; Spring Semester – Nov. 1; Summer Semester – March 15. The following types of financial aid are available through the Financial Aid and Scholarship Office: scholarships, grants, loans and work-study. Financial aid and scholarship deadlines are prior to the start of the academic year. Dates can be found on the University web page at http://financialaid.utah.edu/news/ . Offers made to students may be a combination of various forms of aid. Scholarships and grants are restricted to undergraduate students; loans and work-study are open to both graduate and undergraduate students.

GRADUATE: Candidates must apply online via an ApplyYourself link on our website and must be accepted by both the Department and the University's Graduate School. A minimum of a 3.00 G.P.A. is required for acceptance. Applicants must submit a completed application for admission, processing fee, and any required credentials by the appropriate deadline. Several teaching assistantships are available; which include stipends of up to $16,000 per academic year and carry a full tuition waiver. Research assistantships and part-time project work are also available through funded research grants. Complete applications for graduate school as well as teaching assistantships and research assistantships for the Master's program are due in the Geography Department no later than January 10. Ph.D. applications are accepted at any time for fall and spring semesters, but for Ph.D. applicants wishing to apply for teaching and research

assistantships, applications are due January 10. Information and details are available at http://www.geog.utah.edu/graduate-program.html.

FACULTY:

Simon C. Brewer, Ph.D., Universite' d'Aix-Marseille I, 2002, Assistant Professor — past and present climate change, paleoecology, environmental modeling, data mining and analysis

Andrea Brunelle, Ph.D., University of Oregon, 2002, Professor and Chair — paleoecology, disturbance (fire and beetle) history, climate change

Thomas J. Cova, Ph.D., University of California-Santa Barbara, 1999, Professor — environmental hazards, human-environmental systems, emergency management, transportation, and geographic informationscience

Philip E. Dennison, Ph.D., California-Santa Barbara, 2003, Professor and Director of Graduate Studies — remote sensing of vegetation, hyperspectral, multispectral, and lidar remote sensing, wildfire and climate, fire modeling and fire safety

Richard R. Forster, Ph.D., Cornell, 1997, Professor — glaciology, microwave remote sensing, application of radar interferometry to studies of glaciers and ground subsidence, remote sensing of snow packs and hydrology

George F. Hepner, Ph.D., Arizona State, 1979, Professor and Director of Undergraduate Studies — land resource analysis, geographic information analysis, geospatial analysis of terrorism

Andrew M. Linke, Ph.D., University of Colorado-Boulder, 2013, Research Assistant Professor — political geography, political violence, Kenya, spatial statistics, GIS, climate change and conflict

Phoebe B. McNeally, Ph.D., University of Utah, 2008, Research Associate Professor and Director of Digitally Integrated Geographic Information Technologies (DIGIT) Laboratory — GIS, spatial decision support systems, geographic visualization, spatial databases, and snow science

Richard Medina, Ph.D., University of Utah, 2009, Assistant Professor — conflict, hazards, complex systems, GIS

Kathleen Nicoll, Ph.D., Arizona, 1998, Associate Professor — Quaternary stratigraphy, geomorphology, archaeology, environmental change, petroleum geology

Mitchell J. Power, Ph.D., 2006, University of Oregon, Associate Professor — paleoecology, biogeography, historical plant geography, climate history, and fire history from local to global scales

Summer Rupper, Ph.D., University of Washington-Seattle, 2007, Associate Professor — glaciology, climate change, modeling glacier mass balance, ice core analysis, glacier geomorphology

Vincent V. Salomonson, Ph.D., 1968, Colorado State University, Research Professor — spaceborne remote sensing of Earth-atmosphere processes and trends with emphasis on hydrological processes, regional and global snow cover dynamics

Neng Wan, Ph.D, Texas State University-San Marcos, 2011, Assistant Professor — medical/health geography, aging, health disparity, healthcare accessibility, environmental exposure, GIScience, spatial modeling

Ran Wei, Ph.D., Arizona State University, 2013, Assistant Professor — GIScience, urban and environmental planning, spatial analysis, spatial optimization, high-performance computing, infrastructure and transportation system, land use decision making

Yehua Dennis Wei, Ph.D., UCLA, 1998, Professor — economic/urban geography, regional and sustainable development, globalization and global cities, land use, GIS, spatial analysis, China

AUXILIARY FACULTY:

Robert T. Argenbright, Ph.D., UC-Berkeley, 1990, Associate Professor-Lecturer — Russia, historical, political, and urban geography

Jordan A. Clayton, Ph.D., University of Colorado, 2005, Adjunct Assistant Professor — field methods, hydrology, geomorphology

Larry L. Coats, M.S., Adjunct Assistant Professor — quaternary sciences

Elizabeth Dudley-Murphy, Ph.D., Adjunct Associate Professor — world regional/cultural geography, geography of Latin America, human geography, introduction to GIS

Timothy Edgar, M.S., Utah, Assistant Professor (Lecturer) — Energy/natural resources, sustainability, spatial statistics, remote sensing, GIS and geocomputation

Steven Farber, Ph.D., McMaster University, 2010, Research Assistant Professor — spatial analysis, urban transportation geography, spatial econometric modeling, urban economic geography, integrated land-use and transportation modeling, activity and time-use analysis, GIS

Jack Hamilton, Ph.D., Columbus University, 1991, Adjunct Associate Professor — energy, environment and sustainability

Zachary Lundeen, Ph.D., Utah, Research Assistant Professor and Director of Rio Mesa Center — paleoclimatology, paleoecology, water resources

Ola Opera, Ph.D., Utah, 2013, Adjunct Assistant Professor — energy, environment

Pamela Perlich, Ph.D., Adjunct Professor — demo-economic analysis and regional science

Kenneth L. Petersen, Ph.D., Washington State University, 1981, Adjunct Assistant Professor — palynology and environmental archaeology

Jennifer Watt, Ph.D., Utah, 2013, Adjunct Assistant Professor — global climate change, environmental and sustainability studies, paleoecology and disturbance

Ingrid Weinbauer, M.A., Adjunct Assistant Professor — cartography, resource conservation, urban environmental geography

Bing Xu, Ph.D., UC-Berkeley, 2003, Research Assistant Professor — remote sensing and GIS, epidemiology, spatial analysis, spatio-temporal modeling

EMERITUS FACULTY:

Genevieve Atwood, Ph.D., Utah, 2006, Adjunct Associate Professor
Donald R. Currey, Ph.D., Kansas, 1969, Professor - Deceased
Albert L. Fisher, Ph.D., Johns Hopkins, 1954, Professor
James W. King, Ph.D., Northwestern, 1964 Associate Professor
Thomas M. Kontuly, Ph.D., Pennsylvania, 1978, Professor
Chung-Myun Lee, Ph.D., Michigan, 1961, Professor
Roger M. McCoy, Ph.D., Kansas, 1967, Professor
Merrill K. Ridd, Ph.D., Northwestern, 1963, Professor
Leroy H. Wullstein, Ph.D., Oregon State, 1965, Professor

UTAH STATE UNIVERSITY

DEPARTMENT OF ENVIRONMENT AND SOCIETY
DEGREES OFFERED: B.S. Geography (offered jointly with Department of Watershed Sciences), M.S. Geography
HEAD: Christopher Lant

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Becky Hirst, Department of Environment and Society, 5215 Old Main Hill, Logan UT 84322-5215.
Telephone: (435) 797-1790. Fax: (435) 797-4048.
E-Mail: envs.info@usu.edu. Website: http://www.qcnr.usu.edu/envs/.

PROGRAMS AND RESEARCH FACILITIES: The interdepartmental program in Geography is part of the College of Natural Resources. Research centers on relationships between humans and the natural environment, and physical processes in watersheds, including applications of spatial-analytical tools. Undergraduate students in Geography choose from three emphasis areas (described below): Human-Environment Geography, Geographical Analysis, and Physical Geography.

Human-Environment Geography provides a broad overview of the relationships between humans and their environments across different cultures, economies, and geographic locations around the globe. Special attention is given to human-environment relations and environmental issues in the Global South, within the context of world systems.

Geographical Analysis assists students in gaining a solid foundation of geographic information analysis skills. Students learn to apply planning tools and approaches to large-scale issues extending beyond city, county, or other jurisdictional boundaries.

Physical Geography focuses on physical processes on a landscape scale. Students gain proficiency in geographic information sciences and are exposed to processes of landscape geomorphology and hydrology. Students completing this emphasis will have strong quantitative and spatial analysis skills, and will gain an understanding of the interactions of the physics, chemistry, and biology inherent in earth ecosystems.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Graduate admission requirements: interests in the field coincident with those of the Department, min. 3.2 GPA over last 60 credits, and 40th percentile for GRE scores; application requires transcripts, three letters of recommendation, GRE results, TOEFL (international students); Financial Aid: graduate research and teaching assistantships may be available, with remission of out-of-state portion of tuition if at 0.5 FTE.

ENVIRONMENT AND SOCIETY FACULTY:

Jacopo Baggio, PhD, Univ. of East Anglia, 2011, Assistant Professor — networks, social-ecological system modeling and analysis – jacopo.baggio@usu.edu

Shannon Belmont, MS, Univ. of Minnesota, 2009, Lecturer — GIS, water resources research

Roslynn Brain, PhD, Florida, 2008, Assistant Professor and Extension Specialist — sustainable communities, pro-environmental behavior change, non-formal teaching techniques – roslynn.brain@usu.edu

Mark Brunson, PhD, Oregon State, 1991, Professor — social-ecological systems, human dimensions of ecological disturbance and invasion, restoration ecology – mark.brunson@usu.edu

Steven Burr, PhD, Penn State, 1994, Associate Professor and Extension Specialist — outdoor recreation and nature-based tourism – steve.burr@usu.edu

Layne Coppock, PhD, Colorado State, 1985, Professor — range ecology and management, international development, systems analysis – layne.coppock@usu.edu

Joanna Endter-Wada, PhD, California-Irvine, 1987, Professor — natural resource and environmental policy, water management and planning, human ecology – joanna.endter-wada@usu.edu

Nat Frazer, PhD, Georgia, 1983, Professor — STEM education, sustainability, science literacy, interaction of politics, religion and science – nat.frazer@usu.edu

Peter Howe, PhD, Penn State, 2012, Assistant Professor — human-environment geography, vulnerability and adaptation to climate change and natural hazards – peter.howe@usu.edu

Christopher Lant, PhD, Univ. of Iowa, 1988, Professor and Head — water resources management, ecosystem services, environmental policy – chris.lant@usu.edu

Christopher Monz, PhD, Colorado State, 2001, Associate Professor — recreation ecology, outdoor recreation and wilderness management – chris.monz@usu.edu

Claudia Radel, PhD, Clark, 2005, Associate Professor — international development, political ecology, feminist geography: Latin America, sub-Saharan Africa – claudia.radel@usu.edu

Charles Romesburg, PhD, Pittsburgh, 1971, Professor — environmental decision-making, natural resources research methods and survey sampling, bioethics– charles.romesburg@usu.edu

Robert Schmidt, PhD, California-Davis, 1986, Associate Professor — wildlife policy and human dimensions, wildlife damage management – robert.schmidt@usu.edu

Jordan Smith, PhD, North Carolina State Univ., 2011, Assistant Professor — outdoor recreational behavior and environmental change – jordan.smith@usu.edu

Joseph Tainter, PhD, Northwestern 1975, Professor — social conflict in environmental issues, human responses to climate change and environmental degradation, human uses of energy and resources – joseph.tainter@usu.edu

GEOGRAPHY FACULTY IN AFFILIATED DEPARTMENTS:

Patrick Belmont, PhD, Lehigh, 2007, Assistant Professor, Watershed Sciences — watershed hydrology, sediment dynamics, geomorphology, morphodynamics – patrick.belmont@usu.edu

Thomas Edwards, PhD, Florida, 1987, Professor, Wildland Resources — spatial analysis of biodiversity, landscape ecology, wildlife habitat and vegetation modeling – t.edwards@usu.edu

Colin Flint, PhD, Colorado, 1995, Professor, Political Science — geopolitics, political geography, peace and conflict studies – colin.flint@usu.edu

Sarah Null, PhD, California-Davis, 2008, Assistant Professor, Watershed Sciences — water resources, water temperature, climate change, modeling – sarah.null@usu.edu

R. Douglas Ramsey, PhD, Utah, 1989, Professor, Wildland Resources — remote sensing, GIS, landscape ecology, spatial analysis – doug.ramsey@usu.edu

John (Jack) Schmidt, PhD, Johns Hopkins, 1987, Professor, Watershed Sciences — stream geomorphology – jack.schmidt@usu.edu

Joseph Wheaton, PhD, Univ. of Southampton, 2008, Assistant Professor, Watershed Sciences — fluvial geomorphology and ecohydraulics – joe.wheaton@usu.edu

Peter Wilcock, PhD, MIT, 1987, Professor and Department Head, Watershed Sciences — river sedimentation and earth surface processes, fluvial and hillslope geomorphology– peter.wilcock@usu.edu

WEBER STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1933
DEGREES OFFERED: B.S., B.I.S.
GRANTED 5/31/14-5/31/15: 18 Bachelors
MAJORS: 74
CHAIR: Bryan Dorsey

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Bryan Dorsey, Chair, Department of Geography, Weber State University, Ogden, Utah 84408-1210. Telephone (801) 626-6944. E-mail: bdorsey@weber.edu.

PROGRAMS AND RESEARCH FACILITIES: The Bachelor's degree in geography can be earned by following one of ten emphases in systematic geography, geography teaching, geographic technology, urban & regional planning, environmental studies, global studies, Asian studies, Latin American studies, European studies, or American ethnic studies. Many courses in cognate fields may be taken for credit as geography or interdisciplinary electives. Department facilities and resources include a Computer Cartography Laboratory, equipped with ArcGIS 10, remote sensing, and a map library. The department's computer lab consists of networked PCs, laptops, printers, scanners, and projection systems. GPS units and various data collection instruments are used during field course work. Students and faculty utilize numerous software programs in their studies, including ESRI ArcGIS 10, SPSS 17.0, Microsoft Office, and Novell Office suites.

Students also have access to the University's many Learning Support Center Labs which also contain ArcGIS 10, SPSS, and the Office software. The department's map collection includes thousands of topographic, geologic, thematic, and specialty maps. The map library is a part of Weber State University's Stewart Library, a U.S. Geological Survey map repository.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. The bachelor's degree requires 120 total hours. The geography major and the geography teaching major require 36 hours in geography. The geography emphasis within the bachelor of integrated studies program requires 18 hours. Financial aid and scholarships are available through the University, the College of Social Science, and the Department of Geography.

FULL-TIME FACULTY:

Daniel Bedford, Ph.D., Colorado, 1997, Professor — arctic, alpine, climatology, Europe

Jeremy Bryson, Ph.D., Syracuse, 2010 Assistant Professor — environment and society, urban, American West, Asia, city and regional planning

Bryan Dorsey, Ph.D., Colorado, 1996, Professor — environment and society, land use planning, Africa, physical, world regional

Eric Ewert, Ph.D., Idaho, 2003, Professor — economic, American West, urban, cartography, GIS, Latin America

Alice Mulder, Ph.D., Colorado 2003, Associate Professor — physical, world regional, U.S., Canada, gender, environmental issues

Julie Rich, D.Phil., Oxford, 2003, Professor — physical, quaternary, holocene, weather, climate, arid lands, Utah, world regional

PART-TIME AND AFFILIATED FACULTY:

Rick Ford, Ph.D., UCLA, 1997, Professor (Geosciences) — geomorphology, quaternary environments, meteorology

Klaus Gurgel, ABD, Syracuse, 1978, Adjunct Instructor — physical, world regional, history of geographic thought, Utah

Kim Hadfield, M.Ed., Utah State, 1982, Adjunct Instructor — physical, world regional, U.S., Canada

Mike Hernandez, Ph.D., Utah, 2003, Associate Professor (Geosciences) — GIS, remote sensing

Paul Richards, M.S., Oregon State, 1991, Adjunct Instructor — physical, world regional, climatology, economic

VERMONT

MIDDLEBURY COLLEGE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1800
DEGREES OFFERED: B.A.
GRANTED 9/1/14-8/31/15: 33 Bachelors
MAJORS: 71
CHAIR: Peter Nelson
DEPARTMENT ADMINISTRATIVE ASST: Jessica Hellyer

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Peter Nelson, Department of Geography, 276 Bicentennial Way, Middlebury College, Middlebury, Vermont 05753. Telephone (802) 443-3247. Fax (802) 443-2072. E-mail: pbnelson@middlebury.edu, Internet: www.middlebury.edu.

PROGRAMS AND RESEARCH FACILITIES: Middlebury is a four-year liberal arts college that grants a Bachelor of Arts in geography. With seven full-time faculty, the geography department offers a curriculum that aims toward a broad yet integrated perspective on the discipline. Beyond the classroom, students have opportunities to do a variety of internships and independent projects and to work closely with faculty on their research. The department has well equipped facilities, including modern GIS and cartography laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Middlebury is on a 4-1-4 calendar, which means that students complete 4 courses each during regular fall and spring semesters and one course during a special, one-month winter term. The winter term especially offers many opportunities for travel, internships, and independent study. Admission to Middlebury is on a need-blind, competitive basis, and financial aid is available. Additional information on admissions and financial aid can be obtained by writing the Admissions Office, Middlebury College, Middlebury, VT 05753.

FACULTY:

Guntram H. Herb, Ph.D., Wisconsin-Madison, 1993, Professor—national identity and territoriality, native borderlands, maps and geopolitics, history of geography, Europe

Joseph Holler, Ph.D., SUNY-Buffalo, 2012, Visiting Assistant Professor—geographic information science, social vulnerability and adaptation, development geographies, political ecology

Jeffrey T. Howarth, Ph.D., California-Santa Barbara, 2007, Assistant Professor—spatial thinking in problem-based learning, instructional design for GIS and cartography, GIS in planning and design

Jessica L'Roe, M.A., M.Sc., ABD, Wisconsin-Madison, Assistant Instructor—people-environment geography, forest conservation and economic development, land use change, rural livelihood dynamics, East Africa, Latin America

Tamar Mayer, Ph.D., Wisconsin-Madison, 1985, Professor—political and cultural geography, nationalism, political landscapes, gender, development, Middle East, Central Asia, Xinjiang

Peter B. Nelson, Ph.D., Washington, 1999, Professor—economic geography, population migration, rural restructuring, urban-rural linkages

Bradley S. Gardener, Ph.D., CUNY Graduate Center, 2012, GIS Teaching Fellow—urban geography, critical GIS, gentrification, geography of sport, Jewish migration and identity, racialization, Social Theory

Lindsay D. Dreiss, M.Sc., ABD, Connecticut, GIS Teaching Fellow—GIS, forest ecophysiology, plant phenology and climate change, invasive species, spatial dynamics of biodiversity, natural resources management

UNIVERSITY OF VERMONT

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1965
DEGREES OFFERED: B.A.
GRANTED 9/1/14-8/31/15: 12 Bachelors
STUDENTS IN RESIDENCE: 76 Geography Majors; 33 Geography Minors; 70 Geo-spatial Technologies Minors
CHAIR: Lesley-Ann Dupigny-Giroux

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, University of Vermont, 200 Old Mill, 94 University Place, Burlington, Vermont 05405-0114.
Telephone (802) 656-2063. Fax (802) 656-3042.
E-mail: geography@uvm.edu.
World Wide Web <http://www.uvm.edu/~geograph>.

PROGRAMS AND RESEARCH FACILITIES: The department offers a rich program that covers a broad range of subfields within the discipline. Department faculty members have had substantial

international experience, and are also involved in studies on Vermont. The University, with 10,000 full-time students, is likewise of human scale, promoting close contact between students and faculty. The campus is located in Burlington, a highly attractive city of 40,000 in a metropolitan area of 150,000. The Green Mountains form the eastern backdrop, and Lake Champlain and Adirondack Mountains the western view. Montreal is only two hours away by car. Within a 50-mile radius, there is an unequaled range of settings for interesting fieldwork in human and physical geography. The B.A. degree requires thirty-three credits in geography plus meeting College of Arts & Sciences distribution requirements and general education requirements such as 'sustainability' and 'writing and information literacy'. The Geo-Spatial Technologies minor is a cross-College collaboration among Geography, Natural Resources, Engineering and Computer Science. Among the facilities are a library with more than one million volumes; a map library; and well-equipped cartographic, GIS and remote sensing laboratories, the Vermont State Climate Office, two physical geography laboratories and a human geography laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: UNDERGRADUATE: The University is on the Semester system. The University of Vermont Catalog offers full information on admission requirements and financial aid opportunities. Consideration for admission relates to the secondary school record, recommendations, College Board Scholastic Aptitude Test results, writing ability, and other supportive information. Application forms may be obtained from the Admissions Office, University of Vermont, 194 South Prospect Street, Burlington, Vermont 05405-3596 or www.uvm.edu. The University will consider provision of financial aid based on a calculated determination of financial need.

FACULTY:

Pablo Bose, Ph.D., York University, 2006, Associate Professor—Migration, urban geography, refugees, development and environment, community-based research, India and South Asia

Meghan Cope, Ph.D., University of Colorado, 1995, Professor—urban social geography, gender, race, children's/youth geographies, historical geography, qualitative research, critical and qualitative GIS

Lesley-Ann Dupigny-Giroux, Ph.D., McGill University, 1996, Professor and Chair—physical geography, climatology, remote sensing, GIS, hazards, drought, land-surface interactions, climate education, Northeastern North America, Vermont, Vermont State Climatologist

Cheryl Morse, Ph.D., University of British Columbia, 2006, Assistant Professor—social geography, rural studies, human-environment interactions, Vermont

T. Harlan Morehouse, ABD, University of Minnesota, Lecturer—contemporary environmental thought and practice, nature-society, human-nonhuman relationships

Ingrid Nelson, Ph.D., University of Oregon, 2012, Assistant Professor—political ecology; critical development studies; gender, sexuality and environment; critical GIS; southern Africa

Shelly A. Rayback, Ph.D., University of British Columbia, 2003, Associate Professor—physical geography, biogeography, dendrochronology, paleoclimatology, climate change, isotopes, Arctic, Northeastern North America, Himalayas

Beverley Wemple, Ph.D., Oregon State, 1998, Associate Professor—physical geography, geomorphology, water resources, GIS, quantitative methods

ADJUNCT AND EMERITI FACULTY:

Pierre Deslauriers, Ph.D., Université de Montréal, 1998, Adjunct Lecturer—metropolitan dynamics, rural-urban fringe, geography and literature, Canada

Marla Emery, Ph.D., Rutgers, 1998, Adjunct Associate Professor—political ecology, traditional ecological knowledge, alternative economic theory, northeastern North America

Cathleen Geiger, Ph.D., Dartmouth College, 1996, Adjunct Professor—physical geography, snow and ice, planetary thermal stability, quantitative methods, scale analysis

Richard S. Kujawa, Ph.D., Iowa, 1990, Adjunct Professor—political, urban, economic, environmental policy, planning

Aulis Lind, Ph.D., Wisconsin, 1968, Professor Emeritus

Catrina MacKenzie, Ph.D., McGill University, 2012, Adjunct Lecturer—political ecology, conservation, sustainability, Africa

Susannah McCandless, Ph.D. Clark University, 2009, Adjunct—race, ethnicity and gender, immigration, community forestry, resource access, commons, social effects of conservation, land trusts, Vermont

Nicholas 'Pete' Shear, MA University of Vermont, 1997, Adjunct Lecturer—political geography, land use conflicts, Meso-American and Andean history, Ecuador

Stuart White, Ph.D., University of Wisconsin–Madison, 1981, Adjunct Assistant Professor—pre-Columbian Andes, mountain farming systems, conservation, paramo landscapes

VIRGINIA

GEORGE MASON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOINFORMATION SCIENCE

FOUNDED: 2008; formerly the DEPARTMENT OF GEOGRAPHY, Founded 1991, and the DEPARTMENT OF EARTH SYSTEMS AND GEOINFORMATION SCIENCES, Founded 2002

UNDERGRADUATE PROGRAMS FOUNDED: 1972

GRADUATE PROGRAMS FOUNDED: 1978, 2002, 2004, 2010

DEGREES OFFERED: B.A. and B.S. in Geography; Minors in Geography and in Geographic Information Systems; M.S. in Geographic and Cartographic Sciences; M.S. in Geoinformatics and Geospatial Intelligence; M.S. in Earth Systems Science; Ph.D. in Earth Systems and Geoinformation Sciences; Graduate Certificates in Geographic Information Sciences, Remote Sensing and Earth Image Processing, and **Geospatial Intelligence (Also available as online program)**

GRANTED 9/1/14-8/31/15: 9 Ph.D. in Earth Systems and Geoinformation Sciences, 20 M.S. in Geographic and Cartographic Sciences, 7 M.S. in Geoinformatics and Geospatial Intelligence, 20 Graduate Certificates, 26 B.A./B.S. in Geography

MAJORS (Fall 2015): 80 Geography; 34 Geographic and Cartographic Sciences, 30 Geoinformatics and Geospatial Intelligence; 5 Earth Systems Science; 84 Earth Systems and Geoinformation Sciences, 21 Graduate Certificates

CHAIR: Anthony Stefanidis

DEPARTMENT MANAGER: Debbie Hutton

FOR FURTHER INFORMATION: http://ggs.gmu.edu, ggs@gmu.edu

PROGRAMS AND RESEARCH FACILITIES:
The Department of Geography and Geoinformation Science (GGS) offers B.A. and B.S. degree programs in Geography, the former requiring a minor or second major in another field. The B.S. in Geography provides an extensive range of courses in remote sensing, geographic information systems, and cartography. At the graduate

level, the GGS Department offers the M.S. in Geographic and Cartographic Sciences, the M.S. in Geoinformatics and Geospatial Intelligence and administers the M.S. in Earth Systems Science (offered jointly with the Department of Atmospheric, Oceanic and Earth Science). GGS offers a Ph.D. in Earth Systems & Geoinformation Sciences with six core foci: quantitative skills, geoinformatics, physical geography, human geography, GIS, and remote sensing.

Students in our degree programs are invited to join GGS faculty in their research in Geographic Information Science, Remote Sensing, Digital Image and Video Analysis, Human and Physical Geography, Geoinformatics, Environmental Sciences, and other related areas. The Department, including several affiliated centers (Center of Excellence in Geographic Information Science, Center for Earth Observing and Space Research, I/UCRC for Spatiotemporal Thinking, Computing and Applications, Center for Intelligent Spatial Computing for Water/Energy Science, and the Center for Geospatial Intelligence), has state-of-the-art research facilities to support research and instruction. The Department also offers three graduate certificates in Geographic Information Science, Geospatial Intelligence, and Remote Sensing & Earth Image Processing, to provide graduate-level training to the working community in the Washington, DC metropolitan area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. Most GMU graduate courses are offered in the evenings. Many graduate students are employed full or part-time in government and industry positions in geography, remote sensing, GIS, intelligence, earth science, geoinformatics, and other related fields.

Applicants for the M.S. in Geographic and Cartographic Sciences (GECA) program should have a bachelor's degree in Geography, Cartography or equivalent, with a grade point average of at least 3.0 (on a 4.0 scale) and should present GRE scores. Other applicants may be considered for provisional or non-degree status. Applicants should also present a course in statistics or spatial analysis prior to full admission.

Applicants for the M.S. in Geoinformatics and Geospatial Intelligence (GEOI) program should have a bachelor's degree in a discipline related to the program's theme, with a grade point average of at least 3.0 (on a 4.0 scale) and should present GRE scores and courses in differential and integral calculus. This program addresses the emerging demand for scientists trained in the collection, organization, analysis, and dissemination of information about physical features, man-made structures, moving objects, people, and events that are geo-referenced or geo-located. It focuses primarily on the computational approaches that support the synthesis and analysis of diverse types of data, in order to identify and monitor complex events and phenomena that manifest themselves over space and time. Other applicants may be considered for provisional or non-degree status.

Students with backgrounds in Geography, Earth Systems, one of the physical science disciplines, Engineering, or equivalent can apply for the M.S. in Earth Systems Science (ESS) program and for the Ph.D. in Earth Systems and Geoinformation Science (Ph.D. ESGS). The M.S. ESS degree requires 30 hours of course work, including a thesis or a project and exam.

As previously mentioned, the Ph.D. ESGS degree has concentrations in Geography, GIS, Geosciences, and Remote Sensing and Earth Observation. Forty-two hours beyond the Master degree or 72 hours beyond the baccalaureate degree, plus comprehensive exams and a dissertation are required. Depending on the applicant's credentials and background, a number of Graduate Teaching Assistantships (stipends and tuition supplements) may be awarded on a competitive basis. One Presidential Fellowship per year may be offered to a PhD applicant meeting a minimum combined math and verbal GRE score of 270/340 along with a GPA of 3.5 or higher on a 4.0 scale.

The Graduate Certificates in Geographic Information Sciences and in Remote Sensing & Earth Image Processing each require 15 hours; while the Certificate in Geospatial Intelligence requires 18 hours of course work. As noted above this certificate is available as a partly online program. See http://masononline.gmu.edu/programs/geospatialintelligencegraduatecertificate/.

Detailed information about the GGS Department and requirements for all its degrees may be viewed at: http://catalog.gmu.edu.

Information about scholarships and loans is available through the Office of Student Financial Aid. See: http://financialaid.gmu.edu.

FULL-TIME FACULTY:

Peggy Agouris, Ph.D., The Ohio State University, 1992, Professor and Dean, College of Science, Director of Center for Earth Observing and Space Research — digital image processing/analysis, spatio-temporal information modeling and management, geospatial information systems, optical remote sensing, photogrammetry

Patricia Boudinot, A.B.D., University of Dijon, France, Instructor — human dimensions of natural disasters, cultural geography

Arie Croitoru, Ph.D, Technion – Israel Institute of Technology, 2002, Associate Professor — computational geoinformatics, digital image analysis, geospatial/spatiotemporal data modeling, social media analysis, photogrammetry

Kevin Curtin, Ph.D., University of California - Santa Barbara, 2002, Associate Professor and Associate Dean, College of Science — GIS, transportation, network analysis, location science, Colombia

Paul Delamater, Ph.D., Michigan State University, 2012, Assistant Professor — health and medical geography, spatial analysis and statistics

Liping Di, Ph.D., University of Nebraska-Lincoln, 1991, Professor and Director of Center for Spatial Information Science and Systems — GIS, remote sensing, interoperability

Sven Fuhrmann, Ph.D., Westfaelische Wilheims Universitaet Muenster, Germany, 2002, Associate Professor — geoinformatics, geovisualization

Barry N. Haack, Ph.D., University of Michigan, 1977, Professor — physical, environmental, remote sensing, development

Paul R. Houser, Ph.D., University of Arizona, 1996, Associate Professor and co-Director of the Center for Intelligent Spatial Computing for Water/Energy Science — global hydrology, water cycle dynamics, land surface

Jonathan Kozar, Ph.D., University of North Carolina at Charlotte, 2012, Term Assistant Professor — geography and urban regional analysis

Timothy Leslie, Ph.D., Arizona State University, 2007, Associate Professor and Associate Chair — Urban-economic development, spatial statistics, health geography

Dieter Pfoser, Ph.D., Alborg University, 2000. Associate Professor — Spatial and spatiotemporal databases, Graph algorithms - shortest-path computation, map matching Crowdsourcing geospatial data, Volunteered Geographic Information

John J. Qu, Ph.D., Colorado State University, 1997, Professor and Director of GENRI and ESTC — remote sensing, fire sciences, atmospheric sciences, Earth data computing and GIS applications

Matt Rice, Ph.D., University of California-Santa Barbara, 2005, Assiociate Professor — geographic information science, geovisualization

Anthony Stefanidis, Ph.D., The Ohio State University, 1993, Professor and Chair, Director of Center for Geospatial Intelligence — image and video analysis, social media analysis, geospatial intelligence, geo-sensor networks

Donglian Sun, Ph.D., University of Maryland, College Park, 2003, Associate Professor — remote sensing, algorithm development, numerical modeling simulation

David W. Wong, Ph.D., State University of New York, Buffalo, 1990, Professor — spatial analysis and statistics, GIS, population, public health

Chaowei (Phil) Yang, Ph.D., Peking University, China, 2000, Professor and co-Director of Center for Intelligent Spatial Computing for Water/Energy Science and Director of I/UCRC for Spatiotemporal Thinking, Computing and Applications — distributed geospatial information processing: architecture and algorithms, interoperability, high performance computing, spatial web portal, geographical object storage systems

Ruixin Yang, Ph.D., University of Southern California, 1990, Associate Professor — geosciences, data analysis, data mining, data information systems

Andreas Zufle, Ph.D., Ludwig Maximilian University Munich - Germany, 2013, Assistant Professor — Managing and Mining Uncertain Data, Managing and Mining Rich Spatial Data, Geo-Social Network Mining

SYSTEMS SUPPORT:

Na Liu, M.S, University of South Carolina, 1999, Geographic Information Systems Laboratory Manager

Jacek Radzikowski, M.S, Warsaw University of Technology, 1996, and George Mason University, 2007, Geospatial Intelligence and Geoinformatics Laboratory IT Manager

JAMES MADISON UNIVERSITY

GEOGRAPHIC SCIENCE PROGRAM
DEPARTMENT OF INTEGRATED SCIENCE AND TECHNOLOGY
DATE FOUNDED: 1970
DEGREES OFFERED: B.A., B.S.
GRANTED 9/1/14-8/31/15: 60 Bachelors
STUDENTS IN RESIDENCE: 191 Majors
PROGRAM COORDINATOR: Dr. Mace Bentley
DEPARTMENT ADMINISTRATIVE ASST: Cindi Wilson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Cindi Wilson, Integrated Science and Technology, Geographic Science Program, James Madison University, MSC 4302, Harrisonburg, Virginia 22807.
Telephone (540) 568-2799. Fax (540) 568-8741.
E-mail: wilsoncf@jmu.edu. Internet: www.gis.jmu.edu

PROGRAMS AND RESEARCH FACILITIES: Geographic Science (GS) at JMU is a vibrant community of professors and students who join together to learn, solve problems, and make a difference in the world. Our program offers a unique, holistic approach: the geographical perspective. Geography emphasizes the examination of the environmental and human processes that shape our planet and our lives; how humans interact with their environment; and, how place matters to environmental, economic and cultural issues.

Geography is a bridge between the social sciences (human geography) and the natural sciences (physical geography). More than this, geography trains students in the latest geospatial technologies – geographic information systems (GIS), earth observation, and other cutting edge tools – to analyze global change. The primary challenges facing our world and humanity in the coming century can be examined and addressed very effectively by the geographical approach.

Students in the Geographic Science program select one or both of the following concentrations: Applied Geographic Information Science (AGIS) and/or Environmental Conservation, Sustainability and Development (ECSD). Facilities include four state-of-the-art computer laboratories used for instruction, research, and applied work. The computer labs include the following geography-related software packages: ArcGIS (through an ESRI site license), TerrSet Geospatial Monitoring and Modeling Software (University site license), QGIS, PCI Geomatica, Trimble Pathfinder Office, eCognition, R, SPSS and others. Additionally, a wide variety of field and analytical equipment is available to students and faculty. This includes a large topographic map and aerial photograph collection, water and soil testing equipment, meteorological equipment, a GPS base station, and Trimble GPS units.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Admission is handled by the Admissions Office. Applicants must have a high school diploma, submit appropriate forms, references, and SAT scores. All applicants are encouraged to visit the Geographic Science Program website and visit the JMU Admissions website: www.jmu.edu/admissions/. Applicants can also write to the Admissions Office, James Madison University, MSC 0101, Harrisonburg, Virginia 22807 for application materials.

FACULTY:

Mace Bentley, Ph.D., Georgia, 1999, Professor—meteorology, climatology, human-environment interactions

Thomas Benzing, Ph.D., Michigan, 1993, Professor—hydrology, water resources

Dudley Bonsal, Ph.D., Minnesota, 2015, Assistant Professor—GIS, cartography, land use/land cover analysis, agent-based modeling, landscape ecology, soundscapes

Zachary Bortolot, Ph.D., Virginia Tech, 2004, Associate Professor—remote sensing, GIS, natural resources

Jennifer Coffman, Ph.D., North Carolina, 2000, Associate Professor—environment, development, political ecology, sociocultural change, East Africa

Mike Deaton, Ph.D., Virginia Tech, 1980, Professor—spatial analysis, statistics, systems modeling

Joy Ferenbaugh, Ph.D., Texas Tech, 2007, Assistant Professor—wildlife management, anthropogenics on ecosystems

Amy Goodall, Ph.D., Nebraska-Lincoln, 1999, Associate Professor—biogeography, biodiversity, human-environment interactions

Robert Kolvoord, Ph.D., Cornell, 1990, Professor and Dean of the College of Integrated Science and Engineering—environmental GIS

Helmut Kraenzle, Ph.D., Ludwig-Maximilians-University of Munich, 1991, Professor—GIS, spatial databases

David McGraw, JD, Georgetown, 1997, Professor—political geography, environmental law and ethics

Carole Nash, Ph.D., Catholic University 2009, Associate Professor—cultural ecology, landscape, field studies

Maria Papadakis, Ph.D., Indiana, 1991, Professor—population geography, energy and environment, economic development

Mary Tacy, Ph.D., Georgia, 1991, Professor—climatology, humanitarian affairs and the Caribbean

Wayne Teel, Ph.D., Cornell, 1994, Professor—geography of Africa, sustainability, agroforestry

Henry Way, Ph.D., Kansas, 2008, Associate Professor—cultural, urban and political geography

EMERITI FACULTY

Joseph Enedy, Ph.D., Kent State, 1972—North America geography and regional geography

Jack Gentile, Ph.D., Oregon State, 1983—resource and environmental geography

Glen C. Gustafson, Ph.D., Munich, 1973—aerial photography and remote sensing

OLD DOMINION UNIVERSITY

DEPARTMENT OF POLITICAL SCIENCE & GEOGRAPHY
DATE FOUNDED: 1980
DEGREES OFFERED: B.A., B.S. in Geography; M.A. in Humanities (concentration in Human Geography)
DEGREES GRANTED 6/1/15-5/31/16: 23 Bachelors
STUDENTS IN RESIDENCE: 80 Bachelors; 3 Masters
GEOGRAPHY PROGRAM DIRECTOR: Jonathan Leib
DEPARTMENT ADMINISTRATIVE ASSISTANT: LaToya Dixon

FOR CATALOG AND FURTHER INFORMATION WRITE TO: For general University information contact the Office of Admissions; for information about the Geography Program contact the Director of Geography, Old Dominion University, Norfolk, Virginia 23529-0088. Telephone (757) 683-3841. Fax (757) 683-4763. E-mail: jleib@odu.edu Internet: http://www.odu.edu/al/pols-geog/

PROGRAMS AND RESEARCH FACILITIES: The geography program at Old Dominion University is staffed by a professionally active faculty committed to research, teaching, and close interaction with majors and minors. Both the B.A. and B.S. degrees are designed to provide students with a broad-based background in the discipline and a command of the tools of geographic research. In addition to a general major, students may specialize in Geographic Information Systems (GIS), Urban Geography, or Environment and Resources. Students may also pursue certificate programs in Geographic Information Science and Spatial Analysis of Coastal Environments. All of these concentrations support the University's mission to excel in areas that are appropriate to the opportunities afforded by its location in the heart of greater Hampton Roads, a major metropolitan area at the mouth of the Chesapeake Bay and one of the nation's leading ports.

The department offers extensive coursework in geospatial technology, including GIS, remote sensing, and spatial analysis, supported by a state-of-the art research and instructional GIS laboratory. In addition, the department offers a Human Geography concentration within the interdisciplinary M.A. degree program in Humanities, and participates in the interdisciplinary B.A., M.A., and Ph.D. degree programs in International Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester plan. Requirements for admission to the University include 16 units of credit from high school and official results of the SAT. Applications for admission are handled by the Office of Admissions and are reviewed continually. Most of the University's financial aid is awarded on the basis of family financial need. Further information on financial aid is available from the Office of Financial Aid and Student Employment.

FACULTY:
Michael Allen, Ph.D., Kent State, 2014, Assistant Professor—climatology, climate change, bioclimatology, meteorology
Thomas Allen, Ph.D., UNC-Chapel Hill, 1995, Associate Professor—GIS, spatial analysis, coastal, environmental
Peter Anderson, Ph.D., Utah, 1994, Lecturer—physical, biogeography, natural heritage conservation
Thomas Chapman, Ph.D., Florida State, 2007, Associate Professor—cultural, urban, political, social justice, GIS
Nicole Hutton, Ph.D., South Florida, 2016, Assistant Professor—natural hazards, organizational resilience, environmental justice
Timothy Kidd, M.S., Alabama, 2002, Senior Lecturer—political, cultural, ethnic minorities, Europe
Jonathan Leib, Ph.D., Syracuse, 1992, Professor and Program Director—political, American South, 'race' and ethnicity, cultural
Hua Liu, Ph.D., Indiana State, 2007, Associate Professor—GIS, remote sensing, urban environmental changes

ASSOCIATED FACULTY:
Zand Bakhtiari, M.A., George Washington, 2015, Adjunct Instructor—GIS
Sherry DiBari, M.A., Ohio, 2011, Adjunct Instructor—historical, cultural
Christine Drake, Ph.D., Rutgers, 1977, Professor Emerita—Asia, Africa, cultural, world resources
Justin Friberg, Ph.D., Syracuse, 1977, Associate Professor Emeritus—Latin America
Georgeanne Hribar, Ed. D., Nova Southeastern, 2005, Adjunct Assistant Professor—Europe, Russia, cultural, GIS
Heather Jersild, M.S., UC-Davis, 1989, Adjunct Instructor—environmental, cultural
George McLeod, M.S., Old Dominion, 2009, Adjunct Instructor—geospatial technologies
Valerie Mervine, M.A.S., Arizona State, 2009, Adjunct Instructor—human geography, U.S. and Canada
Donald Zeigler, Ph.D., Michigan State, 1980, Professor Emeritus—urban, Middle East, Latin America

UNIVERSITY OF MARY WASHINGTON

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1959
DEGREES OFFERED: B.A., B.L.S., Certificate in GISc, M.S. in Geospatial Analysis
GRANTED 9/1/15-8/31/16: 36 B.A. Geography, 24 Certificates in GISc, 6 M.S. Geospatial Analysis
MAJORS: 100
CHAIR: Jackie Gallagher

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Jacqueline Gallagher, Chair, Department of Geography, University of Mary Washington, Fredericksburg, Virginia 22401. Telephone (540) 654-1493. Fax (540) 654-1074.
Email: jgallagh@umw.edu. Internet: http://cas.umw.edu/geography/ and http://cas.umw.edu/gis/masters/.

PROGRAMS AND RESEARCH FACILITIES:
The University of Mary Washington is public liberal arts institution with about 4000 undergraduate students. The Geography Department offers a new master's of science in Geospatial Analysis (MSGA) and two undergraduate programs: a major in Geography and a Certificate in GISc. The Bachelor of Liberal Studies (BLS) is an adult degree-completion program with a major in Geography. The MSGA program is designed for professionals and four-year college graduates who have successfully completed at least two GIS-related courses. The program emphasizes spatial thinking, web-based GIS, image analysis, and statistical modeling. It can be completed in 12-months by full-time students.

The geography major has three areas of emphasis: 1) Community, Development, and Culture; 2) Globalization; and 3) Nature and Society. All geography majors receive rigorous training in research methods and geographic techniques appropriate for their area of emphasis and are encouraged to pursue independent research projects and/or internships. The GISc certificate includes required courses in GIS programming and a capstone research project typically completed through an internship. The department's strengths are enhanced by its

involvement with interdisciplinary programs in International Affairs, American Studies, Environmental Science, Urban Studies, and Middle Eastern Studies. This geography program prepares students for further study at the graduate level in geography, planning, and related disciplines, as well as for careers with a variety of governmental agencies and private organizations. Recent graduates work in GIS/cartography, urban and regional planning, intelligence, and environmental consulting.

The department's facilities include laboratories for training and student-faculty research in GIS, cartography, remote sensing, pollen analysis, and physical geography. The affiliated Center for Spatial Analysis and Research generates grants and contracts that provide undergraduate research and internship opportunities. UMW's location midway between Washington, DC, and Richmond, VA offers immediate access to numerous major research libraries as well as abundant opportunities for internships with private organizations, international institutions, and federal, state, and local agencies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
The University of Mary Washington employs a semester system. The MSGA is a 30-credit, 12 month program culminating in a capstone project completed either through an independent project. Students accepted into the program typically have at least a 3.0 undergraduate GPA and have either completed two college-level GIS-related courses or demonstrate professional experience equivalent to such courses. For undergraduates, the university takes a personal approach to admissions. Each application is reviewed and weighed along with a variety of other supporting information. Successful applicants are usually in the top one-fifth of their high school class and have combined S.A.T scores averaging over 1200. Acceptance of the university's Honor System is a prerequisite for enrollment and competence in a foreign language is a requirement for graduation. Financial aid is available from a variety of sources for all students who can demonstrate need.

FACULTY:
Dawn S. Bowen, Ph.D., Queen's University, 1998, Professor — historical, environmental, North America, Latin America, field methods
Caitlyn Finlayson, Ph.D., Florida State University, 2012, Assistant Professor — cultural geography, geography of religion, geographic thought, nature-society, research methods
Jacqueline Gallagher, Ph.D., UCLA, 1996. Associate Professor and Chair — Quaternary geomorphology, biogeography, natural hazards, GPS and mobile GIS, field methods
Stephen P. Hanna, Ph.D., University of Kentucky, 1997, Professor — critical cartography and GIS, landscape and race, globalization and local development
Marco Millones Mayer, Ph.D., Clark University, 2011, Assistant Professor – GIScience, Remote Sensing, human-environment interactions, policy impact evaluation, risk assessment
Joseph W. Nicholas, Ph.D., University of Georgia, 1991, Associate Professor — geomorphology, Quaternary studies, climatology, alpine environments
Melina A Patterson, Ph.D., Rutgers University, 2002, Associate Professor — urban geography and planning, community development, political geography of education, emergence of the modern world economy
Brian Rizzo, Ph.D., University of Virginia, 2008, Associate Professor and Director, GIS Programs — GIScience, environmental science, business applications of GIS
Farhang Rouhani, Ph.D., University of Arizona, 2001, Professor — political and cultural globalization, Middle East, social justice, international migration, qualitative methods
Ping Yin, Ph.D., University of Georgia, 2012, Assistant Professor — GIScience, spatial epidemiology, web-based GIS

UNIVERSITY OF RICHMOND

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT
DATE FOUNDED: 2008
DEGREES OFFERED: B.A.
CHAIR: Todd Lookingbill
DEPARTMENT ADMINISTRATIVE ASST: Nancy Propst

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Todd Lookingbill, Department of Geography and the Environment, University of Richmond, #311 Carole Weinstein International Center, Richmond, Virginia 23173.
Telephone (804) 289-8265. Fax (804) 484-1577.
E-mail: tlooking@richmond.edu.
Internet: http://geography.richmond.edu/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and the Environment is the University of Richmond's newest department. Our objective is to cultivate informed and engaged global citizens through an emphasis on integrative problem solving, spatial analysis, and communication skills. Our department bridges the natural sciences, social sciences, and the humanities to provide a better understanding of the earth's cultural and biological diversity.

Majors and minors complete course work in three areas: (1) human geography; (2) geographical techniques; and (3) physical geography and environmental systems. The department has a state-of-the-art computer facility dedicated exclusively to spatial analysis (http://geography.richmond.edu/spatial-analysis-lab/index.html). Our curriculum highlights active, experiential learning and community engagement. Students are encouraged to study abroad. Internships and independent studies are encouraged throughout the year. Paid summer research fellowships and paid summer internships are available.

The department hosts a chapter of Gamma Theta Upsilon, the International Geographical Honor Society, and a student-run Geographic Club.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: University of Richmond is on a semester plan. Admission requirements are available from the Office of Admissions (http://admissions.richmond.edu/) and financial aid information may be obtained from the Financial Aid Office (http://financialaid.richmond.edu/).

FACULTY:
Mary Finley-Brook, Ph.D., University of Texas, Austin, 2006, Associate Professor—political geography, economic geography, university sustainability, climate policy, Indigenous Peoples, territoriality and land rights, Latin America and the Caribbean
Kimberley Klinker, M.S., George Mason University, 1993, Director of the Spatial Analysis Lab and Professor of Practice—GIS, human geography, Middle East
Todd R. Lookingbill, Ph.D., Duke University, 2003, Associate Professor and Chair—landscape ecology, physical geography, natural resources management, parks and protected areas, James River watershed
David S. Salisbury, Ph. D., University of Texas, Austin, 2007, Associate Professor—conservation and development, political ecology, Amazonia, borderlands, cartography

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY
FOUNDED: 1935
GRADUATE PROGRAM FOUNDED: 1983
DEGREES OFFERED: B.A., B.S., M.S.
GRANTED 6/01/15 - 5/31/16: 19 Bachelors, 16 Masters
STUDENTS IN RESIDENCE: 60 majors, 19 Masters
NOT IN RESIDENCE: 22 Masters
CHAIR: John Bowen
DEPARTMENT SECRETARY: Monica Reece-Bruya

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
John Bowen, Chair, Geography, Central Washington University, 400 E. University Way, Ellensburg, Washington 98926-7420.
Telephone (509) 963-1188. TDD (509) 963-3323.
Fax (509) 963-1047. Internet: www.cwu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES:
CWU offers both the B.A. and a B.S. in geography. The B.A. is a good choice for students who want flexibility to customize their curriculum beyond the five-course core common to all major. The B.A. offers broad training that will lead to careers in international affairs and trade, planning, or education. Students pursuing the B.S. may choose either the geographic information science (GIScience) specialization or the environmental and resource geography specialization. The GIScience route provides a suite of skills to process, analyze, and interpret geospatial data and teaches students how to use the skills to solve real-world problems. The environmental and resource geography specialization emphasizes laboratory and field research skills and provides comprehensive, integrated scientific knowledge of Earth systems and their relationship to human societies—especially in the Pacific Northwest. This option gives students a leg up in a wide range of careers, especially natural resource management.

Courses in our program emphasize field learning, both in physical and human geography. Additionally, many of our majors complete internships with public and private organizations in the Pacific Northwest. On campus, the department also maintains a well-appointed Geography Information Systems laboratory that benefits majors from other programs in addition to geography. We also have state-of-the-art labs for work in paleoecology, soil science, and hydrology.

Geography is one of three departments that support an interdisciplinary M.S. in Cultural & Environmental Resource Management (CERM) degree, providing most of the natural resource component of the program. Details of this program are available at www.cwu.edu/resource-management. Recent master's thesis research efforts have focused on restoration of salmon habitat, water resources and watershed analysis, sacred sites and indigenous geographies, historic preservation, regional land use planning, and forest recreation management. Geography is also actively involved in several other interdisciplinary programs, including Asian Studies, Environmental Studies, Integrated Energy Studies, Latino & Latin American Studies, and Public Policy.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Central Washington University operates on the quarter system with ten-week terms beginning in mid-September. Admission to the University requires a comprehensive high school background with a minimum grade average of C+/B-. Financial aid is available to qualified students. Details on admissions and financial aid are available from the Admissions Office, Central Washington University, 400 E. 8th Ave., Ellensburg, Washington 98926.

Admission to the Resource Management graduate program requires a grade average of B or higher, GRE scores above the 45th percentile, and solid academic background in a technical field, of which geography is but one possibility, and academic recommendations. Assistantships are available to qualified applicants. Central Washington University is an EEO/AA/Title IX Institution.

FACULTY:
Kevin Archer, Ph.D., Johns Hopkins University, 1990, Dean of Graduate Studies & Research—social construction/production of nature, globalization
John T. Bowen, Jr., Ph.D., University of Kentucky, 1993, Associate Professor and Chair—economic geography, air transport systems, logistics, Southeast Asia
Elvin Delgado, Ph.D., Syracuse University, 2012, Assistant Professor—political ecology, energy and capitalism, critical resource geography
Anthony O. Gabriel, Ph.D., University of Guelph, 1993, Professor—physical geography, biogeography, coastal environments, wetlands
Robert J. Hickey, Ph.D., University of Idaho, 1994, Professor—GIS and remote sensing, natural resources management, economic geology
Karl D. Lillquist, Ph.D., University of Utah, 1994, Professor—geomorphology, soils, environmental change, arid lands, mountain environments
Jennifer Lipton, Ph.D. University of Texas, 2008, Associate Professor—biogeography, landscape ecology, conservation and development, remote sensing, GIS, Latin America
Michael Pease, Ph.D., Southern Illinois University, 2008, Associate Professor—arid lands, field methods, water resources, American Southwest
Sterling Quinn, Ph.D., Pennsylvania State University, 2016, Assistant Professor—geovisual analytics, social aspects of GIS, critical cartography, web mapping approaches
Craig S. Revels, Ph.D., Louisiana State University, 2002, Associate Professor—cultural, historical, and economic geography, Latin America
Megan Walsh, Ph.D., University of Oregon, 2008, Associate Professor—paleoecology, physical geography, Pacific Northwest

ADJUNCT FACULTY:
Holly A. English, M.S., University of Denver—physical geography, environmental studies, energy resources
Elaine K. Glenn, M.S., Brigham Young University—world regional geography, political geography, Russia

EMERITI FACULTY:
James E. Brooks, Ph.D., University of Washington, 1957—physical geography, international trade, growth management
Dee R. Eberhart, M.A., Northwestern University, 1950—economic geography, land development, Europe
Kenneth A. Hammond, Ph.D., University of Michigan, 1969—conservation, resource planning and legislation, Pacific Northwest
James L. Huckabay, Ph.D., University of Kansas, 1975—energy resources, climatology, air photo interpretation
Nancy B. Hultquist, Ph.D., University of Idaho, 1991—economic geography, GIS, urban geography, computer cartography
Robert Kuhlken, Ph.D., Louisiana State University, 1994—historical geography, urban and regional planning, cultural ecology, Oceania, North America
George Macinko, Ph.D., University of Michigan, 1961—environmental studies, land use, resource geography

John Q. Ressler, Ph.D., University of Oregon, 1970—cultural geography, Latin America, GIS
Morris L. Uebelacker, Ph.D., University of Oregon, 1987—human geography, field methods, Columbia River Basin

STAFF:
David Cordner, M.S., Science Instructional Technician III
Monica Reece-Bruya, Secretary Senior
Craig Scrivner, Ph.D., Computer System, Network Administrator

EASTERN WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY
DATE FOUNDED: 1955
DEGREES OFFERED: B.A., M.A.
GRANTED 07/01/014-06/30/15: 11 Bachelors
MAJORS: 50
GRADUATE STUDENTS: 10-15
CHAIR: Robert Sauders
DEPARTMENT ADMINISTRATIVE ASST: LeAnn Knoles

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Stacy Warren, Program Director, Department of Geography and Anthropology, 103 Isle Hall, Eastern Washington University, Cheney, Washington 99004-2417. Telephone (509) 359-7962 or 359-2433. Fax (509) 359-2474. Internet: www.ewu.edu.

PROGRAMS AND RESEARCH FACILITIES:
The Department of Geography and Anthropology at Eastern Washington University is a small yet dynamic program, with research and teaching foci that span both human and physical geography. We are located in the heart of the Intermountain Northwest, with campuses in Cheney and Spokane, and are in close proximity to the Northern Rocky Mountains, Columbia Basin, Channeled Scablands, and the Palouse.

The EWU undergraduate program in geography seeks to cultivate geographic literacy as an indispensable element of a liberal arts education. A broad range of course offerings serve students seeking both professional careers and continued higher education. Areas of current faculty interest include critical urban studies, political geography, critical GIS, geography of children, popular culture theory, water resource management, dendrochronology, geomorphology, climatology, wetland science, energy and transportation, and environmental studies. Many courses are cross-listed, as the Geography program works with the Anthropology, History, Geology, International Affairs, Urban and Regional Planning, Computer Science, Biology and Education. Geography majors are encouraged to participate in an active internship program to gain practical employment skills before graduation and/or as part of a broader research project. We also offer certificates in GIS and Wetland Studies, as well as an interdisciplinary M.A. degree in Critical GIS and Public Anthropology. The Master's program is oriented toward research projects that are, though not exclusively, actively engaged with community organizations.

Geography, along with the affiliated programs of Anthropology, Archaeological & Historical Services occupies Isle Hall at the Cheney campus. The department has a fully-equipped Geographic Information Systems Laboratory, as well as a map library that contains a 200,000-sheet collection.

ACADEMIC REQUIREMENTS, AND FINANCIAL AID:
Eastern Washington University is a regional state university and offers classes on a four-quarter schedule, Fall through Summer.

FACULTY:
Matthew Anderson, Ph.D., University of Illinois at Urbana-Champaign, 2012, Assistant Professor — Critical urban studies, political geography, natural resource management, critical social and spatial theory
Michael Minn, Ph.D., University of Illinois at Urbana-Champaign, 2014, Assistant Professor — Energy, transportation, spatial analysis, human-environment relations
Robert Sauders, Ph.D., American University, 2007, Associate Professor — Political, cultural heritage and anthropological studies, Middle East, Palestine, cultural studies. [Joint Appointment with Anthropology]
Lauren Stachowiak, PhD., University of Tennessee, 2016, Assistant Professor — Dendrochronology, forest fire behavior, climate science, and geomorphology
Stacy Warren, Ph.D., University of British Columbia, 1994, Professor — Cultural and urban, critical GIS, Disney studies, popular culture theory, geography of children

SKAGIT VALLEY COLLEGE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CERTIFICATE OFFERED: Geographic Information Systems (GIS)

FOR FURTHER INFORMATION PLEASE CONTACT:
Shawna M. Blue, Program Assistant for the Department of Environmental Conservation, 2405 E. College Way, Mt. Vernon, WA 98273. Telephone (360) 416-7817. Email: Shawna.blue@skagit.edu

Geographic Information Systems (GIS). The Geographic Information Systems (GIS) classes are designed to provide students with software knowledge to manage information or attributes that have a geographic reference point attached. Different attributes and types of information can be displayed as maps. This allows analyzing data with respect to its spatial relationships. Geographic Information Systems are software and hardware that electronically manage these spatial data sets on virtual or real maps. Their use is revolutionizing spatial analysis in forestry, fish and wildlife, population studies, land-use planning, marketing, and other fields that involve the integration of information and geography. Advanced uses integrate GPS data management with mapping and displaying software.

GIS software is used by real estate agents, city and county administrations, natural resource managers, fish and wildlife managers, sales analysts, utility companies, and environmental managers.

A certificate in Geographic Information Systems (19 credits) is granted upon completion of the following requirements with 2.0 GPA or above: GIS 101, 102, 105, 106, and 203. GIS courses must be taken in this sequence.

Course Descriptions:
GIS 101 Introduction to Geographic Information Systems (5)
Principles and conceptual overview of GIS software, its use and applications in natural resource management with hands-on experience using Arcview. Computer and spreadsheet familiarity necessary.

GIS 102 Geographic Information Systems II (5)
Continuation of GIS 101. GIS application in natural resource management. Includes data creation by digitizing, coordinating management, map projections and map aesthetics using ArcGIS software. Prerequisite: GIS 101.

GIS 105 Introduction to Global Positioning Systems (GPS) (2)
Introduction to global positioning systems (GPS) and their use in natural resources and agriculture.

GIS 106 Advanced Global Positioning Systems (2)
Continuation of GIS 105. Global Positioning Systems (GPS) data management. Integration of GPS data into mapping software and displaying with Google Earth and ArcGIS. Prerequisite: GIS 105 or concurrent enrollment, or department chair approval.

GIS 202 Introduction to Remote Sensing (5)
Principles and conceptual overview of remote sensing instruments and how data and images are used to monitor and evaluate the condition and distribution of the earth's surface features. Prerequisite: GIS 101.

GIS 203 Advanced GIS Project (5)
Using ArcGIS, create individual GIS projects from inter-tidal marine habitat data or other pre-approved data sets. Covers formulating a research question for analysis, conducting background research, map development and layout, and presenting the results in a research paper. Prerequisite: GIS 102.

UNIVERSITY OF WASHINGTON

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1935
GRADUATE PROGRAM FOUNDED: 1935
DEGREES OFFERED: B.A., M.A., M.GIS, Ph.D.
GRANTED 10/1/14-9/1/15: 98 Bachelors, 21 Masters (5 in-residence MA, 16 online M.GIS), 4 Ph.D.
STUDENTS IN RESIDENCE: 211 Majors, 39 Masters (9 MA, 30 M.GIS), 28 Ph.D.
NOT IN RESIDENCE: 2 MA, 5 Ph.D.
CHAIR: Lucy Jarosz
DEPARTMENT ADMINISTRATOR: Sharon Frucci

FOR FURTHER INFORMATION CONTACT: James Baginski, Director of Academic Services, 415 B Smith Hall, Department of Geography, Box 353550, University of Washington, Seattle, Washington 98195. Telephone (206) 543-3246. Fax (206) 543-3313. Email jbag@uw.edu. Comprehensive information on the department is available at: https://geography.washington.edu/. Information about our Professional Master's Program in Geographic information Systems and Sustainability Management is available through the website, http://www.gisonline.uw.edu/

PROGRAMS AND RESEARCH FACILITIES:
Undergraduate Studies: The undergraduate instructional program in Geography is organized around the faculty's research specialties and teaching expertise in areas ranging from urban and regional studies to global studies (see the Graduate section, below). However, students are encouraged to formulate their own field of specialization. Students are required to obtain a minimum of 60 credits in geography, out of the total university graduation requirements of 180 credits. The requirements include courses in research methods and research design and are structured through thematic concentrations in Cities, Citizenship & Migration, Environment, Economy & Sustainability, GIS, Mapping and Society and Globalization, Health & Development. An internship outside the University and the writing of a senior essay are encouraged. Students must maintain an overall GPA of 2.0 and a cumulative 2.5 (and a 2.0 in individual courses) for coursework taken to fulfill requirements for their major in geography. The department also offers an Honors Program for students who are invited to join on the basis of their past academic performance and future potential.

***Graduate Studies*:** We offer both an MA and PhD in Geography, as well as Master of Geographic Information Systems for Sustainability Management. www.gisonline.uw.edu/. Our MA and PhD programs are fashioned at the intersection of several broad research specializations. Following the work of the faculty, graduate students are encouraged to think outside the box of any particular 'adjectival' subfield of human geography. Nevertheless, our programs draw on expertise in the following key areas:

Critical Development and Global Health: Integrated program of study addressing political-economic, social, environmental, and global health dimensions of development in both urban and rural realms. Students may specialize in the Americas, Africa, China, South Asia, or on the challenges facing poor communities in rich countries. Students study theoretical perspectives and case study materials addressing the ways in which political, economic and social processes relate to the geographical dynamics shaping social inequality, development and health, including the intersections of these processes with gender, sexuality, ethnic and race relations, and class structures. They also examine the health effects and environmental consequences of development, and the developmental experiences of inequality, dispossession and exploitation that account for poor health outcomes.

Economic Geography: Particular concentrations include: globalization, neoliberalism, regional economic development and underdevelopment, with an emphasis on North America, Latin America, East Asia; cross-border regionalism; location theory; labor markets; labor migration (including migrant worker mistreatment and rights); resource distribution; technological change; the relationship between geoeconomics and geopolitics; and the economic lessons of the global justice movement.

Geographic Information Systems: Concepts, techniques and software/hardware tools involved in computer-assisted cartography and geographic information system design, use and social meaning. Particular emphasis is on participatory and critical GIS, analytical methods and their use in practical circumstances, including recent innovations in Web 2.0 and neo-geo mapping online. Research may include analytical cartography, geographic information representation, map error analysis, social construction of GIS technology, spatial database design, data management approaches and systems configurations, urban applications, geographic knowledge structures, transportation, environmental analysis, natural resources, user cognition and user interface design, sustainability science, spatial model coupling to GIS, and collaborative spatial decision making.

Society and Environment: Examination, analysis and interpretation of the complex inter-relationships between social dynamics and environments. The areas of focus include cultural and political ecology, health and the environment, global environmental modeling and GIS methods and applications. Research themes primarily involve questions of scale in analyzing social and environmental change at the local, regional, and global levels, and on analyzing, understanding and explaining the interactions among ecological processes, environmental transformation, and social processes and transformations in affluent and impoverished societies. Related aspects of medical geography include such topics as the ties between global environmental change and the (re)emergence and spread of contagious disease, as well as how political, social, environmental, and biological factors come together to both create and structure health vulnerability and risk management.

Urban, Social and Political Geography: Emphasis is on both the theory and empirical investigation of the geography of power, the biopolitics and governance of population and movement, both in terms of global relations and local patterns of policing and social activism.

Particular emphasis is given to the relation of social, political and economic structure to spatial organization and social justice, and on issues of race, gender, sexuality, ethnicity, inequality, health and disease, policing, power and social justice as they have been theorized in critical social theories. Attention is also paid to how political-economic geographies combine in relations of dominance, governance and resistance at a range of scales, from the urban to the regional to the transnational.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Quarter system. The University of Washington admits undergraduate students on the basis of scholastic standing, admission test scores, and adequacy of preparation for University study while in high school or another collegiate institution. Neither the College of Arts and Sciences nor the Department of Geography have separate admissions requirements, but both have graduation requirements. (Please request further information from the Office of Admissions, Box 351280, University of Washington, Seattle, Washington 98195).

Graduate: Quarter system. The departmental curriculum is flexible, and programs of study are individually arranged to suit the needs of the students. The Geography M.A. is a two-year program culminating in the writing and defense of an MA thesis. The Geography Ph.D. is a 4-6 year program in which students develop a high level of expertise of one or more specific areas within this discipline. The Ph.D. culminates in the writing and defense of a doctoral dissertation. Admission to the graduate program is competitive and requires a minimum grade point average of B (3.0 on a 4.0 scale) with average incoming GPAs usually much higher. Applicants must take the GRE. Priority admission submission deadline: December 15. Information on the graduate program may be obtained by accessing our web site: https://geography.washington.edu/graduate-admissions

Note: The MGIS for Sustainability Management is administered through Professional and Continuing Education, and has a separate, stand-alone admission process:
http://www.gisonline.uw.edu/admissions/

FACULTY:

Luke Bergmann, Ph.D. 2012, Minnesota, Assistant Professor—Nature-Society relations; political economy; globalization; complexity; critical GIS and geovisualization; China.

Christine Biermann, Ph.D. 2014, Ohio State University, Assistant Professor—political ecology, biodiversity conservation, nature and race, critical physical geography

Michael Brown, Ph.D., British Columbia, 1994, Professor—urban, political and health geography, sexuality, urban politics, political theory.

Kam Wing Chan, Ph.D., Toronto, 1988, Professor—China, urbanization, migration, labor, development, and the *hukou* system

Mark Ellis, Ph.D., Indiana, 1988, Professor—immigration, internal migration, race and ethnicity, labor markets

Sarah Elwood, Ph.D. Minnesota, 2000, Associate Professor—relational poverty, visuality, critical geographies of technology, mixed methods

Kim England, Ph.D., Ohio State, 1988, Professor—urban, social, political and feminist geographies, work and employment, care work, the home, critical social policy, social and feminist theories

Steve Herbert, Ph.D., UCLA, 1995, Professor—political geography, law and law enforcement, environmental regulation, qualitative methods

Lucy Jarosz, Ph.D., UC, Berkeley, 1990, Professor and Chair—political ecology of agriculture; critical food studies; hunger and poverty; post-colonial, and feminist theory, qualitative methodology, North America

Victoria A. Lawson, Ph.D., Ohio State, 1986, Professor—critical development studies, relational poverty studies, the Americas, Marxist, feminist and post-colonial theory

Jonathan D. Mayer, Ph.D., Michigan, 1977, Professor, Dept. of Epidemiology; Adjunct Professor, Dept. of Medicine, Division of Infectious Diseases; Dept. of Family Medicine, Dept of Health Services; Clinical Faculty, Travel/Tropical Medicine, UW Medical Center; International Health Program, Co-Director, Undergraduate Program in Public Health—global health; medical geography (infectious diseases and society, disease ecology; health care delivery), HIV, especially in sub Saharan Africa; HIV, gender and poverty; health policy; "slum health" in Africa; infectious disease epidemiology; genetic and molecular epidemiology; cardiovascular epidemiology; social determinants of health and social epidemiology; tropical medicine and clinical applications of medical geography; public health and global health in the undergraduate curriculum

Katharyne Mitchell, Ph.D., UC, Berkeley, 1993, Professor—urban, comparative studies of migration, education and philosophies of immigrant education, social theory, Europe and Pacific Rim

Timothy L. Nyerges, Ph.D., Ohio State, 1980, Professor—geographic information systems, spatial decision support systems and group decision making, transportation and environmental analysis using GIS, GIS and coastal resource management, human-computer interaction and spatial cognition

Matthew Sparke, Ph.D., British Columbia, 1996, Professor, Jackson School of International Studies, Adjunct Professor, Global Health—globalization, global health, political and economic geography, social theory including post-colonial, Marxist, feminist and anti-racist theory

Suzanne Davies Withers, Ph.D., UCLA, 1992, Associate Professor—population geography and spatial demography, longitudinal and quantitative methods, residential mobility & migration, urban housing, and property rights.

Megan Ybarra, Ph.D. UC, Berkeley, 2010, Assistant Professor—nature-society relations; postcolonial theory; political ecology; transnational migrations; Latin America.

EMERITI FACULTY:

William B. Beyers, Ph.D., Washington, 1967, Professor Emeritus—regional science, economic geography, geography of producer services, regional analysis, geography of the Pacific Northwest

Richard L. Morrill, Ph.D., Washington, 1959, Professor Emeritus—spatial organization, migration, diffusion and population, regional planning and development, inequality

Craig ZumBrunnen, Ph.D., UC, Berkeley, 1973, Professor, Emeritus—Russian, East European and Central Asia Studies Program, and Middle East Studies Program, Jackson School of International Studies and core faculty Urban Ecology

AFFILIATED AND ADJUNCT FACULTY:

Sunil Aggarwal, Affiliate Assistant Professor (also Palliative Medicine Physician and Associate Hospice Medical Director, MultiCare Auburn Medical Center, Auburn, Washington)—Pain Medicine, Hospice and Palliative Care Medicine, Rehabilitation Medicine, Cannabinoid Integrative Medicine: Geography of Access, Delivery, and Development Psychoactive Biotic Therapeutic Landscapes, Enclosures, and Seed Sovereignty, Social Medicine, Health and Human Rights

Christian Anderson, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell)—how everyday practices intersect with broader political-economic and cultural processes such as globalization and gentrification in cities, inequality, structural violence, social justice

Kathleen Braden, Affiliate Professor (also Department of Geography, Seattle Pacific University)—Russian studies, resources and technology

Richard Conway, Affiliate Associate Professor—regional economic modeling

Matthew D. Dunbar, Affiliate Assistant Professor (also Assistant Director and GIS Program Manger Center for Studies in Demography and Ecology, University of Washington)—GIS, mobile data collection (phone devices with GPS), mapping/cartography, geocoding/address-matching, spatial database creation, archiving, and management, spatial data acquisition, spatial statistics

Maria Elena Garcia, Adjunct Associate Professor (also Associate Professor and Director, Comparative History of Ideas)—Indigenous politics and multicultural activism in Peru, indigeneity and interspecies politics in the Andes, the cultural politics of contemporary Peru in relation to food, Indigeneity and violence.

Gabriel E. Gallardo, Affiliate Associate Professor (also Interim Vice President for Minority Affairs & Vice Provost for Diversity, University of Washington)—Geography of Race and Ethnicity, Ethnic Entrepreneurship, Chicano/Latino Settlement in the United States, Immigration and Diasporas, and Social Justice, Latin America, the Pacific Rim, and the Pacific Northwest, Minority Student Access to Graduate Education, Undergraduate and Graduate Student Retention Strategies, and Inclusive Excellence

Ben Gardner, Affilliate Associate Professor (also University of Washington, Bothell)—the cultural politics of the environment, political economy of development, the post-colonial state, Africa

Michael Goodchild, Affiliate Professor (also Professor Emeritus and Research Professor, University of California Santa Barbara)—geographic information science, spatial analysis, and uncertainty in geographic data

Joseph Hannah, Affiliate Assistant Professor (also Academic Counselor, Integrated Social Sciences Program, University of Washington)—Political Geography, Critical Geopolitics, Critical Development Studies, Global Food Systems, Globalization, Critical Cartography, Global Health mapping, Geographic Information Systems (GIS), State-society relations and civil society formation in the Global South, Social Justice, Southeast Asia Studies, Vietnam Studies

Jin-Kyu Jung, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell)—qualitative GIS and qualitative geovisualization, urban geography, race, class and gender in power relations in cities, mixed methods research approaches

Lawrence M. Knopp, Adjunct Professor (also, Interdisciplinary Arts and Sciences, University of Washington, Tacoma)—sexuality and space; feminisms; political and cultural geographies; urban and rural regional studies

Santiago Lopez, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell)—GIS, social theory, nature-society relations, Latin America

Jose Antonio Lucero, Adjunct Associate Professor (also Associate Professor, Henry M. Jackson School of International Studies and Chair, Latin American and Caribbean Studies)—Indigenous politics, borderlands, social movements, comparative politics, Latin American Politics, Politics of Race and Ethnicity, Development, Political and Social Theory

L. Monika Moskal, Adjunct Associate Professor (also Acting Associate Director of the School of Environmental and Forest Sciences, Associate Professor, Remote Sensing and Geospatial Analysis Laboratory (RSGAL), College of the Environment, University of Washington)—GIS, Forestry, Remote Sensing, Environmental Conservation

Britta Ricker, Adjunct Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma)—health geographies, GIScience, mobile technologies for spatial data collection

James Thatcher, Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma)—GIScience, software studies, political ecology, and urban studies

WESTERN WASHINGTON UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL STUDIES – GEOGRAPHY PROGRAM
DATE FOUNDED: 1952
GRADUATE PROGRAM FOUNDED: 1964
DEGREES OFFERED: B.A. in Geography, M.A. in Environmental Studies, optional Geography emphasis
MAJORS: 51
CHAIR: Gigi Berardi
ADMINISTRATIVE MANAGER: Diane Knutson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Environmental Studies, Centralized Student Services, 516 High Street – ES 534. Western Washington University, MS-9079, Bellingham, Washington 98225-9085.
Undergraduate Advising Telephone (360) 650-2817.
Graduate Advising Telephone (360) 650-3646. Fax (360) 650-2842.
Department Telephone (360) 650-3277. Fax (360) 650-7702
Internet: https://huxley.wwu.edu/environmental-studies

PROGRAMS:

UNDERGRADUATE: The Geography B.A. program is primarily an upper division major. Students spend their first two years completing General University Requirements, and Huxley College of the Environment core courses. Geography majors then take a common set of core classes that provide background skills and concepts, and choose their specialization through selection of elective courses.

GRADUATE: Graduate students have the option of focusing the M.A. Environmental Studies degree upon geographical theories, methods, and topics. Following a series of two common core courses, students in this program collaborate closely with a faculty advisor to shape an appropriate program of study.

CURRENT FACULTY AND STAFF:

Troy Abel, Ph.D., George Mason University, 1998, Associate Professor — environmental policy, civic environmentalism, environmental justice, globalization and the environment

Andrew J. Bach, Ph.D., Arizona State, 1995, Associate Professor — physical and environmental geography, glacial and soils geomorphology, climate change and quaternary history, geoarcheology.

Gigi Berardi, Ph.D., Cornell, 1979, Professor — cultural geography, environmental history, tribal and natural resources management, Alaska

Patrick H. Buckley, Ph.D., Boston, 1988, Professor — quality of life in a global economy, environmental entrepreneurship, cross border regions, quantitative and optimization techniques, Delphi modeling, regional focus: Japan, Canada, and Pacific Rim

Kate Darby, Ph.D., Arizona State University, 2010, Assistant Professor – environmental justice, urban ecology, global food policy, technology and society

Aquila Flower, Ph.D., University of Oregon, 2013, Assistant Professor — climatic variability, human land use patterns, natural disturbances in shaping forest ecosystem dynamics

Stefan Freelan, M.S., Western Washington University, 2003, GIS Specialist

Nabil Kamel, Ph.D., University of California, Los Angeles, 2004, Assistant Professor — social and environmental justice, post-disaster recovery, political economy of urbanization, sustainable development, critical urban theory, housing and poverty, physical planning, urban design, regional and international development

Tamara Laninga, Ph.D., University of Colorado, 2005, Assistant Professor — urban land use planning and policy, U.S. and state

environmental policies and regulations, renewable energy, collaborative decision-making, innovative public involvement strategies, sustainable development, and growth management.

Michael J. Medler, Ph.D., University of Arizona, 1997, Associate Professor — GIS and remote sensing, landscape ecology, biogeography, natural resources management and policy

Jean O. Melious, J.D., Harvard, 1984 Professor — environmental policy and environmental law

John C. Miles, Ph.D., Union Institute, 1979, Professor Emeritus — environmental education and history, outdoor education

Debnath Mookherjee, Ph.D., Florida, 1961, Professor Emeritus — comparative urbanization, regional development and planning, South Asia

O. Eugene Myers, Ph.D., University of Chicago 1995, Professor — human ecology, human development, environmental education

Mark Neff, Ph.D., Arizona State University 2009 Assistant Professor — science/policy interface, environmental science and decision-making, science policy, technology and the environment, qualitative and quantitative research methods, science and environmental conflicts, political ecology, science and technology studies, science and culture, medicine, technology and health

Paci-Green, Rebekah, Ph.D., Cornell University Assistant Professor — how risk perception shapes social vulnerability and unsafe built environments, comprehensive school safety to natural hazard risks, vulnerable populations, disaster risk reduction, community-defined resilience, and media coverage of science and the media-science interface.

David A. Rossiter, Ph.D., York University, 2005, Associate Professor — Cultural-historical geography, political ecology, Canada

Nick Stanger, Ph.D., University of Victoria B.C. Canada 2014 Assistant Professor — environmental psychology, human-environment connections, climate change behaviour, environmental education, complexity theory, resiliency in human and ecological systems, indigenous world views, mindfulness and ecology, sense of place, and behavioural change within a global citizenship context.

Paul Stangl, Ph.D., University of Texas at Austin, 2001, Associate Professor — Urban, political, cultural, and European geography

Thomas A. Terich, Ph.D., Oregon State, 1973, Professor Emeritus — physical geography, coastal management, natural hazards

Wendy Walker, M.S., Florida State, 1976, Senior Instructor — education, interpretation, curriculum

Grace Wang, Ph.D., University of Minnesota 1997, Associate Professor — natural resource policy, multicultural perspectives, resource management

Nicholas Zaferatos, Ph.D., Washington, 1996, Professor — environmental planning, tribal planning

WEST VIRGINIA

CONCORD UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1955
DEGREES OFFERED: B.A. Geography
GRANTED 9/1/14-8/31/15: 16 Bachelors
MAJORS: 40
CHAIR: Joseph T. Manzo
DEPARTMENT ADMINISTRATIVE ASST: Pam Wallace

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Tom Saladyga, Department of Geography, Concord University, Athens, West Virginia 24712-1000. Telephone (304) 284-6040.
Fax (304) 384-6091. Email: saladygat@concord.edu.
Internet: http://hub.concord.edu/geography/

PROGRAMS AND RESEARCH FACILITIES:
Concord University is a state supported institution of higher education with an enrollment of just over 2,800 students. Concord offers the Bachelors of Arts degree in Geography. Students completing the B.A. in Geography may supplement their degree with an Area of Emphasis in Cartography and GIS or an Area of Emphasis in Pre-Environmental Law. In addition to classroom coursework, students are provided with opportunities to complete professional internships, conduct independent research projects, and attend academic conferences. The Department operates the Environmental Geography Lab (www.saladyga-egl.com) and the R.T. Hill Spatial Analysis Laboratory which is equipped with digital hardware and software for teaching and research across the discipline. Concord is the host institution for the West Virginia Geographic Alliance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Concord University operates under the semester system, with two five-week summer terms. Basic admission criteria require students to have an overall high school grade point average of at least 2.00 or better. Students must take either the ACT or SAT to complete admission consideration requirements. Grants, loans, part-time employment and scholarships are available for eligible students. April 15 is the deadline for priority consideration.

FACULTY:

Joseph T. Manzo, Ph.D., Kansas, 1978 — Cultural/Historical Geography, Geography Education

Tom Saladyga, Ph.D., West Virginia University, 2011 — Biogeography, Climatology, Dendrochronology

Shimantini Shome, Ph.D., Kansas, 2011 — Africa, Human Geography, Urban

ADJUNCT FACULTY:

Sherri Mitchem, M.Ed., 2011, Concord University

Linda Poff, M.A., Salem International University, 1999; M.Ed., Concord University, 2004 — Cultural/Historical, Physical

Todd Sink, Ph.D., Indiana State University, 2011 — Economic Geography, Geographic Information Systems

MARSHALL UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1911
GRADUATE PROGRAM FOUNDED: 1948
DEGREES OFFERED: B.A., B.S., M.A., AND M.S.
GEOGRAPHY CHAIR: Joshua Hagen
DEPT. ADMIN. SECRETARY SENIOR: Dana Phillips

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Joshua Hagen - Chair, Department of Geography, Marshall University, One John Marshall Drive, Huntington, WV 25755.
Telephone: (304) 696-2505.
Email: hagenj@marshall.edu or geography@marshall.edu.
Internet: www.marshall.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:
The Department of Geography offers two degree tracks for both undergraduate and graduate students. Students who choose the B.S. and M.S. tracks focus on a science-based curriculum involving physical geography, GIS, and environmental science. Students who enroll in the B.A. and M.A. tracks concentrate on a sequence of courses in human geography, physical geography, GIS, and environmental science. The programs are flexible and accommodate a broad spectrum of geographic study while permitting considerable specialization, even at the undergraduate level.

The Department of Geography offers access to modern technology as well as traditional practices in the discipline. The department hosts well-equipped classrooms, a Physical Geography Laboratory, and a GIS Laboratory with state-of-the-art facilities.

Field work and real-world experience form an integral element of Geographic education at Marshall University. Student preparation for further academic study or entry into the job market includes participation in field research, internships, or contract employment. Marshall University's students benefit from Huntington's relative location in the Ohio Valley near major urban and industrial development and amidst some of the Earth's most varied physical and culture geography. Graduates of the Department of Geography include urban and regional planners, GIS analysts, environmental specialists, tourism professionals, teachers, and economic development advisors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Marshall University operates on the semester system and offers three five-week summer sessions. Graduate students may qualify for departmental Teaching Assistantships that include stipends and tuition waivers. For undergraduate students, Internships and Independent Study options are available. Graduate, as well as undergraduate, students may participate in faculty research projects.

FACULTY:
Godwin Djietror, Ph.D., McMaster University, 2003 — Economic and Medical Geography
Joshua Hagen, Ph.D., University of Wisconsin-Madison, 2003 — Political Geography, Geography of Europe
Kevin Law, Ph.D., The Ohio State University, 2006 — Atmospheric Science
James M Leonard, Ph.D., University of Cincinnati, 2001 — Economic/Industrial Geography, GIS, Historical Geography
Anita Walz, Ph.D., University of Maryland, 2002 — Environmental Studies, GIS

WEST VIRGINIA UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY
DATE FOUNDED: 1877
DEGREES OFFERED: B.A., M.A., Ph.D.
GEOGRAPHY CHAIR: Brent McCusker
DEPT. ADMIN. SECRETARY SENIOR: Donna Titus

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Brent McCusker, Associate Chair for Geography, 98 Beechurst Ave, Room 330, West Virginia University, Morgantown, WV 26506.
Telephone: (304) 293-4025. Fax: (304) 293-6522.
E-Mail: brent.mccusker@mail.wvu.edu.
Web: http://geography.wvu.edu.

PROGRAMS AND RESEARCH FACILITIES:
The Geography Program within the Department of Geology and Geography offers degrees undergraduate and graduate students. At the undergraduate level, the program offers a B.A. with concentrations in Globalization and Development, Geographic Information Science (GISci), and Natural Resources and Environment. Certificates of specialization are available for Globalization and Development and GISci. At the graduate level, the program offers two advanced degrees: the Master of Arts in Geography and the Doctor of Philosophy in Geography. The Program has three major research focus areas: Environmental Geography, Human and Human-Environment Geography, and Geographic Information Science. The program is supported by 18 tenure track faculty, one Teaching Assistant Professor, one Professor Post-Doctoral Fellow/Clinical Professor Fellow, and several active Professor Emeriti. Being part of the Department of Geology and Geography, students can also draw upon the expertise of an equally well resourced and attentive 17 Geology faculty with expertise not only in deep geology but also in geomorphology, surficial processes, Karst landscapes, and hydrology.

The Department has excellent facilities in a recently renovated Brooks Hall on WVU's Downtown Campus. Students have access to five teaching computer laboratories with over 125 machines. Support is provided for the most geographic software. In addition, graduate students have access to their major advisor's research lab. Each faculty member in geography has his or her own 650ft. research lab to facilitate the university's strong emphasis on research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
West Virginia University has a traditional two-semester system with flexible summer session courses. At the undergraduate level, the program includes on-line courses in addition to in-theatre lectures. The program offers a variety of small, merit-based fellowships for undergraduates and teaching and research assistantships for M.A. and Ph.D. students. More information on admission requirements, courses, and faculty research can be found on the program web page.

FACULTY:
Martina Caretta, Ph.D., Stockholm University — gender, water, landscape, feminist methodologies.
Jamison Conley, Ph.D., Pennsylvania State — geographic information science, geocomputation, medical geography
Karen Culcasi, Ph.D., Syracuse — geopolitics, Middle-East, critical cartography
Cynthia Gorman, Ph.D., Rutgers — gender, migration, legal regimes and international human rights campaigns
Jonathan Hall, Ph.D., Ohio State — human impacts on species abundance and persistence
Trevor Harris, Ph.D., Hull, England — GIS, GIS and society, geo-archaeology, environmental impact assessment, historical geography
Amy E. Hessl, Ph.D., Arizona — biogeography, forest ecosystems, dendrochronology
Insu Hong, Ph.D., Arizona State — Geographic Information Science (GISci) and spatial optimization
Randall Jackson, Ph.D., Illinois-Urbana — regional science and economic geography
Steven Kite, Ph.D., Wisconsin — geomorphology quaternary stratigraphy, glacial and fluvial geomorphology, geoarcheology, environmental management
Eungul Lee, Ph.D., Colorado — biosphere and atmosphere interactions
Aaron Maxwell, Ph.D., West Virginia — geospatial education, spatial modeling, machine learning, image analysis
Brent McCusker, Ph.D., Michigan State — land use and livelihoods, vulnerability, Africa
Brenden McNeil, Ph.D., Syracuse — GIS, remote sensing, ecosystem ecology
Maria Perez, Ph.D., Michigan — speleology, national geographies, identities, Americas
Jamie Shinn, Ph.D., Pennsylvania State — political ecology, vulnerability studies, climate change adaptation, Africa
Tim Warner, Ph.D., Purdue — remote sensing
Bradley Wilson, Ph.D., Rutgers — human geography, resource conflict, social movements

WISCONSIN

UNIVERSITY OF WISCONSIN, EAU CLAIRE

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY
DATE FOUNDED: 1947
DEGREES OFFERED: B.A., B.S.
GRANTED 9/15-5/16: 37 Bachelors
MAJORS: 142
CHAIR: Paul Kaldjian
DEPARTMENT ADMINISTRATIVE ASST: Yvonne Plomedahl
GEOSPATIAL TECHNOLOGY FACILITATOR: Martin Goettl

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Paul Kaldjian, Chair, Department of Geography and Anthropology, University of Wisconsin-Eau Claire, Eau Claire, Wisconsin 54702-4004.
Telephone (715) 836-3244 Fax (715) 836-6027.
E-mail: kaldjian@uwec.edu. Internet: www.uwec.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-Eau Claire is the largest undergraduate campus in the state with 10,900 students and 796 faculty and academic staff. The Department of Geography and Anthropology offers a geography liberal arts major, requiring a minimum of 36 credits in geography, and three comprehensive geography majors (environmental, transnational, and geospatial analysis and technology), and a geospatial certificate program. Geography majors are encouraged to earn credits through community internships, participate in field experiences, and to take advantage of opportunities for collaborative research with faculty. The department teaches anthropology courses and actively affiliates with a wide range of units and programs across campus, including Women's Studies, American Indian Studies, Latin American Studies, Hmong Studies, Sustainability, the Watershed Institute, and the Council for Internationalization and Global Engagement. Facilities include cartography, GIS, remote sensing, and spatial analysis labs equipped with 60 high-end desktop computers. The department is fully networked and has a full suite of ESRI GIS products. UWEC Blugold funding allows our majors and minors to do summer research projects with faculty, present research at regional and national meetings, and enables students to participate in field seminars and international study programs. The department's generous endowment (the Simpson fund) provides additional support for programming, professional development, research, high-impact practices and student engagement. The department has 142 majors, 15 minors, and graduates about 30 majors annually.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Contact the Office of Admissions for application forms and the Financial Aid Office for information on financial aid. Most geography majors are eligible for financial aid and work in the department's laboratories and with individual faculty members on research projects.

FULL AND PART-TIME FACULTY:
Ari Anand, Ph.D., Arizona, 2008, Associate Professor—cultural anthropology, language in culture and society, religion, social theory
Jeff DeGrave, Ph.D., University of Minnesota, Lecturer—human, Latin America, Russia and Eastern Europe
Douglas Faulkner, Ph.D., Wisconsin, 1994, Professor—environmental, physical, geomorphology, fluvial
Sean Hartnett, Ph.D., Wisconsin, 1989, Professor—cartography, computer graphics, historical
Christina Hupy, Ph.D., Michigan State, 2006, Associate Professor—biogeography, GIS, remote sensing
Joseph Hupy, Ph.D., Michigan State, 2005, Associate Professor—physical, military geography, human-environment, UAS
Harry Jol, Ph.D., University of Calgary, 1993, Professor—geomorphology, physical, geoarchaeology, ground penetrating radar, coastal
Paul Kaldjian, Ph.D., Arizona, 2000, Professor—human, food, Middle East and North Africa
Garry Running, Ph.D., Wisconsin, 1997, Professor—geomorphology, soils, physical, environmental
Daniel Strouthes, Ph.D., Yale, 1994, Assistant Professor—cultural anthropology, North American Indians, anthropology law
Ingolf Vogeler, Ph.D., Minnesota, 1972, Professor—rural, underdevelopment, United States, Third World
Ryan Weichelt, Ph.D., Nebraska, 2008, Associate Professor—human, quantitative methods, urban, economic, political, conservation
Cyril Wilson, Ph.D., Indiana State, 2011, Assistant Professor—human-environment, agent-based modeling, geospatial hydrology, remote sensing, land use and land cover dynamics, GIS, LiDAR
Ezra Zeitler, Ph.D., Nebraska, 2008, Associate Professor—human, North America, Wisconsin, indigenous, race and ethnicity, tourism, geographic education, cartography

UNIVERSITY OF WISCONSIN, LA CROSSE

DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCE
DATE FOUNDED: 1909
DEGREES OFFERED: B.A., B.S. in Geography (Concentrations in GIS and Environmental Science). Minors in Geography, Earth Science, Geoarchaeology, and GIS
GRANTED 8/1/14-5/31/15: 28 Bachelors
MAJORS: 75
CHAIR: Cynthia Berlin
DEPARTMENT ADMINISTRATIVE ASSISTANT: Karen Ott

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography and Earth Science, UW-La Crosse, La Crosse, Wisconsin 54601. Telephone (608) 785-8333,
Fax (608) 785-8332. Email: geoearth@uwlax.edu
Website: http://www.uwlax.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Earth Science at the University of Wisconsin – La Crosse is dedicated to advancing the academic knowledge of students through teaching and scholarship within established paradigms of cultural and physical geography, and through the acquisition of techniques for studying local, regional and global geographic phenomena. The department is dedicated to the integration of technology into the full scope of the curriculum, to providing hands-on student-oriented learning and to giving each student meaningful research and field experiences. The department provides its students with the intellectual foundation and acquisition of skills for success in both post-graduation employment and graduate study. It has well-equipped physical geography laboratories, a paleoenvironment laboratory, a field methods laboratory and a soils laboratory. Two GIS laboratories provide space, equipment, and a broad range of software

programs for instruction in cartography, remote sensing, GIS, and field methods. Our internship program places students with various local, state, and federal government agencies which include the National Weather Service, the Mississippi River Regional Planning Commission, and the USGS Upper Midwest Environmental Science Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. An application for admission and financial aid information may be obtained on-line at www.uwlax.edu or by writing to the Admissions Office or Financial Aid Office, University of Wisconsin – La Crosse, 1725 State Street, La Crosse, Wisconsin 54601.

FACULTY:

*Colin Belby, Ph.D., University of Wisconsin-Madison, 2009, Associate Professor—W*ater Resources, Fluvial Geomorphology, Natural Hazards

Cynthia Berlin, Ph.D., Indiana State University, 1998, Professor—Remote Sensing, Conservation, Wetland Ecology, Climate

Joan Bunbury, Ph.D., University of Ottawa, 2009, Assistant Professor—Paleoclimatology, Biogeography, and Freshwater Environments

Gargi Chaudhuri, Ph.D., University of California-Santa Barbara, 2011, Assistant Professor—GIS, Land Use/Cover Change, Transportation

Georges Cravins, Ph.D., Clark University, 1988, Professor—Global Strategic Study, Economic Development and Geography, World Cultures, Populations

John Kelly, Ph.D., University of Kansas, 2013, Assistant Professor—Participatory Mapping, Indigenous Territoriality, Latin America, Cartography, GIS

Jeff Kueny, ABD, University of Wisconsin-Milwaukee, 2001, Instructional Academic Staff—Karst Geomorphology, Conservation

Niti Mishra, Ph.D., University of Texas at Austin, 2014, Assistant Professor—GIS, Cartography, Geovisualization, Remote Sensing

Paul Reyerson, Ph.D., University of Wisconsin-Madison, 2012, Assistant Professor—Geomorphology, Soil Science

Daniel Sambu, Ph.D., University of Oklahoma, 2011, Assistant Professor—Geographic Education, Global Environments, Water Resources

EMERITUS:

Rafique Ahmed, Ph.D., Ohio State, 1985, Professor—Climate, South Asia, Conservation, Environments

Mehmet Aritan, Ph.D., Kentucky, 1983, Assistant Professor Emeritus

Gregory Chu, Ph.D., Hawaii, 1986, Professor Emeritus

John Hoefer, M.S., Wisconsin, 1959, Assistant Professor Emeritus

Virgil Holder, Ph.D., Minnesota, 1976, Professor Emeritus

Paul Stoelting, Ph.D., UW-Milwaukee, 1978, Associate Professor Emeritus

Dean Wilder, Ph.D., Colorado, 1977, Professor Emeritus

Robert Wingate, Ph.D., Minnesota, 1975, Professor Emeritus

UNIVERSITY OF WISCONSIN, MADISON

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1928
GRADUATE PROGRAM FOUNDED: 1928
DEGREES OFFERED: B.A., B.S., M.S. (Geography, Cartography & Geographic Information Systems), Professional M.S. (GIS & Webmap Programming – Online), Ph.D. (Geography), Capstone Certificate in GIS
GRANTED 09/01/2014 - 08/31/2015: 45 Bachelors, 7 Masters, 5 Ph.D.s, 24 Certificates
STUDENTS IN RESIDENCE: 114 Majors, 15 Masters, 42 Ph.D.s, 26 Certificates
NOT IN RESIDENCE: 11 Ph.D.s
CHAIR: Prof. Lisa Naughton
DEPARTMENT ADMINISTRATOR: Jacqueline Wild

FOR FURTHER INFORMATION WRITE TO: Graduate Program Director, Department of Geography, 160 Science Hall, The University of Wisconsin, 550 N. Park St., Madison, Wisconsin 53706-1491. Telephone (608) 262-2138 (Department), (608) 262-3861 (Graduate Office). Fax (608) 265-3991.
E-mail: gradschool@geography.wisc.edu.
Internet: www.geography.wisc.edu/.

PROGRAMS AND RESEARCH FACILTIES: The Department of Geography offers a full range of baccalaureate and graduate degrees. At the graduate level, the Department offers Master's Degrees in geography and in cartography/GIS, the Ph.D. in geography and a one-year professional certificate degree in GIS. There is also an online professional Master's degree in GIS Development. The research and teaching interests of the faculty cover all major areas of geographic study, including geographic thought and theory, historical, cultural, urban-economic, political, global and regional studies, political economy, cultural ecology, environmental history, conservation, soils, geomorphology, biogeography, climatology, water resources, cartography, geovisualization, remote sensing and geographic information systems. Our graduate degree programs are built around a relatively small amount of required coursework so as to allow students flexibility in designing programs that meet their particular interests. The department encourages interdisciplinary work. It plays an active role in the university's area study programs, such as African Studies, Asian Studies, Southeast Asian Studies, European Studies, Russian, East European and Central Asian Studies, and Ibero-American studies, as well as in interdisciplinary programs like Urban and Regional Planning and Landscape Architecture, Environmental Studies, Water Resources, International Studies, and an informal program in Quaternary Studies.

Located in historic Science Hall beside Lake Mendota on the beautiful University of Wisconsin-Madison campus, the Department of Geography offers an unusual variety of facilities for graduate study and research. Also, conveniently within the department we have the Geography Library which holds over 70,000 volumes and electronic resources and the Arthur H. Robinson Map Library. The Department is home to a large Cartographic Laboratory, the Wisconsin State Cartographer's Office, and maintains Soils and Geomorphology Laboratories and a wide variety of field equipment to support the program in physical geography. A fully equipped Computer Laboratory is available for student work in quantitative analyses, advanced graphics and geographic information systems. A Computer Instructional Facility provides a state of the art learning environment for its courses in quantitative methods, cartography, and GIS. The multi-volume and award winning History of Cartography Project is also housed in Science Hall. A collegial atmosphere in which students

work closely with faculty and peers is encouraged, yet, we simultaneously value the initiative of independent scholarship. An important part of departmental life occurs on Friday afternoons, when the entire department gathers to attend invited lectures delivered by visiting scholars, as well as by colleagues from within the department and the university. The Department also actively promotes the professional development of its students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester plan. The department offers both B.A. and B.S. degrees in geography, and in cartography and GIS. The geography degrees require a specialization in one of the following areas: physical, people-environment interaction, human, or cartography/GIS.

Graduate: Semester plan. The Master's programs require a minimum of 22 credits of coursework and the successful defense of a thesis, and are normally completed in four semesters. The Ph.D. program requires a minimum of 32 credits of coursework, the completion of a minor and certification of a research skill, such as statistics or a foreign language. Admission to the Master's degree program requires a bachelor's degree with a minimum undergraduate grade point average of 3.0, but applicants with less than 3.5 GPA should have particularly strong letters of recommendation and/or Graduate Record Exam scores. Applicants are expected to have a strong background in the social or physical sciences, or the humanities, but not necessarily in geography. Applicants to the Ph.D. program must have a Master's degree in geography or a related field. Financial aid consideration for all programs requires Graduate Record Examination scores. All application materials must be received no later than December 15th, to be considered for financial aid.

Certificate: Semester Plan. The GIS Certificate program requires a set core curriculum of 15 credits, an additional elective (3/4 credits), and a 2-credit internship. Admission to the GIS Certificate program requires a bachelor's degree with a minimum undergraduate grade point average of 3.0. Undergraduate degrees can be in any of the social or physical sciences, or the humanities. No previous experience in geography is necessary. No GRE scores are required.

Financial aid: The majority of our graduate students are funded. In many cases, the department is able to offer long-term guarantees of financial assistance, usually five years for students who are starting with a Master's (2 years of funding) and planning on completing a Ph.D. (3 years of funding); and three years for those entering the Ph.D. program directly. The academic year stipend for a teaching assistant currently ranges from $12,519 to $18,067 (depending on level of appointment and teaching experience), plus benefits and remission of tuition. The Department also employs students as project assistants, who either assist staff members in their research or perform work in departmental laboratories and offices. The academic year stipend for a Project Assistant currently ranges from $12,623 to $19,126 (depending on level of appointment) plus benefits and remission of tuition. University Fellowships are available through a competitive program administered by the Graduate School. The department nominates its best applicants for these awards, which includes stipend, benefits, and remission of tuition. Advanced Opportunity (Minority) Fellowships are also available. University Fellowships are available through a competitive program administered by the Graduate School. The department nominates its best applicants for these awards, which currently yield $20,300 for the academic year, plus benefits and remission of tuition. Advanced Opportunity (Minority) Fellowships are also available. GIS Certificate students are not eligible for University funding. GIS Certificate students are not eligible for University funding.

FACULTY:

Samer Alatout, Ph.D., Cornell, 2003, Assistant Professor, Affiliate—environmental change, social theories of power and government, Foucault, theories of border, biopolitics, environmental conflict (water resources and the politics of identity), Palestine/Israel and the US/Mexico

Anna Vemer Andrzejewski, Ph.D., University of Delaware, 2001, Professor, Affiliate—American art, American material and visual culture, and North American vernacular architecture and landscape history

Waltraud A.R. Brinkmann, Ph.D., Colorado, 1973, Professor, Emerita—climatology, climate variations, Great Lakes, natural hazards

Ian G. Baird, Ph.D., British Columbia, 2008, Associate Professor—political ecology, upland peoples in mainland Southeast Asia, Lao Studies, human-environment relations, co-management of natural resources, development studies, post-colonial studies, social movements, social theory, identities, boundaries

James E. Burt, Ph.D., UCLA, 1980, Professor, Emeritus—climatology, quantitative methods, GIS

Martin T. Cadwallader, Ph.D., UCLA, 1973, Dean of Graduate School, Professor, Emeritus—urban, economic, quantitative analysis

Eric C. Carson, Wisconsin, Associate Professor, Affiliate—quaternary geology and fluvial geomorphology

William Cronon, Ph.D., Oxford 1981, Yale 1990, Frederick Jackson Turner and Vilas Research Professor—environmental history, environmental studies, North America (also History, Environmental Studies)

William Denevan, Ph.D., UC-Berkeley, 1963, Carl O. Sauer Professor, Emeritus—cultural ecology, historical, humid tropics, Latin America

Samuel F. Dennis, Jr., Ph.D., Pennsylvania State University, 2000, Associate Professor, Affiliate—landscape, health and well-being, social dimensions of environmental design at all scales, children, youth and families and the built environment, community design, planning and development, nature-based play and education

Daniel F Doeppers, Ph.D., Syracuse, 1972, Professor, Emeritus—social change and social geography of Third World cities, historical, Southeast Asia, China

Greg Downey, Ph.D., John Hopkins, Professor and Dean of College of Letters & Science, Affiliate—history and geography of information/ communication technology and labor

Holly Gibbs, Ph.D., Wisconsin, 2008, Assistant Professor—land-use change, globalization, tropical deforestation, carbon emissions, bioenergy (also Environmental Studies)

Qunying Huang, Ph.D., George Mason, 2011, Assistant Professor—spatial high-performance/grid/cloud computing, cyberinfrastructure, big data mining, social media/networks, large-scale environmental modeling and simulation

Robert Kaiser, Ph.D., Columbia, 1988, Professor and Chair—political and cultural geography, power, place-making and identification practices, b/ordering space, de- and re-territorialization, East-Central Eurasia

Ken Keefover-Ring, Ph.D., Colorado, 2008, Assistant Professor—biogeography, chemical ecology, plant secondary chemical variation, plant-animal interactions, herbivory, pollination, volatile organic compounds, allelopathy, plant competition, analytical chemistry, terpenoids, phenylpropanoids (also Botany)

Erika Marin-Spiotta, Ph.D., UC-Berkeley, 2006, Associate Professor—biogeochemistry, biogeography, land-use change, physical geography, people-environment

Joseph A. Mason, Ph.D., Wisconsin, 1995, Professor—soils, geomorphology, paleoenvironments

Phillip C. Muehrcke, Ph.D., Michigan, 1969, Professor, Emeritus—cartographic thought and communication, cartographic visualization

Lisa Naughton, Ph.D., Florida, 1996, Professor—wildlife ecology, political ecology, tropical agriculture, sub-Saharan Africa, Latin America

Kristopher N. Olds, Ph.D., University of Bristol, 1996, Professor—urban, economic, globalization, higher education, Pacific Rim

Robert C. Ostergren, Ph.D., Minnesota, 1976, Professor, Emeritus—cultural, historical, Europe, North America

Mutlu Ozdogan, Ph.D., Boston University, 2004, Assistant Professor, Affiliate—land-use/land-cover conversion, climate change

Morgan Robertson, Ph.D., Wisconsin, 2004, Associate Professor—political ecology, U.S. water policy, environmental markets

Robert E. Roth, Ph.D., Pennsylvania State University, 2011, Assistant Professor—cartography, geovisualization, and geovisual Analytics

Robert D. Sack, Ph.D., Minnesota, 1970, Clarence J. Glacken and Bascom Professor, Emeritus—political, economic, spatial analysis, geographic thought

Annemarie Schneider, Ph.D., Boston University, 2005, Associate Professor, Affiliate—urbanization, land use change, global environment change, remote sensing and GIScience

Yi-Fu Tuan, Ph.D., UC-Berkeley, 1957, J.K. Wright and Vilas Professor, Emeritus—cultural, attitudes toward environment

Matthew Turner, Ph.D., UC-Berkeley, 1992, Professor—environmental change, cultural ecology, political economy, pastoralism, Africa

Thomas R. Vale, Ph.D., UC-Berkeley, 1973, Professor, Emeritus—biogeography, natural resources, landscape and landscape change, American West

David Ward, Ph.D., Wisconsin, 1963, Chancellor, Emeritus and Professor, Emeritus—historical, urban, social, North America and Europe

Jack Williams, Ph.D., Brown University, 1999, Professor—global environmental change, paleoclimate, climate-vegetation interaction, palynology (pollen analysis)

Keith Woodward, Ph.D., Arizona, 2007, Associate Professor—social theory, geographies of affect, social movements and social change

Stephen Young, Ph.D., Washington, 2010, Assistant Professor, Geography and International Studies—political-economy, development, globalization, South Asia (also International Studies)

A Xing Zhu, Ph.D., Toronto, 1994, Professor—GIS, machine learning, remote sensing, environmental modeling and natural resource management

UNIVERSITY OF WISCONSIN, MILWAUKEE

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1956
GRADUATE PROGRAM FOUNDED: 1963
DEGREES OFFERED: B.A., B.S., M.A., M.S., Coordinated M.A./M.L.I.S. in Geography/Library and Information Science, Ph.D.
GRANTED 9/1/14-8/31/15: 16 Bachelors, 2 Masters, 3 Ph.D.
STUDENTS IN RESIDENCE: 56 Majors, 6 Masters, 18 Ph.D.
CHAIR: Mark D. Schwartz
DEPARTMENT ADMINISTRATIVE ASSTS: Niko Papakis

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Graduate Administrative Committee, Department of Geography, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, Wisconsin 53201. Telephone (414) 229-4866. Fax (414) 229-3981. E-mail: choiw@uwm.edu. Internet: www.geography.uwm.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers bachelors, masters, and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department's overall strengths are aligned along a theme of "Changing Environments", with three major axes, each responsive to areas with strong demand for new professionals:

Urban Environments: This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world's population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.

Physical Geography and Environmental Studies: This area addresses the interactions among natural forms and processes on the earth's surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses discuss and analyze the distribution and processes of earth surface landforms (geomorphology), soils (pedology), plants and animals (biogeography), water (hydrology), and long-term atmospheric conditions (climatology). Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.
Geographic Information Science (GIS): This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth's surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation (cartography), and societal implications. Our program emphasizes applications of GIS in urban, regional, and environmental planning, policy making, and public health.

Present teaching and research facilities associated with the Department include its large James John Flannery, Sr. Map Collection, which is now a part of the AGS Library (see below); the independently administered Cartography and Geographic Information Science Center; and a Soils and Physical Geography Laboratory. PC computer facilities used by the Geography Department for instruction include Windows workstation labs. Software installed in these labs includes Geographic Information Systems, Remote Sensing, Mapping, Illustration, Photo Editing, Desktop Publishing, Statistical, Database Management, and Word Processing packages. Multiple university servers, other general access PC & MAC computer laboratories, and multimedia facilities are also available for student use. Other research resources at UWM available to the Geography Department staff and students include the School of Freshwater Science, the School of Public Health, the Center for Urban Initiatives and Research, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, the Center for Women's Studies, the Institute for Survey and Policy Research, and University Information Technology Services. The University of Wisconsin-Milwaukee is also the home of the American Geographical Society Library. This multi-million dollar facility is housed in the Golda Meir Library. It contains about 450,000 maps, 200,000 volumes, 200,000 LANDSAT images, 160,000 photographs, 35,000 pamphlets, 7,600 atlases, 70 globes, digital maps and satellite imagery, and the AAG Archives.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Entrance and general requirements for the *Undergraduate Program*: Students must meet with the department's

undergraduate advisor to declare geography as a major. All majors must complete the 24-25 credit core curriculum and the additional requirements as defined in one of the 5 tracks: 1) geographic information, 2) urban, 3) environmental, 4) physical systems, or 5) globalization and development. Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems Track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.5 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.5 GPA in all major credits attempted, including any transfer work.

Entrance and general requirements for the *Graduate Program*: A Bachelor's degree is required for admission to the Master's program; a Master's degree is usually required for admission to the Doctoral program. If previous training was not in geography, students may be required to complete courses to eliminate deficiencies. Applicants must have a minimum grade point average in all academic subjects of 2.75 (on a 4.0 scale) and acceptable scores on the Graduate Record Entrance Exam (G.R.E.). Three current letters of recommendation, preferably from academic referees, must be sent directly to the Geography Department or to the online application system. Specific course requirements for both the Master's and PhD can be obtained from the department. The minimum degree requirements for the Master's degree are 30 graduate credits with an average GPA of 3.0 and satisfactory completion of a master's thesis or non-thesis option. The minimum degree requirements for the PhD are 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence with an average GPA of 3.0, and satisfactory completion of a doctoral dissertation.

Financial Aid for Graduate Students: The Department offers a limited number of Teaching Assistantships (50% appointment), Project Assistantships, and M.J. Read Graduate Fellowships. The TA and PA appointments carry a full tuition waiver. Teaching and Project Assistantships are awarded annually by the Department on a competitive basis, as are University Distinguished Graduate Student Fellowships, Distinguished Dissertation Fellowships, M.J. Read Fellowships, Non-Resident Tuition Remission Scholarships, and Advanced Opportunity Program (A.O.P.) Fellowships. Faculty members holding research grants also award Research and Project Assistantships. Applications for all awards must be made annually. Forms and deadline information are available from the Geography Department. Master's candidates are usually limited to two years of departmental financial support. Students admitted to the Ph.D. program with Master's degrees are usually limited to four years of departmental support. The Cartography and GIS Center hires students on a part-time basis. Internships are also available in the AGS Library and at various agencies locally.

FACULTY:

Kirsten Beyer, Ph.D., Iowa, 2009, Adjunct Assistant Professor—health geography, socio-spatial epidemiology, community engaged research, disease mapping, health inequalities, women's health

Anne Bonds, Ph.D., Washington, 2008, Associate Professor—political economy, social theory, critical poverty studies, politics of economic development, urban and regional restructuring

Woonsup Choi, Ph.D., Illinois-Urbana, 2005, Associate Professor—hydroclimatology, human impacts on water resources, hydrological modeling

Alison Donnelly, Ph.D., Trinity College, 1998, Associate Professor—environmental indicators, climate change, plant and animal phenology, environmental assessment

Glen Fredlund, Ph.D., Kansas, 1992, Associate Professor—biogeography, soils, geomorphology

Rina Ghose, Ph.D., Wisconsin-Milwaukee, 1998, Professor—GIS, urban geography, public participation GIS, GIS and society, North America, South Asia

Jonathan Hanes, Ph.D., Wisconsin-Milwaukee, 2011, Adjunct Assistant Professor—bioclimatology, plant phenology, vegetation feedbacks to the lower atmosphere, fluxes of energy and mass in forest ecosystems, philosophy of science

Ryan Holifield, Ph.D., Minnesota, 2007, Associate Professor—environmental geography, environmental justice, science studies and social theory, North America

Anna Mansson-McGinty, Ph.D., Lund, 2002, Associate Professor—gendered geographies, geography of Islam, Scandinavia.

Linda McCarthy, Ph.D., Minnesota, 1997, Associate Professor—urban and regional economic development/planning, globalization, North America, Europe

Frederick Nelson, Ph.D., Michigan, 1982, Adjunct Professor—permafrost, periglacial and climatic geomorphology, topoclimatology, spatial analysis, cryosphere, Arctic

Mark D. Schwartz, Ph.D., Kansas, 1985, Distinguished Professor—phenoclimatology, synoptic climatology, remote sensing, plant-climate interactions, climate change

Kristin Sziarto, Ph.D., Minnesota, 2007, Associate Professor—social movements and spatiality, political geography, population geography

Changshan Wu, Ph.D., Ohio State, 2003, Professor—GIS, remote sensing, spatial analysis methods, urban, transportation

Zengwang Xu, Ph.D., Texas A&M, 2007, Assistant Professor—GIS, spatial analysis and modeling, complex networks/systems

Hyejin Yoon, Ph.D., Ohio State, 2008, Assistant Professor—economic geography, urban geography, entrepreneurship, regional innovation systems, urban planning, urbanization

EMERITUS FACULTY:

Michael Day, D. Phil., Oxford, 1978, Professor Emeritus
Donn Haglund, Ph.D., Pennsylvania, 1958, Professor Emeritus
Ludwig Holzner, Dr. rer. nat., Wurzburg, 1964, Professor Emeritus
Judith Kenny, Ph.D., Syracuse, 1990, Associate Professor Emerita
Norman Stewart, Ph.D., UCLA, 1963, Associate Professor Emeritus

UNIVERSITY OF WISCONSIN, RIVER FALLS

DEPARTMENT OF GEOGRAPHY AND MAPPING SCIENCES
DATE FOUNDED: 1966
DEGREES OFFERED: B.A., B.S.
GRANTED 9/1/11-8/31/12:12 Bachelors
MAJORS: 35
CHAIR: John Heppen
DEPARTMENT ASSOCIATE: Kathryn Possehl

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, University of Wisconsin-River Falls, 410 S. 3rd St., River Falls, Wisconsin 54022-5001.
Telephone (715) 425-3264. Fax (715) 425-0611
E-mail: john.heppen@uwrf.edu. Internet: www.uwrf.edu/geog.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-River Falls is a campus of 6000 students located adjacent to the Minneapolis-St. Paul metropolitan area. The Department of Geography offers a major and minor in liberal arts, a minor in education, and a minor in GIS/Cartography. Majors require a minimum of 37 semester credit hours and minors, 21 semester credits. From a wide range of undergraduate courses students may emphasize physical geography, especially weather and climate, cultural/historical geography of North America, or cartography and geographic

information systems (GIS). The physical geography program focuses on fieldwork and applied coursework. The GIS/Cartography program is developed from eight cartography and GIS courses offered within the department, as well as from courses in general engineering, environmental science, computer information systems, and art. Advanced students often are employed through internships with local agencies and corporations. A GIS lab is supported by the department. This facility is fully integrated into the curriculum and received a major upgrade summer 2007. Equipment and software include 24 XP workstations, a Sun file server on a SAN network, large and small format color printers, scanners, ArcGIS, Arcview, Idrisi, Adobe Creative Suite, MS Office, and SPSS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Contact the Admissions Office for application materials and the Office of Financial Assistance for information on financial aid. Geography students may find work in the GIS Lab or with individual faculty.

FACULTY:

Ruth Baker, Ph.D candidate, University of Minnesota, 2012, Assistant Professor

Mathew Dooley, Ph.D., University of Nebraska, 2006, Associate Professor—cartography, geographic information systems, landscape analysis

John Heppen, Ph.D., Louisiana State University, 1998, Professor—political, historical, social, spatial analysis, United States

Charles Rader, Ph.D., Michigan State, 1995, Professor—geographic information systems, cartography, people/environment, Africa

UNIVERSITY OF WISCONSIN, STEVENS POINT

DEPARTMENT OF GEOGRAPHY AND GEOLOGY
DATE FOUNDED: 1950
DEGREES OFFERED: B.S.
GRANTED: 9/1/14-8/31/15: 30 Bachelors
MAJORS: 97
CHAIR: David Ozsvath
ACADEMIC DEPARTMENT ASSOCIATE: Mary Clare Sorenson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography and Geology, University of Wisconsin-Stevens Point, Wisconsin 54481.
Telephone 715-346-2629. Fax 715-346-3372.
E-mail: geoggeol@uwsp.edu. Internet: www.uwsp.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES: Students can major in either geography or geoscience and may select from minors in earth science, geology, environmental geography, or GIS and spatial analysis. The GIS and spatial analysis minor provides students in related disciplines a strong background in geographic-based techniques. Qualified seniors are encouraged to culminate their degree activities with an internship. Cooperative agreements with both local and state agencies provide intern opportunities for majors. An affiliated GIS Center affords students applied research opportunities and assistantships.

The department maintains several special facilities. Large GIS, remote sensing, and cartographic laboratories house an extensive array of contemporary equipment, including fifty workstation PCs, specialized Web, SDE and ArcGIS internet servers and several dedicated departmental servers for thematic and reference mapping, GIS analysis, remote sensing interpretation, and Internet resource site development. Available computer peripherals include color laser printers, large format printers (42”), large (52”) and small format scanners, digital cameras, field tablets, iPad’s, and broad access to the Internet and the university's computer network. Students may have an opportunity to add to the department’s Web page, and Internet reference materials. Cartographic and GIS instruction is facilitated by a sizeable software collection: Surfer, MapViewer, ArcGIS (and all associated ESRI products), ERDAS Imagine, Map Publisher, CorelDRAW, and Vue 11. All Adobe software is also maintained by the Department including Flash, Director, Premiere, Photoshop, Dreamweaver, InDesign, and Illustrator. Field equipment includes real-time and post-processing decimeter GPS units, a GPS base station, PDA’s, portable field computers, tree core borers, stream current meters, soil sieves, and a stream current table. Several multimedia and GIS laboratories contain digital equipment and specialized software (e.g. Camtasia Studio) for developing Web-based materials and interactive multimedia products. The Map Center is an official depository for U.S. Geological Survey topographic maps and the National Geospatial Intelligence Agency. Several specialized map series, in both analog and digital form, are also housed within the Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan*—Semester system. *Admissions Requirements:* Contact Director of Admissions, University of Wisconsin-Stevens Point, Stevens Point, Wisconsin 54481, 715-346-2441. *Financial Aid:* Contact Office of Student Financial Aid, University of Wisconsin-Stevens Point, Wisconsin 54481, 715-346-4771.

FACULTY:

Kevin P. Hefferan, Ph.D., Duke University, 1992, Professor—structural geology, tectonics, physical geology, field geology, earth materials

Neil C. Heywood, Ph.D., University of Colorado, 1989, Professor—environmental hazards, biogeography, field skills, outdoor recreation, environmental change

Samantha W. Kaplan, Ph.D., University of Wisconsin-Madison, 2003, Associate Professor—Quaternary studies, climatology, paleoecology, sedimentary geology, environmental change

Timothy T. Kennedy, Ph.D., University of Wisconsin-Madison, 2014, University of Wisconsin-Madison, Assistant Professor—GIS education, remote sensing, land change science, PPGIS

Christine A. Koeller, M.S., University of Wisconsin-Stevens Point, GIS Faculty Associate—mobile GIS, environmental science, field research

Eric J. Larsen, Ph.D., Oregon State University, 2001, Professor—remote sensing, digital image processing, physical geography

Karen A. Lemke, Ph.D., University of Iowa, 1988, Professor—physical geography, geomorphology, quantitative methods

Douglas A. Miskowiak, M.S., University of Wisconsin-Madison, GIS Education Specialist—GIS, GeoDesign, PPGIS

Ismaila Odogba, Ph.D., University of Louisville, 2009, Associate Professor—urban and regional planning, global political economy, land use, comparative urban development, quantitative methods

David L. Ozsvath, Ph.D., Binghamton University, 1985, Professor—hydrogeology, geochemistry, environmental geology

Keith W. Rice, Ph.D., University of Kansas, 1989, Professor—cartography, environmental GIS, map animation, map visualization, mobile GIS

Michael E. Ritter, Ph.D., Indiana University, 1986, Professor—physical geography, distance education, climatology

Lisa J. Theo, ABD, University of Wisconsin-Madison, Instructor—urban/economic geography, historical geography, environmental history, tourism geography, quantitative methods

UNIVERSITY OF WISCONSIN, WHITEWATER

DEPARTMENT OF GEOGRAPHY, GEOLOGY & ENVIRONMENTAL SCIENCE
DATE FOUNDED: 1963
DEGREES OFFERED: B.A., B.S., B.S.E.
GRANTED 6/1/15 - 5/31/16: 34 Bachelors
MAJORS: 65 Geography, 65 Environmental Science
CHAIR: Dr. Peter Jacobs

ACADEMIC DEPARTMENT ASSOCIATE: Susie Olson
FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Geology, University of Wisconsin-Whitewater, 800 W. Main Street, 120 Upham Hall, Whitewater, Wisconsin 53190.
Telephone (262) 472-1071. Fax (262) 472-5633.
Internet: jacobsp@uww.edu
Web: http://www.uww.edu/cls/geography-geology.

PROGRAM AND RESEARCH FACILITIES: Undergraduate majors and minors are available to students through both the College of Letters and Sciences and the College of Education. Students majoring in geography can emphasize either Geography or Geology. In addition to minors in both geography and geology, two interdisciplinary minors, Environmental Studies and Urban and Area Development, are also housed and administered in the department. The department plays a key role in an Environmental Science major that relies on many departmental courses in physical geography, geology, GIS, and resource management. The major is now administratively housed in the department.

The department offers outstanding computing facilities for student and faculty use. There are two dedicated computer labs for teaching introduction to mapping, introductory and advanced GIS, remote sensing, and applied GIS courses. Forty-six computer workstations are available in these labs, with each containing the full array of ESRI products, Adobe Illustrator, and ERDAS Imagine. The department houses Pangaea Studios, a GIS Center providing services for local and state agencies and non-profit organizations. A technical/research lab is used primarily for climate and remote sensing data analysis. The department maintains the campus weather station and provides access to real time data that is utilized by television stations in Madison and Milwaukee. Other lab spaces are available for physical geography and geology. Besides introductory physical geography and geology teaching labs, the department has advanced teaching and research labs, including a soils and geomorphology analysis lab with XRD and XRF facilities, and two geology laboratories (hard rock and soft rock).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Applications are available from: Admissions Office, UW-Whitewater, Whitewater, WI 53190. On line application at: http://www.apply.wisconsin.edu. Contact Financial Aid Office for routine financial aid opportunities. The department administers the unique and large Warren and Rose Fischer Scholarship program for Education majors minoring in Geography. This scholarship program assists students who meet the appropriate education and geography criteria. The Fischer Scholarship is renewable each semester as long as students remain in good academic standing and until the appropriate degree is conferred. The Folkerth Scholarship is also available to recognize an outstanding geography major committed to and effective at promoting geography and working with other students and faculty. Some students are paid as research assistants on faculty research grants. Paid and for credit internships with public agencies and private firms are available to geography majors as well. In addition, the department has a substantial Work Study allocation to provide paid work opportunities for eligible students.

FACULTY:
Prajukti Bhattacharyya, PhD, Minnesota, 2000, Associate Professor—Mineralogy, Structural Geology, Environmental Geology
Jonathan Burkham, PhD, UW Milwaukee, 2012, Assistant Professor—Latin America, Migration, Labor Market
Rocio Duchesne-Onoro, PhD, Montclair State University, 2015, Assistant Professor—Remote Sensing, GIS, Biogeography
Eric Compas, PhD, UW-Madison, 2008, Associate Professor—Political Ecology, Environmental Geography, Protected Areas, Private Land Conservation
John Frye, PhD, University of Georgia, *2011, Associate Professor*—Climatology, Meteorology
Rex Hanger, PhD, Berkeley, 1992, Associate Professor—Paleontology, Stratigraphy, Sedimentology, Oceanography
Peter Jacobs, PhD, UW-Madison, 1994, Professor & Chair—Geomorphology, Soils
Margo Kleinfeld, *PhD, Kentucky, 2005, Associate Professor*—Political, Human/Cultural, Feminist and Social Theory, South Asia
Stephan Levas, PhD, Ohio State, 2012, Assistant Professor—Aquatic Ecosystems, Marine
Jeff Olson, PhD, Ohio State, 2013, Assistant Professor—Economic, Land Change, GIS
Andrea Romero, PhD, Kansas, 2013, Assistant Professor—Ecology, Evolutionary Biology, Mammal Communities
Dale Splinter, PhD, Oklahoma State, 2006, Associate Professor—Geomorphology, Rivers, Stream Ecology
David Travis, PhD, Indiana, 1994, Professor & College Dean—Satellite Meteorology, Synoptic Climatology, Mesoscale Climate Change
*Jeffery Zimmerman, Ph*D*, UW-Madison, 2003, Associate Professor*—Urban Geography, Cultural Geography, Planning and Social Theory

ACADEMIC STAFF:
Jean Kowal, ABD, UW-Milwaukee, Lecturer—Physical Geography, Environmental, Global Issues

WYOMING

UNIVERSITY OF WYOMING

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1966
GRADUATE PROGRAM FOUNDED: 1966
DEGREES OFFERED: B.A., B.S., M.A., M.S.T., M.P.
GRANTED MAY 2015: 12 Bachelors, 3 Masters
STUDENTS IN RESIDENCE: 56 Majors, 16 Masters
NOT IN RESIDENCE: 6 Masters
CHAIR: William J. Gribb
DEPARTMENT ADMINISTRATIVE ASST: Sandra "Sam" Kerr

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Geography, Dept. 3371, 1000 E. University Ave., University of Wyoming, Laramie, Wyoming 82071.
Telephone (307) 766-3311. Fax (307) 766-3294.
E-mail: stitch@uwyo.edu. Internet: www.uwyo.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: M.A. program in geography emphasizes human; physical; geographic information

systems; and environment and resource management, with a particular focus on the Great Plains/Rocky Mountain region. A specialized M.A. program with a focus on Water Resources is also offered. M.P. program in planning emphasizes rural and small town planning and environmental planning. Curricula are individually tailored, but include at least two skills from among the following: computer cartography, quantitative methods, field methods, remote sensing, and geographic information systems. The program is connected with the Wyoming Geographic Information Sciences Center (WyGISC); the director of WyGISC holds a faculty appointment in the Department of Geography.

Physical Geography: Centers on biogeography, climatology (particularly in climate variability), geomorphology, archeology, soils, process geomorphology including hydrology, and landscape ecology-especially pertaining to the Rocky Mountain area. New laboratory facilities permit training in advanced techniques. Courses in allied disciplines are encouraged.

Spatial Analysis, Information, and Display: Offers training in field techniques, mapping, GIS, GPS, remote sensing, and computer mapping. Internships are available. Courses in allied disciplines are encouraged.

Natural Resource Management/Recreation: Provides training in resource management in such areas as land use planning, wildlife management, water resources, and the impact of development on environmental values. Courses in geography and related fields provide an interdisciplinary framework.

Human Geography: Examines spatial and historical context of human systems, processes, behavior, cultural landscapes and forms of geographic organization. Courses in allied disciplines are encouraged.

Planning: Offers training in small town/rural areas, natural resources, land use and environmental planning leading to the Master in Planning degree. Interdisciplinary in content, it involves various colleges and departments and prepares individuals as community, or environmental planning directors in rural and mountain states. The Department also accepts qualified applicants in biogeography or related ecology areas for the University's Ph.D. Program in Ecology.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan* M.A., M.P. Plan A, with Thesis. Plan B, with 2 papers.

Admission Requirements-- Verbal and quantitative GRE scores and minimum undergraduate GPA required. Undergraduate backgrounds in social or natural sciences and the humanities accepted. Deficiencies remedied during the graduate program.

Financial Aid--full-time masters' level Graduate Assistantships, pay $12,078 plus remission of tuition and fees. Graduate assistantships include both teaching and research assistantships. Applicants for the Ph.D. in Ecology should meet the same standards as for the masters' program and hold a masters' degree. The Ph.D. assistantship stipend for a full-time doctoral student is $16,785 plus tuition and fees remission.

FACULTY:

Shannon Albeke, Ph.D., University of Georgia, 2010, Assistant Research Scientist—spatial ecological data processing and analysis

Yi Ling Chen, Ph.D., Rutgers University, 2000, Joint Global and Area Studies/Geography, Assistant Professor—Neoliberalism, housing policies, and gender

William J. Gribb, Ph.D., Michigan State, 1982, Professor and Chair—land resource planning, rural community planning, cultural ecology, computer cartography/GIS

Jeffrey C. Hamerlinck, Ph.D., University of Colorado - Boulder, 2010, Research Scientist and Director, Wyoming Geographic Information Sciences Center—geographic information science, spatial decisions support systems, land resource planning

Carl J. Legleiter, Ph.D., University of California Santa Barbara, 2008, Adjunct Associate Professor—geomorphology, remote sensing, water resources

Thomas Minckley, Ph.D., University of Oregon, 2003, Associate Professor—Conservation and Natural Resources, Biogeography

Steven Prager, Ph.D., Simon Fraser, 2002, Adjunct Associate Professor—geographic information science, spatial modeling, network theory, sustainable development

Jacqueline J. Shinker, Ph.D., University of Oregon, 2003, Associate Professor—climatology, climate change, hazards, paleoclimatology

Gerald R. Webster, Ph.D., University of Kentucky, 1984, Professor—political, urban, and human geography, planning

Chen Xu, Ph.D., Texas A&M, 2010, Assistant Professor—Volunteered Geographic Information, Big Geospatial Data Analytics, Social Media, and Geographic Information Science

John L. Allen, Ph.D., Clark, 1969, Professor Emeritus—historical, history of geography, environmental studies, landscape change, American West

William L. Baker, Ph.D., Wisconsin-Madison, 1987, Professor Emeritus—biogeography, landscape ecology, natural resources, conservation, remote sensing, GIS

Ronald Beiswenger, Ph.D., Michigan, 1972, Professor Emeritus—natural resource conservation, geographic education, biogeography

Thomas Buchanan, Ph.D., Illinois, 1979, Professor Emeritus—quantitative methods, research design, social behavior, natural resource management

Deborah D. Paulson, Ph.D., Hawaii, 1992, Professor Emeritus—human ecology, land use and management, international development, sustainable agriculture

CANADA

ALBERTA

UNIVERSITY OF ALBERTA

DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES
DEGREES OFFERED: B.Sc., B.A., M.Sc., M.A., Ph.D.
GRANTED 1/1/15-12/31/15: 57 B.Sc., 15 B.A, 15 Masters, 7 Ph.D.
STUDENTS IN RESIDENCE: 377 Majors (Science and Arts), 76 Masters, 51 Ph.D.
NOT IN RESIDENCE: 8 Masters, 3 Ph.D.
CHAIR: S. Johnston

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Department of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Alberta, Canada T6G 2E3.
Telephone 780-492-3265. Fax 780-492-2030.
World Wide Web http://www.ualberta.ca.eas
E-Mail EAS.Inquiries@ualberta.ca

PROGRAMS AND RESEARCH FACILITIES: Individual graduate programs vary with the interests and training of the candidate. Minimum course requirements comprise three single-term courses for M.Sc./M.A. candidates who have completed four-year baccalaureate degrees, and six single-term courses beyond the baccalaureate degree for Ph.D. candidates. A thesis is required of all graduate students. There are no formal foreign language requirements. A one year course-based MSc program in Integrated Petroleum Geoscience is a joint program between the Departments of Earth and Atmospheric Sciences and Physics. Course requirements are 8 core courses and 4 optional courses.

The Department houses laboratories, computing systems and field equipment to support research in various disciplines including Geomorphology, Sedimentology, Geochemistry, Petrology, Climatology, Biogeography, GIS and Remote Sensing. Analytical equipment and facilities relevant to these fields include scanning electron microscope, electron microprobe, powder x-ray diffraction, ion chromatographs, mass spectrometers for stable and radiogenic isotopic analyses, Quadrupole ICP_MS, MC-ICP-MS, an x-ray sedigraph, an extensive thin section preparation facility, a micro-FTIR and continuum infrared microscope, and extensive research collections. Two Class 100 clean laboratories and several cold rooms are available. There is also a full range of field equipment including ground and ice penetrating radar systems, GPS and Total Station surveying systems, ice coring drill, borehole inclinometer, field portable gamma spectrometer and fluorometer, numerous dataloggers and sensors for measurement of microclimatic, meteorological, hydrological and hydrochemical data, and vibracoring/percussion systems for lake sediment coring. Available Unix and PC-based computing systems provide PCI and Envi image processing software, ARC-INFO and IDRISI GIS, ERADAS, as well as specialized modeling software to support the multi-disciplines. The department also houses the Earth Observation Systems Laboratory (EOSL), and the Centre for Earth Observation Science (CEOS) which brings together scientists from Computing Science, Engineering and Earth and Atmospheric Sciences, as well as the Community, Health and Environment Research Centre (CHE).Facilities for scanning, digitizing, color printing and photogrammetry are available.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: There are two regular semesters: September-December and January-April. Intersession courses are in the period May-August.

The Department offers undergraduate courses leading to the B.Sc. and B.A. degrees, with a choice of General, Specialization and Honors programs. B.Sc. programs are offered in Atmospheric Sciences, Environmental Earth Sciences, Geology, Paleontology and Urban Planning. A B.A. program is offered in Human Geography and Urban Planning (Major/Minor only). For additional information, see our website at http://www.ualberta.ca/eas;
E-Mail - EAS.Inquiries@ualberta.ca

An Industrial Internship Program enables students to combine 8 to 16 months of work experience in related fields with their academic training

Graduate - A baccalaureate degree with at least second-class standing (75%) in the last two years of undergraduate work, and the approval of the Department. Application by February 15 is advised if financial assistance from the department is required. For additional information, see our website at http://www.ualberta.ca/eas;
E-Mail - EAS Inquiries@ualberta.ca

FACULTY:
A detailed list of faculty and graduate students and their research interests is available on our Web page at http://www.ualberta.ca/eas

UNIVERSITY OF CALGARY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1961
GRADUATE PROGRAM FOUNDED: 1961
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., MGIS, Ph.D.
GRANTED 1/1/14-12/31/14: 71 Bachelors, 11 Masters, 4 Ph.D.
STUDENTS IN RESIDENCE (2014): 414 Majors, 62 Masters, 34 Ph.D.
HEAD: Dr. John Yackel
GRADUATE PROGRAM ADMINISTRATOR: Paulina Medori

FOR DETAILED INFORMATION EMAIL: geograd@ucalgary.ca or check website at http://www.geog.ucalgary.ca/.

CURRENT ADDRESS: Graduate Program, Department of Geography, University of Calgary, ES 356, 2500 University Dr NW, Calgary, AB, Canada T2N 1N4. Telephone (403) 220-5584
Fax (403) 282-6561, E-mail: geograd@ucalgary.ca.

PROGRAMS AND RESEARCH FACILITIES: Programs of undergraduate study include Geography, Urban Studies and Earth Science. Programs of graduate study are offered in most fields of Geography at the masters and doctoral levels (course work and thesis required). A coursebased Masters in GIS (MGIS) is also available. Calgary provides an excellent location and staging area for many forms of Geographical research and for issues related to human-environment interactions. The Department is a leader in developing technical expertise to apply to these and many other issues. Faculty members conduct research in the fields of geomorphology, biogeography, climatology, glaciology and cryospheric studies, hydrology, soils, environmental studies, tourism, urban and economic studies, remote sensing, computer cartography, GIS, transportation, medical, health, human, social and historical geography. Research

focuses primarily on Western Canada, The Arctic, the Americas and Europe. State-of-the-art research, teaching, computing and analytical facilities and software exist within three 24-seat computing labs, and are enhanced by three full-time technicians. Field equipment and support also is available, and the University Weather Research Station is accessible for faculty and student research. Field stations are used through cooperation with the Kananaskis Centre for Environmental Research, and field education is available for all levels of students for course and research work. Geography participates actively in the work of the Van Horne Institute for International Transportation & Regulatory Affairs, the World Tourism Education and Research Centre, the Institute for Advanced Policy Research, the Interdisciplinary Graduate Program, Earth Sciences, Environmental Science, Urban Studies, and Latin American Studies programs.

FACULTY: A detailed list of faculty and graduate students and their research interests is available on our Web page at:
http://www.geog.ucalgary.ca

BRITISH COLUMBIA

SIMON FRASER UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1965
GRADUATE PROGRAM FOUNDED: 1965
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 9/1/14-8/31/15: 127 Bachelors, 8 Masters, 5 Ph.D.
STUDENTS IN RESIDENCE: 480 Majors, 8 M.A., 14 M.Sc., 31 Ph.D.
CHAIR: Tracy Brennand
DEPARTMENT ADMINISTRATIVE ASSISTANT: Anke Baker

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department Chair, Department of Geography, 8888 University Drive, Burnaby, BC, Canada, V5A 1S6. Telephone (778) 782-3718. Fax (778) 782-5841. E-Mail: geog-info@sfu.ca
Internet: http://www.sfu.ca/geography/

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography is a founding department of the Faculty of Environment.

Undergraduate Program: Undergraduate students at Simon Fraser University may specialize in one of three broad realms: Human Geography, Physical Geography, and Spatial & Geographic Information Science. For students with primary interests in **Human Geography**, the department offers a mainstream BA, with emphases on social and urban themes or on economic and resource issues. There is also a separate BA with a strong environmental dimension: the Environmental Specialty major. Additionally, students may enroll in a cross-disciplinary Certificate in Urban Studies. Three concentrations in the **Physical Geography** BSc are available: (1) *Biogeophysical Science* exposes students to a broad range of environmental science courses that address geomorphology, climatology, hydrology, soils, and biogeography; (2) *Geoscience* is similarly broad-ranging but specifically targets the academic requirements needed to apply for registration as a Professional Geoscientist; (3) *Physical Geography and Spatial Information Science gives students the opportunity to focus on the linkages between Earth System Science and Spatial Information Systems.* **Spatial & Geographic Information Science** at Simon Fraser encompasses remote sensing, cartography, GIScience, spatial data analysis, and geovisualization. All students include SIS coursework within their BA or BSc degrees (see above) and may supplement their chosen degree with a Certificate in Spatial Information Science. Also available is an independent BSc in Geographic Information Science, offered in cooperation with the School of Computing Science. For more information on the undergraduate program, please see:
http://www.sfu.ca/geography/undergraduate-programs.html.

Graduate Program: The Department of Geography at SFU has a tradition of research excellence in a diversity of disciplines, spanning human geography, earth system dynamics, and spatial and geographic information science. The majority of graduate research is conducted in western North America, although research further afield is not uncommon. Facilities for advanced work include well-equipped soils, geomorphology, biogeography, climatology, GIS and human geography laboratories.

M.A., M.Sc. and Ph.D. programs: The department has six broad research foci: The City, Geographical Political Economies, Global Environmental Change, Water Science, Spatial Information Theory and Spatial Health. Faculty from across the department contribute to each of these areas of interest, and thesis work in the program generally engages one or more of these research foci. Graduate research is particularly encouraged in the following areas: landscape ecology, climate science, geomorphology, and soil science; geographic/spatial information science, and geovisualization and remote sensing; health geography, political geography, urban geography, economic geography, cultural geography, social theory, political economy, and tourism.

For information on these specializations, faculty members, and detailed information concerning all aspects of the graduate program, please visit the departmental website,
http://www.sfu.ca/geography/graduate-studies.html, and/or contact the Department.

GRADUATE ADMISSION REQUIREMENTS AND FINANCIAL AID: Admission Requirements: Generally, admission to the Graduate Program is in the Fall semester, and applications should be complete by January 15 of the admission year. **Masters candidates** should have an undergraduate grade point average of 3.25. Candidates for the Mastersdegree are expected to complete the degree (30 credit hours) in six terms. Requirements include a thesis (18 credit hours) and 12 credit hours of required and elective courses. M.A. applicants are expected to show or acquire competence in a range of the social theory and methodological approaches informing contemporary human geography. M.Sc. applicants normally hold a B.Sc. degree or equivalent in geography, environmental or earth science or a related discipline.

The Ph.D. program has no required courses; any coursework is determined in consultation with the supervisor. Admission to pursue the doctoral degree is granted only when the department has evidence of the candidate's ability to work at the most advanced level and produce a satisfactory dissertation. Prospective students should contact individual faculty members in advance of applying for admission.

Financial Aid: Graduate students are typically funded through a combination of Research Assistantships, Teaching Assistantships, and/or internal and external scholarships. Limited funds are also available to support student travel.

FACULTY:
Shivanand Balram, Ph.D., McGill, 2005, Senior Lecturer—spatial information science, quantitative geography, spatial decision support.
Nicholas Blomley, Ph.D., Bristol, 1986, Professor —law, property, the city.

Tracy Brennand, Ph.D., Alberta, 1993, Professor & Chair—glacial geomorphology and sedimentology, paleoglaciology, paleohydrology

Alex Clapp, Ph.D., UC-Berkeley, 1993, Professor—economic geography, resource conservation, forest policy

Valorie Crooks, Ph.D., McMaster, 2005, Associate Professor—medical/social geography, health care, disability and chronic illness

Suzana Dragicevic, Ph.D., Montreal, 1999, Professor—GIS, spatial analysis and modeling, geosimulation, complex systems

Alison Gill, Ph.D., Manitoba, 1982, Professor—coastal tourism, resort development, secondary homes, tourism in mountain communities

Roger Hayter, Ph.D., Washington, 1973, Professor—BC's forest economy, environmental economic, geography of the evolutionary firm

Nick Hedley, Ph.D., Washington, 2003, Associate Professor—geovisualization, GIS, cartography, augmented reality, geospatial interface and virtual environments

Meg Holden, Ph.D., New School for Social Research, NY, 2004, Associate Professor—urban environmental and pragmatic philosophy and public participation, urban sustainable development, social learning, public policy

Paul Kingsbury, Ph.D., Kentucky, 2003, Associate Professor—cultural and social geography, psychoanalysis, social theory, aesthetics

Lance Lesack, Ph.D., UC-Santa Barbara, 1988, Professor—ecosystem biogeochemistry, land and water interactions, limnology

Geoff Mann, Ph.D., UC-Berkeley, 2003, Professor—Political economy, capitalism, macroeconomic policy, politics of climate change

Eugene McCann, Ph.D., Kentucky, 1998, Professor—urban politics and policy, cultural politics and local economic development

John Pierce, Ph.D., London School of Economics, 1976, Professor—economic and rural geography, research methodology

Margaret Schmidt, Ph.D., British Columbia, 1992, Associate Professor—soil science, forest soils, digital and predictive soil mapping, spatial patterns of soil properties

Nadine Schuurman, Ph.D., British Columbia, 2000, Professor—GIS, health geography, spatial data, ontologies, metadata, critical GIScience

Janet Sturgeon, Ph.D., Yale, 2000, Associate Professor—human geography of contemporary Asia

Jeremy Venditti, Ph.D., British Columbia, 2003, Associate Professor; Director of the Environmental Science Program—fluvial geomorphology and sedimentology, landscape dynamics, morphodynamic modeling of river sediment

Kirsten Zickfeld, Ph.D., Potsdam, 2004, Associate Professor—climate change science, climate projections, climate-carbon cycle feedbacks, carbon budget, earth system modeling

Ivor Winton, Ph.D., Minnesota, 1987, Senior Lecturer—population, history of geographical thinking

LIMITED TERM LECTURERS:

Faran Ali, Ph.D., Saskatchewan, 2009—Hydrology, fluvial geomorphology, erosion modelling, sediment budgets

John Irwin, PhD, British Columbia, 2004—Sustainable development and resource planning, economic and transportation geography.

ASSOCIATE MEMBERS:

Martin Andresen, Ph.D., UBC, 2006, Professor (School of Criminology)—applied spatial statistics, spatial crime analysis, regional trade patterns

Yildiz Atasoy, Ph.D., University of Toronto, 1998, Professor (Department of Sociology & Anthropology)—global political economy, political sociology, state restructuring, social change and development, political economy of agrifood systems, neo-liberal urbanism

Clint Burnham, Ph.D., York University, Associate Professor (Department of English)

Jeff Derksen, Ph.D., University of Calgary, 2000, Associate Professor (Department of English)

Peter Hall, Ph.D., UC-Berkeley, 2002, Professor (Urban Studies Program)—port cities, logistics, employment, community development, urban economies

Kirsten McAllister, Ph.D., Carleton University, 1999, Associate Professor (School of Communication)

Kendra Strauss, D.Phil., University of Oxford, 2008, Assistant Professor (Department of Sociology & Anthropology)—labour geography, economic geography, feminist political economy, social reproduction, legal geography, pensions

Joseph E. Taylor III, Ph.D., University of Washington, 1996, Professor (Department of History)—environmental history of fisheries, recreation, gentrification, outdoor sports, and public lands

ADJUNCT FACULTY:

Stuart C. Aitken, Ph.D., Western Ontario, 1985—children and youth, families and communities, qualitative methods, critical theory, critical GIS, urban, film and media

Steve Cumming, Ph.D., University of British Columbia, 1997—boreal ecology, fire ecology, spatial simulation, conservation planning

Michael Eby, BASc, University of British Columbia, 1985—Climate modelling, carbon cycle feedbacks, climate change longevity

Nathan Gillet, D. Phil, Oxford, 2002—Climate change modelling and attribution

Michael Goodchild, Ph.D., McMaster, 1965—geographic information science and systems

Andy Jonas, Ph.D., The Ohio State University, 1989—urban political geography, regionalism, labour geography, scale

Ray Kostaschuk, Ph.D., McMaster, 1984—fluvial hydrology, geomorphology

Meg Krawchuk, Ph.D., Alberta, 2007—landscape ecology, pyrogeography, biogeography, conservation science

Victoria Lawson, Ph.D. Ohio State University, 1986—relational poverty studies, feminist geography

Olav Lian, Ph.D., Western Ontario, 1997—quaternary sedimentology and stratigraphy, glacial geology, geomorphology and geochronology

Nathan Menzies, Ph.D., University of California, Berkeley, 1988—Forest resources management in China, community-based resources management, environmental history, history of botany in China

Christiana Miewald, Ph.D., University of Kentucky, 2000—food security, urban agriculture, gender and sexuality, gentrification

Byron Miller, Ph.D., Minnesota, 1995—space and social movements, urban politics, urban governance and governmentality, politics of urban and regional sustainability, socio-spatial polarization

Lenore Newman, Ph.D., York University, 2004—food security, sustainable cities, culinary geography, nature/culture interface

Ronan Paddison, Ph.D., University of Aberdeen, 1969—urban democratic processes, making of inclusive public spaces

Mary Thomas, Ph.D., Minnesota, 2002—feminist and urban geography, girlhood studies, incarceration

Kevin Ward, Ph.D., University of Manchester, 1998—economic development, policy mobilities, urban and regional policy economy

EMERITI FACULTY:

Robert C. Brown, Ph.D., Michigan State, 1967—fisheries geography, resources development

Len Evenden, Ph.D., Edinburgh, 1970—urban, local government

Edward Hicken, Ph.D., Sydney, 1971—fluvial geomorphology and sedimentology

Thomas Poiker, D.Phil, Heidelberg, 1966—economic, quantitative, computer cartography, GIS

Michael Roberts, Ph.D., Iowa, 1966—fluvial geomorphology, field methods

Arthur Roberts, Ph.D., Ph.D., York, 1982—remote sensing, photogrammetry, cultural, historical, paleoenvironments

Shue Tuck Wong, Ph.D., Chicago, 1968—resources management, quantitative methods

RETIRED FACULTY:
Robert Horsfall, Ph.D., Johns Hopkins, 1969—social geography, environmental psychology
Ian Hutchinson, Ph.D., Simon Fraser, 1977, Professor—quaternary environments, coastal systems
P.M. Koroscil, Ph.D., Michigan, 1970—historical, Canada

UNIVERSITY OF BRITISH COLUMBIA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1923
GRADUATE PROGRAM FOUNDED: 1947
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 9/1/14-8/31/15: 128 Bachelors, 12 Masters, 15 Ph.D.
STUDENTS: 13 Minors, 487 Majors, 39 Masters, 73 Ph.D.
HEAD: Marwan Hassan
DEPARTMENT ADMINISTRATIVE ASST: Connie Cheung

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Advisor, Department of Geography, 1984 West Mall, University of British Columbia, Vancouver, British Columbia, Canada V6T 1Z2. Telephone (604) 822-2663. Fax (604) 822-6150.
E-mail: connie.cheung@geog.ubc.ca (Administrative Enquiries); gradprog@geog.ubc.ca (Graduate Enquiries).
Internet: www.geog.ubc.ca.

PROGRAMS AND RESEARCH FACILITIES: M.A., M.Sc., Ph.D. Programs: The UBC Department of Geography offers three undergraduate programs; two BA programs (Human Geography and Environment and Sustainability) and one BSc program (Geographical Biogeosciences). We also offer a Minor and an Honours option under the Human Geography program.

1. The Environment and Sustainability program offers an integrated understanding of physical, ecological, economic, socio-cultural and political systems, as they shape the world and influence life. Finally, Geographical Biogeosciences, also known as Physical Geography, is fundamentally concerned with the interactions between the Earth's biosphere and its atmosphere, hydrosphere, and geosphere. The program emphasizes the environmental consequences of global change and field-based research.

2. Programs in *Biogeosciences* have a strong natural science emphasis. They focus on physical and ecological systems at or close to the earth's surface, and the interaction of these systems with people. The specialization options include: Biogeography (forest and plant ecology; Arctic environments); Climatology (air pollution; meteorology; mesoscale modeling; urban climatology, climate change, biogeochemistry); GIS and remote sensing; Geomorphology (landscape evolution, watershed geomorphology; hillslope geomorphology and mass movements; fluvial sediment transport, fluvial geomorphology and river ecology); Hydrology (surface water, snow hydrology; water quality, energy and mass balance).

3. The Human Geography program concentrates on four main areas of study: Cultures and Places, Cities and Globalization, Nature and Society, and Research and Methods, across the geographic regions of Canada, East and Southeast Asia, the Middle East, Europe, Africa and Latin America. It explores the connections between human geography and political economy, social theory, cultural studies, and pursue the implications for interpreting changes in past and present landscapes. Major areas of specialization are: Economic Geography (Marxist and post-Marxist theories of the space-economy; analytical modelling; development theory; industrial restructuring and technological change); Feminist Geography (gender, sexuality and geography); Historical Geography (environmental history, colonialism and imperialism, urbanization, with a particular focus on North America (especially Canada), Europe, Latin America, East and Southeast Asia and Australasia; Social and Cultural Geography (international migration; popular culture and the geography of everyday life; ethnicity-race, class, and gender; consumption, place, and landscape). Work in these fields often feeds into a strong general interest in Urban Geography (urban systems, urban growth and restructuring, social and economic change, with a particular focus on North America and Asia) and intersects with work in Environmental Geography (environmental sustainability, environmental policy, water use and management, political ecology, community development) Programs in *Regional Geography* focus upon the following areas: Canada (especially Western Canada); Asia and the Pacific Rim (especially East and Southeast Asia); Russia and Eastern Europe; and Latin America (especially Mexico).

The Department participates actively in many interdisciplinary programs: Asian Studies, Community and Regional Planning, Comparative Literature, Hydrology, International Relations, Remote Sensing, Resource Management Science, Sustainable Development, Urban Studies, and Women's Studies. Field studies include ongoing projects in the Western Arctic and Cordilleran regions of Canada and special projects in Latin America and Asia.

A guide to graduate studies in Geography is available at this website: http://www.geog.ubc.ca/graduate/

Other Facilities - In department: extensive map and air photo holdings of B.C.; geomorphological, biogeographical, and climatological laboratories; modern computer network and GIS laboratories; office space for graduate students. In university: second largest library in Canada.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Academic Plan. Academic year, September 1 - August 31. Terms: September 1 - December 31, January 1 - April 30, and May 1 – August 31.

Admission Requirements. The Honours program required an average of 72%. Graduate applicants must meet the requirements as outlined at http://www.geog.ubc.ca/graduate/prospective-students/how-to-apply/. Applicants from related fields will be considered.

Financial Aid. Scholarships: UBC Graduate Support Initiatives are available for superior students and all applicants are automatically considered for these scholarships. The University of British Columbia also provides some Four Year Doctoral Fellowships (4YF). Under this program, UBC ensures its best students are provided with financial support of at least $22,000 per year for the first four years of their PhD studies and the first two years of their Master degree studies.

NSERC, SSHRC, and Commonwealth Fellowships are tenable at UBC. Students should consult these organizations' web-sites for application procedures. Teaching assistantships with competitive stipends are available from September to April.

FACULTY:
Karen J. Bakker, Ph.D., Oxford, 1999, Professor, Canada Research Chair—environmental; development; water
Trevor J. Barnes F.R.S. C; Ph.D., Minnesota, 1983, Professor and Distinguished University Scholar—economic, urban, history of geography

Loch Brown, Ph.D., Sussex, 2007, Instructor—development, collective action, associational dynamics, political ecology, West Africa

Andreas Christen, Ph.D., Basel, 2005, Associate Professor—land-atmosphere interactions; carbon cycle; urban climatology

Jessica Dempsey, Ph.D. British Columbia, 2011, Assistant Professor—political ecology, economic geography, feminist science studies, and increasingly, green finance

Simon D. Donner, Ph.D., Wisconsin, 2002, Associate Professor—climatology, biogeochemistry, hydrology, aquatic ecology, climate policy

Brett C. Eaton, Ph.D., British Columbia, 2004, Associate Professor—fluvial geomorphology, sediment transport, aquatic habitat, impacts of hydropower generation

David W.C. Edgington, Ph.D., Monash, 1986, Professor—economic, urban economic, Japan, Asia Pacific

Matthew D. Evenden, Ph.D., York, 2000, Professor—environmental history, historical, water and Canada

James F. Glassman, Ph.D., Minnesota, 1999, Professor—development, third world urbanization, economic, political, Southeast Asia

Derek Gregory, F.B.A.; F.R.S.C.; Ph.D., Cambridge, 1981, Peter Wall Distinguished Professor—political and cultural geographies of late modern war, especially in the Middle East and Afghanistan-Pakistan; histories/geographies of bombing

Marwan Hassan, Ph.D., Jerusalem, 1989, Professor and Head—fluvial geomorphology, ecogeomorphology, landscape evolution, water resources

Greg Henry, Ph.D., Toronto, 1987, Professor—plant ecology, tundra ecosystems, biogeography

Sally A. Hermansen, M.A., Queens, 1984, Senior Instructor—cartography, geographic information science, remote sensing

Dan Hiebert, Ph.D., Toronto, 1987, Professor—urban, immigration, Canada

Sarah Hunt, Simon Fraser, 2014, Assistant Professor—legal geography and critical Indigenous studies of law, justice, violence, resistance in neocolonial relations

Brian Klinkenberg, Ph.D., Western Ontario, 1988, Professor—geographic information science, biodiversity informatics, medical biogeography

Michele Koppes, Ph.D., Washington, 2007, Assistant Professor—Quaternary geomorphology, glaciology, paleoclimate reconstruction, alpine and polar regions

Merje Kuus, Ph.D., Syracuse, 1999, Professor—political, geopolitics, policy, contemporary Europe

Philippe A. Le Billon, Ph.D., Oxford, 1999, Professor—war, disasters, development, political geography, Africa and Southeast Asia

David F. Ley, F.R.S.C.; Ph.D., Pennsylvania State, 1972, Professor, Canada Research Chair—immigration, gentrification, housing markets, urban social geography

Ian McKendry, Ph.D., Canterbury, 1985, Professor—air pollution meteorology, aerosol science, synoptic climatology

Siobhán R. McPhee, PhD, Dublin, 2012, Instructor—labour geography, migration, workplace inequalities, emerging global cities, Ireland, Middle East

R. Dan Moore, Ph.D., Canterbury, 1984, Professor—forest hydrology, hydroclimatology, snow and glacier hydrology, riparian processes, physical water quality

Jamie Peck, AcSS, Ph.D., Manchester, 1988, Professor and Canada Research Chair in Urban and Regional Political Economy—economic geography; urban and regional restructuring; labor studies; government policy and statecraft; economic regulation and governance

Geraldine Pratt, Ph.D., British Columbia, 1984, Professor—feminist geography; Filipino transnationalism; geographies of film, performance

Juanita R. Sundberg, Ph.D., Texas, 1999, Associate Professor—feminist geography; politics of conservation; Latin America; United States-Mexico border

Jennifer L. Williams, Ph.D., Montana, 2008, Assistant Professor—biogeography, population ecology, climate change and plant population dynamics, spread of populations through heterogeneous landscapes

Elvin K. Wyly, Ph.D., Minnesota, 1995, Professor—urban; social policy; quantitative methods; housing

Graeme Wynn, F.R.S.C.; Ph.D., Toronto, 1974, Professor—historical, environmental, Canada, New Zealand

EMERITI FACULTY:

Michael J. Bovis, Ph.D., Colorado, 1974, Associate Professor Emeritus—geomorphology, landslides

Michael Church, F.R.S.C.; Ph.D., British Columbia, 1969, Professor Emeritus—geomorphology

Richard Copley, M.A., UC, Berkeley, 1961, Senior Instructor Emeritus—cultural/historical, East Asia

Ken Denike, Ph.D., Pennsylvania, 1973, Assistant Professor Emeritus—urban, quantitative methods, transportation

R. Cole Harris, O.C.; F.R.S.C.; Ph.D., Wisconsin, 1964, Professor Emeritus—historical, Canada

David M. McClung, Ph.D., Washington, 1974, Professor Emeritus—snow and avalanche science and engineering

Terry G. McGee, Ph.D., Wellington (New Zealand), 1969, Professor Emeritus—Third World cities, East and Southeast Asia

Margaret E. A. North, M.A., Kansas, 1961, Senior Instructor Emerita—plant geography

Robert N. North, Ph.D., British Columbia, 1968, Associate Professor Emeritus—economic development, former USSR and its successor nations

Tim R. Oke, O.C.; F.R.S.C.; Ph.D., McMaster, 1967, Professor Emeritus—climatology (urban and micro)

Alfred H. Siemens, Ph.D., Wisconsin, 1964, Professor Emeritus—cultural, Latin America

H. Olav Slaymaker, Ph.D., Cambridge, 1968, Professor Emeritus—geomorphology/hydrology, mountain environments

John K. Stager, Ph.D., Edinburgh, 1962, Professor Emeritus—Canadian Arctic

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

GEOGRAPHY PROGRAM
DATE FOUNDED: University opened in September 1994
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 9/1/14 – 8/31/15: 4 Bachelors, 4 Masters, 2 Ph.D.
STUDENTS IN RESIDENCE: 8 Masters, 6 Ph.D.
CHAIR: Catherine Nolin
DEPARTMENT ADMINISTRATIVE ASST: Michelle Keen

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Chair, Geography Program, UNBC, 3333 University Way, Prince George, BC, Canada, V2N 4Z9.
Telephone (250) 960-5832. Fax (250) 960-6533.
E-mail: catherine.nolin@unbc.ca.
Internet: http://www.unbc.ca/geography/.

PROGRAMS AND RESEARCH FACILITIES: Geography offers undergraduate degrees (BA, BSc), minors in physical geography, human geography, geomorphology and GIS, and graduate degrees (MA, MSc, MNRES, PhD) in Natural Resources and Environmental Studies (NRES - GEOG). We emphasize an interdisciplinary academic approach with foci on cold environments, the Canadian and circumpolar North, First Nations/indigenous issues, community development in rural and remote places, health geography and international studies. An active co-operative education program

enables further practical experience for students, while Geography offers overseas and local field schools. UNBC has complete wet and dry lab facilities, GIS lab, High Performance Computing lab, and a state-of-the-art Social Sciences lab on campus; off-campus facilities include a River Research Center and two Research Forests. Please visit website for more information on facilities and equipment, as well as on faculty research and graduate opportunities.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: Information on admission requirements and application forms for admission are available from the Registrar. Program information can be obtained from the Chair.

FACULTY:

Gail Fondahl, Ph.D., Berkeley, 1989, Professor—local criteria and indicators of sustainable forest co-management; indigenous land rights and land claims in Russian North; Arctic social indicators; community-based research

Greg Halseth, Ph.D., Queen's, 1993, Professor and Canada Research Chair in Rural and Small Town Studies—community development/community economic development; restructuring in resource dependent towns; rural and regional development

Neil Hanlon, Ph.D., Queen's, 1998, Professor—health service delivery in rural and remote locations; social determinants of health in rural and remote BC; impacts of distributed medical education programs on their host communities; social and geographical determinants of health

Christine Jackson, B.Ed., 1995, Western Ontario, B.Sc., UBC, 1987, Senior Lab Instructor Earth Sciences—enhancing student experiences in environmental education, physical environment

Zoë Meletis, Ph.D., Duke, 2008, Associate Professor—tourism development, amenity migration, and aesthetics; development and change in Down East, North Carolina; ecotourism in Tortuguero, Costa Rica; participant perceptions of community gardening

Brian Menounos, Ph.D., UBC, 2002, Professor—past and present glacier fluctuations; paleo-environmental reconstruction; sediment budgeting and sediment transport in mountain environments

Catherine Nolin, Ph.D., Queen's, 2000, Associate Professor—qualitative methods; social geography of migration in rural and remote British Columbia; social impacts of Canadian mining in Guatemala; impunity, 'development', and political violence in Guatemala

Ellen Petticrew, Ph.D., McGill, 1989, Professor—landscape scale linkages between terrestrial and aquatic systems; bio geomorphology: influence of organisms on physical attributes of aquatic systems; landscape disturbances on sediment transfers (fire, forest harvesting, agriculture); ecological implications of transfers and storage of fine sediment in rivers and lakes; fine sediment morphology and composition (flocculation processes); lake restoration and community stewardship

Roger Wheate, Ph.D., St. Andrews, 1996, Associate Professor—cartographic design incorporating remote sensing and GIS processing; glacier mapping from remote sensing in northern BC

ASSOCIATED FACULTY AT UNBC:

Ping Bai, M.Sc., Windsor, 1996, Senior Lab Instructor GIS—computer science; GIS; problem solving and modeling in forest, geography, social science; software development in graphic user interface design; web development

Scott Emmons, B.Sc., UNBC, 1998, Senior Lab Instructor, GIS—Technologies emerging in geomatics to provide a network of spatially linked data sharing nodes connecting communities in Northern British Columbia

Peter Jackson, Ph.D., UBC, 1993, Professor—analytical and numerical wind-field modeling; meso- and synoptic scale meteorology; air pollution

ADJUNCT FACULTY:

José Pablo Baraybar, M.A., Grenoble, 2012—forensic anthropology; criminal justice; memorialization

Matthew Beedle, Ph.D., UNBC, 2013—glaciology; climatology; remote sensing; science communication

Eric Grunsky, Ph.D., Univ. of Ottawa, 1988—remote sensing and image processing; statistical/numerical methods in the Earth Sciences

Sarah de Leeuw, Ph.D., Queen's, 2007—Indigenous health; cultural geography; post-colonialism

Sean Markey, Ph.D., SFU, 2003—sustainable community development; resource communities; social economy; regional development; rural development

Marleen Morris, M.Sc., Oxford, 2009—public administration; community development; social policy

John Rex, Ph.D., UNBC, 2009—Pacific salmon ecology; sediment flocculation; nutrient cycling

UNIVERSITY OF THE FRASER VALLEY

DEPARTMENT OF GEOGRAPHY and the ENVIRONMENT
DATE FOUNDED: 1992
DEGREES OFFERED: B.A., Geography; B.Sc., Physical Geography
BA GRANTED 5/1/14-4/30/15: 33 Majors, (3 extended), 1 Honours
BSc GRANTED 5/1/14-4/30/15: 9 Majors, 0 Minors 0 Honours
STUDENTS IN RESIDENCE BA: 90 Majors, 24 Minors (including 20 extended), 1 Honours
STUDENTS IN RESIDENCE BSc: 17 Majors, 5 Minors (including 1 extended) Physical Geography Honours (0)
HEAD: Steven Marsh
DEPARTMENTAL ADMINISTRATIVE ASSISTANT: Myra Hughes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Steven Marsh, Head, Department of Geography and the Environment, University of the Fraser Valley, 33844 King Rd., Abbotsford, British Columbia, V2S 7M8, Canada. Telephone (604) 504-7441, Ext. 4723. Fax (604) 504-3619. E-mail: steven.marsh@ufv.ca
Internet: www.ufv.ca/geography/.

PROGRAMS: UFV Geography and the Environment (GATE) believes students learn best in applied as well as classroom settings, and integrates field study, laboratory experience, geomatics, and regional study into its programs. The department offers a major, Honours major, extended minor, and minor in Geography (BA) and a major, Honours major, and minor Physical Geography (BSc). Students can also complete a certificate in GIS. The department is also home to a BA degree in Global Development Studies. Co-operative Education, Work Study and Research Assistantships options are available. Faculty and students conduct research and study in Canada and internationally. Faculty run 5-6 day field schools (*Adventures in Geography*) in Western Canada and the Pacific Northwest, as well as 2-3 week study tours in the western US, India, and Mexico. Internship students also complete course and funded and unfunded placements in India, Tanzania, China, and Canada.

The BA major program encompasses a broad range of subjects that characterize the modern discipline of Geography. The first two years of the program provides an introduction to human, physical, regional, and technical geography. The latter two years allow for greater

specialization in one of these sub-fields. BA students usually pursue a concentration in *Environmental Science*, *Global Studies*, *and/or Urban Studies and Planning,* and concentrations can be completed as part of an Honours degree. Field trips, community-based research, and lab science are emphasized. Directed studies and directed readings options are available.

The BSc major program focuses on four key sub-fields of Physical Geography: biogeography/ soils, climatology and hydrology, geomorphology, and water quality, in addition to technical geography courses in GIS, remote sensing, and modeling. Students engage in laboratory and field-based data collection, and many pursue additional research experience in one of the department's research facilities.
Interdisciplinary programs: Geography faculty are involved in research and degree initiatives in Agriculture and Food Security, Borderlands Studies (with Western Washington University), GIS, Global Development, Environmental Studies, Indigenous Studies, Indo-Canadian Studies, Migration and Citizenship, Peace Studies, Science Communications, and the Woods Hole World Rivers Group.

RESEARCH FACILITIES: The UFV Department of Geography and the Environment is home to the Luminescence Dating Lab, the Paleoecology Lab, and Watershed Research Lab. A GIS and Food Security studies lab is planned. The Department maintains a comprehensive classroom-oriented mineral, map and aerial photo collection, a student computer lab, full capacity GIS software and hardware, current meters, surveying and GPS equipment, water quality testing probes, and weather monitoring and soils analysis instruments.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Three terms: Fall (Sept-Dec); Winter (Jan-Apr), and condensed and full-term courses in Summer (May-Aug) term. Courses offered at multiple campuses: Abbotsford, Chilliwack, and Mission, BC, and in Chandigargh, India. Degree: 120 credits, minimum 2.0 CGPA; Honours: 120 credits, minimum 3.33 CGPA. Requirements for entry into the BA and BSc programs vary. Financial assistance, including loans, bursaries, scholarships, and work-study, is available. Information on financial aid and criteria for program entry are found in the UFV calendar, available at: www.ufv.ca/home.htm.

FACULTY:

Carolyn Atkins, MSc., Saskatchewan, 1994, Lab Instructor—Physical Geography

John Belec, Ph.D., Queens, 1988, Associate Professor—Urban Studies, Housing Studies, Canada, Borderlands

Cherie Enns, Ph.D. Candidate, Darmstadt University (Germany), Associate Professor—New Urbanism, Community and Sustainable Development, Children and the City, History of Planning

Garry Fehr, Ph.D., Guelph, 2007, Associate Professor —International Development, Political Ecology, Social/ Cultural Geography

Claire Hay, M.Sc., Alberta, 1998, Associate Professor—Geomorphology, Geographic Techniques

Jonathan Hughes, Ph.D., Simon Fraser, 2002, Associate Professor—Biogeography, Paleoecology, Dendrochronology, Paleoseismology

Olav B. Lian, Ph.D., Western Ontario, 1997, Associate Professor—Quaternary Sedimentology, Stratigraphy, Paleoenvironments, Geochronology, Paleoecology of Non-glacial Intervals, Paraglacial Sedimentation, Loess-Paleosol Sequences, Holocene Aeolian Activity

Steve Marsh, M.Sc., Regina, 1988, Associate Professor—Climate Change, Water Quality, Environmental Studies

Kathy Peet, BSc, University of Northern British Columbia, 1997, Lab Instructor—Physical Geography

Michelle J. Rhodes, Ph.D., Simon Fraser, 2002, Associate Professor —Resource/ Economic Geography, Geopolitics, Housing Studies, Tourism, Environmental Studies

Scott Shupe, Ph.D., Arizona, 2000, Associate Professor—Geographic Information Science (GIS, Remote Sensing), Land Use/ Land Cover Mapping and Monitoring, Natural Resources, Arid Lands

EMERITUS FACULTY

David Gibson, M.A., University of California-Davis, 1969, University College Professor Emeritus—Cultural Geography, Mexico

CANADA RESEARCH CHAIR (TIER II)

Lenore Newman, Ph.D., York, 2004, CRC in Food Security and Environment—Canada's Food Cultures/ Systems, Agriculture Lands Conservation, Food and the City, Sustainable Food Systems

ADJUNCT FACULTY

John Clague, Ph.D., British Columbia, 1973—Natural Hazards, Quaternary Geology

Lionel Pandolfo, Ph.D., Yale, 1992—Synoptic Climatology, Climate Variability, Modeling

Bernhard Puecker-Ehrenbrink, Ph.D., Max Planck Institute (Germany), 1994—Global Rivers Project (WHOI), Geochemistry

Dan Selbie, Ph.D., Queen's, 2008—Fisheries (salmon) and Aquatic Ecology, Paleolimnology

POST-DOCTORAL FELLOWS

Christina Neudorf, PhD., Wollongong (Australia), 2012, Hakai Scholar—Luminescence Dating, Geochronology

Lisa Powell, PhD., University of Texas-Austin, 2013—Agricultural land conservation, resource communities

UNIVERSITY OF VICTORIA

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1949
GRADUATE PROGRAM FOUNDED: 1966
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 1/1/15-12/31/15: 165 Bachelors, 14 M.Sc., 4 M.A., 5 Ph.D.
STUDENTS IN RESIDENCE: 600 Majors, 46 Masters, 58 Ph.D.
NOT IN RESIDENCE: 32 Masters, 23 Ph.D.
CHAIR: Johannes Feddema
DEPARTMENT ADMINISTRATIVE OFFICER: Kathie Merriam

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Chair, Department of Geography, University of Victoria, PO Box 1700, Victoria, British Columbia, Canada V8W 2Y2.
Telephone (250) 721-7327, Fax (250) 721-6216.
Email: geoginfo@uvic.ca.
World Wide Web: http://www.uvic.ca/socialsciences/geography/

PROGRAMS AND RESEARCH FACILITIES: Geography faculty members conduct research all over the world, from re-introducing tigers into south China through to empowering the "binners" in Victoria, BC and Sao Paulo, Brazil. All faculty members have vibrant, active research programs with varied socially and scientifically relevant foci, including: climate change impacts and adaptations; coastal zone; community-based research; geomatics; geomorphology and quaternary science; health and society; hydro-climatology; international development; landscape ecology, biogeography, and spatial ecology; marine aquaculture; protected areas planning and management; urban planning; and *Arctic sea ice variability*.

Our research facilities are clustered around various labs in our building, including: Applied Conservation Science; Coastal and Ocean Resources Analysis Group; Coastal Erosion and Dune Dynamics; Community-based Research Lab; Climate; Hyperspectral-LiDAR Research Group; Ice Covered Ecosystems Remote Sensing; Landscape and Wildlife Ecology; Marine Protected Areas Research Group Lab; Population Data BC; Population Health; PPV Bolivia Project; Remote Sensing and SPECTRAL; Spatial Collaboration and Visualization; Spatial Pattern and Analysis Research; Spatial Sciences Research; University of Victoria Tree Ring Lab; Whale Research Lab; and the Water & Climate Impacts Research Centre, which was established in September 2002 by the Department of Geography at UVic. The W-CIRC is a result of an agreement between UVic and the National Water Research Institute (NWRI) of Environment Canada. Research at the W-CIRC focuses on hydrologic and ecological impacts of atmospheric change and variability. Specific examples of W-CIRC research include floods and droughts, groundwater systems, river and lake ice, forest hydrology, lake heat and energy budgets of lakes, alpine and reservoir water supplies, and aquatic ecology. More details on specific research programs and researchers can be found on the website (http://www.uvic.ca/socialsciences/geography/research/index.php).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: At the University of Victoria there are two regular semesters: September-December and January-April. 'Summer Session' comprises the period May-August.

The Geography Department offers undergraduate courses leading to B.A. and B.Sc. degrees, with a choice of General, Major, and Honours programs for both. For the Major and Honours degrees, students may choose concentrations in five core areas: Coastal Studies, Earth Systems, Geomatics, Environment and Sustainability, and Urban & Development Studies. These core areas of study reflect the teaching and research strengths of our Faculty members. A B.A. Minor in Coastal Studies is available to students from the general university community who may wish to augment their primary degree with a more concentrated area of geographical study. We also offer a minor in Geographic Information Technology, which enables students to learn how to apply GIS, satellite imagery, and maps to questions of interest to them. The minor is ideal for students majoring in Anthropology, Biology, Earth and Ocean Sciences, Economics, and History. The Department of Geography, in conjunction with the School of Earth and Ocean Sciences, also offers a Combined B.Sc. Major or Honours Degree aimed at students whose interests span the fields of Physical Geography and Earth Sciences. These degrees are intended to prepare students for a professional designation. Also, in conjunction with the Department of Computer Science, the Department of Geography offers a combined B.Sc. Major Degree for students who are interested in the fields of Computer Science, Geography, and Geomatics. The program intends to offer students a broad and comprehensive foundation in a number of key areas including cartography, geographic information sciences, remote sensing, surveying, statistics, and fundamentals of programming, algorithms, database systems, computer graphics, and computer geometry. There are also Geography Co-operative Education and Work Experience programs that enable students to combine work experience in related fields with their academic training.

Further information regarding undergraduate admission requirements may be obtained from the University's website at: http://www.uvic.ca/. In addition to scholarships, financial information on loans, grants or bursaries is available through the University's website. The Geography department's main website can be viewed at: http://geography.uvic.ca/.

GRADUATE: The Department of Geography at the University of Victoria offers M.A., M.Sc., and Ph.D. degrees. A B.A. or B.Sc. degree from a recognized university, or its equivalent, with a 'B+' average (75% or upper 2nd class) for the last 2 years is generally considered a minimum requirement for admission. Graduate degree programs at UVic Geography are research-oriented (i.e., thesis based). Course-based degrees are not offered. Applicants are strongly encouraged to contact potential supervisors via email or phone to discuss research interests and potential opportunities. Faculty research interests are listed on the departmental website. Students whose native language is not English are required to provide English language proficiency test scores (TOEFL > 575 or IELTS > 6.5) to demonstrate language competency proficient to proceed with graduate studies. Overseas students should not make provision to travel to Canada until they have been admitted officially by the Faculty of Graduate Studies and have evidence of financial resources to allow them to pursue their studies. The required residency for a Master's degree is 2 academic years and 3 years for a Ph.D. degree. Program entry is usually September for the Winter Session (divided into two terms: September-December and January-April). Students may also enter the program in January or May.

University of Victoria Fellowships of up to $17,500 (M.A., M.Sc.) and up to $20,000 (Ph.D.) for a 12-month period may be awarded on entry to the program to selected students of high academic standing who are registered full-time. Most students are offered baseline funding from a variety of sources, including: Scholarships, Fellowships, Entrance Awards, Research Assistantships, and Teaching Assistantships. Additional summer stipends are also available. Typically, academic supervisors cover research expenses from their research grants. In many cases, students also work closely with supervisors to secure additional external funding. The Department hosts scholars across the tri-council of major Canadian funding agencies (NSERC, SSHRC, CIHR) and scholarships may be awarded to high-calibre Canadian or landed-immigrant students on application. More information on admissions, tuition, awards, and other requirements is available online from the Faculty of Graduate Studies (web.uvic.ca/gradstudies). Further details on the Geography Graduate School program at UVic is available at: http://www.uvic.ca/socialsciences/geography/graduate/index.php.

FACULTY:

David Atkinson, Ph.D., Ottawa, 2000, Associate Professor—environmental forcing of coastal zones, analysis of weather data for extreme events

Rosaline Canessa, Ph.D., Victoria, 1997, Associate Professor—coastal zone management, GIS decision making

Denise Cloutier, Ph.D., Guelph, 2000, Associate Professor—healthy aging in rural populations, health and social service delivery models, vulnerable populations, social isolation and impacts of restructuring

Maycira Costa, Ph.D., Victoria, 2000, Associate Professor—remote sensing, primary productivity, coastal waters, benthic habitats, wetlands

Teresa Dawson, M.A., Oxford, 1992, Assistant Teaching Professor—teaching and learning

Philip Dearden, Ph.D., Victoria, 1978, Professor—protected areas, conservation, marine, Southeast Asia

David Duffus, Ph.D., Victoria, 1988, Associate Professor—conservation, wildlife, marine

Johannes Feddema, Ph.D., Delaware, 1991, Professor—simulating human land cover change in Earth System models, water balance climatology, urban climatology

Mark S. Flaherty, Ph.D., McMaster, 1985, Professor—small-holder aquaculture, food security, poverty alleviation in developing nations

Jutta Gutberlet, Ph.D., Tübingen, 1990, Professor—local development and resource co-management, sustainable livelihoods, public policies, informal and organized recycling, participatory action-oriented research, Brazil

Michael Hayes, Ph.D., McMaster, 1989, Professor—social geographies of health from a life-course perspective, health

inequities and urban structure, social gradients in health outcomes, disability and public policy

Dennis E. Jelinski, Ph.D., Simon Fraser, 1990, Associate Professor—landscape ecology, biogeography, wildlife management, conservation biology

C. Peter Keller, Ph.D., Western Ontario, 1985, Professor—GIS: decision making, cartography, tourism

Michele-Lee Moore, Ph.D., Wilfrid Laurier, 2011, Associate Professor—global/local water governance, river basin management, social-ecological resilience, social innovation; transnational networks

Trisalyn Nelson, Ph.D., Wilfrid Laurier, 2005, Professor—spatial analysis and GIS, spatial pattern analysis, spatial analysis of epidemic mountain pine beetle infestations

K. Olaf Niemann, Ph.D., Alberta, 1988, Professor—remote sensing, geomorphology

Ian J. O'Connell, Ph.D., Victoria, 2003, Assistant Teaching Professor—geomatics

Aleck Ostry, Ph.D., British Columbia, 1998, Professor—health geography, social determinants of health, geography of food security and nutrition, Aboriginal people's health

Cameron Owens, ABD, Simon Fraser, 2010, Assistant Teaching Professor—social theory and politics in relation to urban and regional development, land use planning, and environmental assessment

Terry Prowse, Ph.D., Canterbury, 1981, Professor—cold regions hydrology, impacts of climate change on water resources, hydro-ecology of river systems, hydro-climatology

CindyAnn Rose-Redwood, Ph.D., Penn State, Assistant Teaching Professor—urban social geography, immigrant geographies, geographies of higher education

Reuben Rose-Redwood, Ph.D., Penn State, 2006, Associate Professor—urban geography, cultural landscape studies, historical cartography, history of geographical thought

Randall Scharien, Ph.D., Calgary, 2010, Assistant Professor—Arctic sea ice variability and climate change, remote sensing with synthetic aperture radar, radar polarimetry

Dan J. Smith, Ph.D., Alberta, 1985, Professor—geomorphology; dendrochronology

Simon Springer, Ph.D., British Columbia, 2009, Associate Professor—anarchist geographies, geographies of violence and non-violence, political and development geographies, political economy of Southeast Asia

Ian J. Walker, Ph.D., Guelph, 2000, Professor—sediment transport and erosion, Aeolian, coastal, desert, beaches, dunes

MANITOBA

BRANDON UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1962
DEGREES OFFERED: B.A., B.Sc.
GRANTED 9/1/13-8/31/14: 4 B.A, 5 B.Sc.
MAJORS: 34
CHAIR: D. Eberts

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Brandon University, 270 18th Street, Brandon, Manitoba, Canada, R7A 6A9. Telephone (204) 727-9677 (Faculty of Science Administrative Assistant). Fax (204) 728-7346 (specify for Department of Geography). E-mail: geography@brandonu.ca. Internet: www.brandonu.ca/Geography.

PROGRAMS AND RESEARCH FACILITIES: The Department offers 3-year B.A. and B.Sc. degrees, 4-year B.A. and B.Sc. degrees, 4-year B.A. and B.Sc. honours degrees, and 4-year B.A. and B.Sc. Degrees with Environmental Studies and Geomatics Concentrations. The Department also participates in a 2+2 articulation agreement with Assiniboine Community College. ACC graduates can transfer directly into the third year of a B.Sc. or B.A. in either the Environmental Studies or Geomatics Concentration.

The Department is located in the Brodie Science Centre. The department houses the B.U. Department of Geography Centre for Geomatics and oversees operation of the John Tyman Map Library. The Department is a depository for the Canadian National Topographic Map Series and has an extensive collection of air photographs of southwestern Manitoba.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Brandon University operates on a semester system. In order to obtain a 3-year major in geography a student has to take a minimum of 30 credit hours out of a total of 90 credit hours for the degree. The 4-year degree requires a minimum of 48 credit hours in geography from a total of 120. Students are required to take a group of common core introductory, methods and techniques courses followed by either the B.A. or B.Sc. stream.

Admission to the faculties of arts and science is by graduation from a Manitoba high school, or the equivalent for other provinces or countries. There is also the possibility of mature admission or special admission for students who have not followed the traditional education route--in these cases the admission requirements are more flexible. The University offers a number of entrance scholarships and bursaries to applicants from Canadian high schools. Also, general loan funds are available to Brandon University students, of which the most frequently used is the Canada Student Loan Fund.

FACULTY:

Derrek A. Eberts, Ph.D., York, 2001 Associate Professor—economic restructuring, work organization and technological change, rural diversification, tourism, the brewing industry

Rachel V. Herron, Ph.D., Queens, 2015, Assistant Professor—rural health, aging, dementia, care and caregiving, voluntarism, and gender and health

Wenonah L. Van Heyst, M.GIS, Calgary, 2001, Instructional Associate—GIS, remote sensing, physical geography

Christopher D. Malcolm, Ph.D., Victoria, 2003, Associate Professor—biogeography, wildlife management, wildlife ecotourism, human dimensions

R. Douglas Ramsey, Ph.D., Guelph, 1998, Affiliated Professor—rural development, agriculture, popular music

Pete Whittington, Ph.D., University of Waterloo. 2013—Assistant Professor- physical geography, hydrology, soil physics, wetlands

Dion J. Wiseman, Ph.D., Indiana State, 1997, Associate Professor—Physical geography, GIS, remote sensing, cartography

PROFESSORS EMERITUS:

John C. Everitt, Ph.D., UCLA, 1972, Professor—urban, behavioural, cultural, aging, Commonwealth Caribbean

Rod A. McGinn, Ph.D., Manitoba, 1979, Professor—climatology, hydrology, river mechanics, glacial geomorphology

ONTARIO

BROCK UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1964
DEGREES OFFERED: B.A., B.Sc., M.A.
GRANTED 9/1/14-8/31/15: 43 Bachelors
MAJORS: 190
CHAIR: Christopher Fullerton
DEPARTMENT ADMINISTRATIVE Coordinator: Virginia Wagg

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, Brock University, St. Catharines, Ontario, Canada L2S 3A1.
Telephone (905) 688-5550, ext. 3484. Fax (905) 688-6369.
E-mail: geography@brocku.ca. Internet: www.Brocku.ca/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers programs leading to an M.A. degree and B.A. and B.Sc. degrees at the Honours and pass levels, and participates in a number of combined major programs In addition, the Department offers four-year Honours programs leading to either a BA or BSc degree in Geography with a Concentration in Geomatics; a five-year Honours degree in Geography concurrently with a B.Ed. degree; and a four-year Honours degree concurrently with a co-op work program. The discipline of geography has a broad scope and combines elements of both the social and natural sciences. Two principal divisions of the subject exist-human geography and physical geography-linked by a common background, a mutual concern for humans and the environment and a body of related theory and methodology. Most courses emphasize structured labs and seminars in early years and progressively more independent work in later years, culminating in an optional Honours thesis in year 4. Field work features prominently in some courses. Physical laboratories and equipment are available for work in biogeography, climatology, geomorphology and soil science. Computer labs with geomatics software are also available for students interested in geographic information systems, remote sensing, surveying and digital mapping. The University Maps, Data and GIS Library contains an extensive collection of maps, atlases and geospatial datasets housed adjacent to the Geography Department.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan:* Undergraduate: two term system (September-December; January-April) with Spring Evening and Summer Day sessions. Admission requirement in Ontario is Grade 12 graduation or equivalent with 70% average or better. Bursaries and loans are available to qualified students. Information on such assistance may be obtained from the University Awards Office.

FACULTY:
Jeff Boggs, Ph.D., UCLA 2005, Associate Professor—economic geography, cultural industries, regional political economy
David Butz, Ph.D., McMaster, 1993, Professor—cultural, social geography, qualitative methods, music, Pakistan, road construction and social change
Daryl Dagesse, Ph.D., Guelph, 2006, Associate Professor—periglacial geomorphology, soil physics
Christopher Fullerton, Ph.D., Saskatchewan, 2004, Associate Professor—public transit, sustainable transportation, rural land use planning and community economic development, history of urban and regional planning in Ottawa
Hugh J. Gayler, Ph.D., British Columbia, 1974, Professor Emeritus—urban social, urban planning, rural-urban fringe development issues
Marilyne Jollineau, Ph.D., Waterloo, 2003, Associate Professor—geospatial approaches to vineyard management, wetland ecosystems, water resources management and environmental sustainability
Phillip Gordon Mackintosh, Ph.D., Queen's, 2001, Associate Professor—urban historical geography, reform and planning history, public space and infrastructure, bourgeois culture, historical newspapers, bicycling
John Menzies, Ph.D., PGeo, Edinburgh, 1976, Professor—geomorphology, glaciology, soil science, glacial
Catherine Jean Nash, Ph.D., Queen's, 2004, Associate Professor—social, cultural geography, urban studies and planning, feminist, lgbt, queer, trans issues
Michael Pisaric, Ph.D., Queen's, 2001, Associate Professor—biogeography, climate change, dendrochronology, paleolimnology, ecological disturbance, Arctic
Michael Ripmeester, Ph.D., Queen's, 1995, Professor—historical geography, cultural geography, historical geographies of First Nations, geographies of popular memory
Anthony B. Shaw, Ph.D., Western Ontario, 1981, Professor—climatology, meteorology, viticulture
Dragos Simandan, Ph.D., Bristol, 200, Professor—geographical reasoning, philosophy of the social sciences, social theory, economic geography, the psychology-geography interface
Kevin Turner, Ph.D., Wilfrid Laurier, 2013, Assistant Professor—hydrology, geomatics, paleolimnology, biogeography
Ebru Ustundag, Ph.D., York, 2005, Associate Professor—citizenship studies, urban geography, theories of space and nationalism, Ottoman Empire and Turkey

CARLETON UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES
DATE FOUNDED: 1949
GRADUATE PROGRAM FOUNDED: 1965
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 9/1/13-8/31/14: 86 Bachelors, 2 M.A., 8 M.Sc., 3 Ph.D.
STUDENTS IN RESIDENCE: 390 Majors, 13 M.A., 21 M.Sc., 25 Ph.D.
NOT IN RESIDENCE: M.A., M.Sc., Ph.D.
CHAIR: Doug King
DEPARTMENT ADMINISTRATIVE ASST: Natalia Fierro

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography & Environmental Studies, Carleton University, 1125 Colonel By Drive, Ottawa, Ontario, Canada K1S 5B6. Telephone (613) 520-2561. Fax (613) 520-4301.
E-mail: Chair_Geography@carleton.ca.
Internet: www.carleton.ca/geography.

PROGRAMS AND RESEARCH FACILITIES:
Undergraduate Programs
- BA Geography (3yr General; 4yr Honours); BA Geography with Concentration in Physical Geography (4yr Honours); BA Combined (4yr Honours)
- BSc Physical Geography (4yr); BSc Combined (4yr Honours)
- BA Geomatics (4yr Honours); BSc Geomatics (4yr Honours)
- BA Environmental Studies (3yr General; 4yr Honours)

Graduate Programs
The Department's M.A., M.Sc. and Ph.D. programs encourage students to integrate perspectives from the biophysical and social sciences.

M.A. research themes include: (1) *Society/environment interactions* – rural and resource development, environmental impact assessment, human response to environmental change, gender and environments, sustainable community; and (2) *Political economy of geographical change* – globalization, industrial and community restructuring, territorial identities, environmental geopolitics, environmental conflict and democracy, the developing world, cultures, resources, rural development, gender.

M.Sc. research themes focus on *Processes of environmental change* – cold regions, climate-ground interactions, soil resources, quaternary environments. Students may specialize in biogeography, hydrology, geomorphology, microclimatology, glaciology, and permafrost processes.

Geomatics research themes include: remote sensing, GIS, computer-assisted cartography, and spatial analysis. Geomatics applications to other thematic areas and disciplines can be taken either as an M.A. or a M.Sc. depending on research focus.

The Ph.D. program is defined in terms of the interaction of society and the natural environment in the context of global change. It is structured around two interacting fields: (1) the *geography of societal change* – global political economy, restructuring and the environment, feminist geographies; and, (2) the *geography of environmental change* – environmental processes and anthropogenic impacts, appraisal and societal management of environmental resources.

The research of the department is supported by specialized facilities including laboratories for Geocryology, Geomatics and Landscape Ecology, and Cybercartography. Carleton University's location in Ottawa provides access to more than 50 specialized libraries, including the National Library, National Archives, and Statistics Canada as well as to resources at the Canada Centre for Remote Sensing, Natural Resources Canada, and other government agencies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
M.A./M.Sc. programs: Admission requires at least B+ (77%) average in Honours Geography or equivalent program. Candidates with other qualifications may be accepted into a qualifying year. Fall term entry is the norm.

Ph.D. program: Admission requires at least A- (80%) average in a Master's Geography program or equivalent. Students commence their program in September.

Financial assistance: Graduate scholarships and assistantships for qualified students. Funding is available for two years at the Masters level and four years at the Ph.D. level for qualified students. The department and university also offer several awards and bursaries to assist with graduate studies.

A detailed list of faculty, their research interests and recent publications, and graduate funding, is available on our Web page (www.carleton.ca/geography).

MCMASTER UNIVERSITY

SCHOOL OF GEOGRAPHY AND EARTH SCIENCES
DATE FOUNDED: Geology 1905, Geography 1946
GRADUATE PROGRAM FOUNDED: Geology pre-1915, Geography 1954
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 09/01/2013-11/21/2014: 87 Bachelors
STUDENTS IN RESIDENCE: 42 Masters, 34 Ph.D.
DIRECTOR: Dr. Bruce Newbold
DEPARTMENT ADMINISTRATOR: Katherine Philp

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Admin, School of Geography and Earth Sciences, McMaster University, 1280 Main St. West, General Science Building - 206, Hamilton, Ontario, Canada L8S 4K1.
Telephone (905) 525-9140, ext.23535. Fax (905) 546-0463.
E-mail: geograd@mcmaster.ca.
Internet: www.science.mcmaster.ca/geo/

PROGRAMS AND RESEARCH FACILITIES: The School is in the Faculty of Science and is affiliated with the Faculty of Social Science. Its graduate program is built around diverse research interests in both physical and human geography and in geology. The fields of specialization are:

Hydrological Sciences, including climatology (surface energy; water and trace gas climatology especially in cold regions; surface climate especially in permafrost terrain); impacts of climatic change on energy, water, and trace gas fluxes; physical hydrology (cold regions hydrological research on snow, ice, permafrost, and northern wetlands); surface water and ground water interaction; statistical hydrology

Earth Surface Processes, including sedimentation processes and their impacts on environmental systems; paleoenvironmental reconstruction in glacial, Mediterranean and other terrains; geophysical methods

Geochemistry, including hydrological pathways, biochemical, and contaminant transport; wetland-atmosphere trace gas exchange; peatland development and human impacts on wetland hydrology and nutrient cycling, microbially mediated metal reactions, stable isotope techniques, paleo-environmental reconstruction

Environment and Health; geographic aspects of health promotion; issues in health and health care policy and planning; spatial relationships of health and environmental factors

Social Geography, including Political Economy *(*geography of the state; dependent populations; social housing; urban and regional development); Urban Historical Geography *(*the evolution of cities in the nineteenth and twentieth centuries; suburban development and housing in North America)

Spatial Analysis: the visual and numerical analysis of data at various spatial scales, including GIS, remote sensing, descriptive and inferential spatial statistics; Theoretical Urban Economic Geography (residential choice and intraurban migration); Regional Analysis *(*the relations between technical change and regional development; and inter-regional migration)

The School occupies major parts of two adjacent buildings, and offers graduate student office space; seminar rooms, and laboratories for work in physical geography and spatial analysis. Facilities include extensive laboratory and field equipment, and various field research sites. There is an extensive suite of GIS, statistical and remote sensing software available for student and research use. McMaster is a node on the SHARCnet supercomputer. The University Libraries (including

the Map Library), allied departments and Graduate Club are all within a few minutes walk across a pedestrian campus. Support staff provide technical and administrative assistance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission Requirements: A standing of Class I(A) or upper Class II(B plus) in previous academic work. Financial Aid: 1) National Science and Engineering Council Fellowships. 2) Social Science and Humanities Research Council of Canada, 3) Canadian Institutes for Health Research awards, 4) Ontario Graduate Scholarships, 5) University Scholarships, 6) Assistantships: Candidates for the Ph.D. without external scholarship will receive $12,342.00 Teaching Assistantship and $11,600.00 Department Scholarship; candidates for M.A. or M.Sc. without external scholarship will receive: $12,342.00 Teaching Assistantship and $9,308.00 Department Scholarship (plus increases for the next academic year). Assistantships entail 10 hours per week of teaching or research during the September-April academic year. Academic Plan: Year is identified into three terms: Sept. - Dec., Jan. - April, May - Aug.

FACULTY:

M. Altaf Arain, Ph.D., Arizona, 1997, Professor—climatology, hydrometeorology

Janok Bhattacharya, Ph.D., McMaster, 1989, Professor—sequence stratigraphy, 3D facies architecture, paralic and fluvial depositional systems

Joe I. Boyce, Ph.D., Toronto, 1997, Associate Professor—applied geophysics, sedimentary geology

Luc Bernier, Ph.D., McMaster, 2007, Assistant Professor—geomicrobiology, environmental geochemistry

Vera A. Chouinard, Ph.D., McMaster, 1987, Professor—urban political economy

Sean Carey, Ph.D., McMaster, 2000, Professor—cold weather

Paulin Coulibaly, Ph.D., Laval, 2000, Professor—water resources systems analysis and modeling (joint appointment with Civil Engineering)

Alan P. Dickin, D.Phil., Oxford, 1981, Professor—geology

Carolyn H. Eyles, Ph.D., Toronto, 1986, Professor—glacial sedimentology

Richard S. Harris, Ph.D., Queen's, 1981, *Professor*—social/political geography

Sang Tae Kim, Ph.D., McGill University, 2006, Associate Professor—Stable Isotopy Geochemistry

John MacLachlan, Ph.D, McMaster, 2011, Assistant Professor—advancement in classroom technologies and learning, glacial spatial distribution

Suzanne Mills, Ph.D., Saskatchewan, 2007, Associate Professor—gender, equity and unions, labour and the environment (joint appointment with Labour Studies)

Michael Mercier, Ph.D., McMaster, 2003, Assistant Professor—teaching and learning environment and methods, social geography

K. Bruce Newbold, Ph.D., McMaster, 1994, Professor—migration, immigration, medical

Maureen Padden, Ph.D., ETH, Zurich, Switzerland, 2001, Associate Professor—Environment Health & Geochemistry

H. Antonio Paez, Ph.D., Tohoku, Japan, 2000, Professor—Spatial data analysis and statistics

Eduard G. Reinhardt, Ph.D., Carleton, 1996, Professor—geology

Darren M. Scott, Ph.D., McMaster, 2000, Professor—sustainable transportation

Gregory F. Slater Ph.D., Toronto 2001, Professor—Contaminant geochemistry

James E. Smith, Ph.D., Waterloo, 1995, Professor—hydrogeology

J. Michael Waddington, Ph.D., York, 1995, Professor—biogeochemistry

Allison M. Williams, PhD.-, York 1997, Professor—Social Geography and Health

Robert D. Wilton, Ph.D., Southern California, 1999, Professor—urban, disability, health

Niko Yiannakoulias, Ph.D, University of Alberta 2006, Associate Professor—Spatial Analysis, Environment & Health

QUEEN'S UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1960 (Geography); 1970 (Planning)
GRADUATE PROGRAM FOUNDED: 1965 (Geography); 1970 (Planning)
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., M.Pl., Ph.D.
GRANTED 9/1/14 - 8/31/15 60 Bachelors, 35 Masters, 4 Ph.D.
STUDENTS IN RESIDENCE: 313 Majors, 93 Masters, 41 Ph.D.
NOT IN RESIDENCE: 14 Masters, 10 Ph.D.
HEAD: Warren Mabee
DEPARTMENT MANAGER: Kathy Hoover

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
graduate.info@queensu.ca, World Wide Web:
http://www.queensu.ca/geographyandplanning

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Planning offers programs of study in the following fields:

HUMAN GEOGRAPHY and PLANNING
The broad emphasis in the field of Human Geography is on exploring the evolution of a multitude of human systems. The focus is on the interactions and linkages between systems that operate at different scales, ranging from local (work, place, bodies, gender, health and healthcare, urban areas) and increasing through regional and national scales (citizenship, justice, governance, postcolonialism, indigenous peoples) to global systems (globalization, development, economies, sustainability). Unifying themes include identity and place. The broad emphasis in the area of Urban and Regional Planning is on the planning and development of cities and regions, and the relation between development and public policy concerns. Research in urban and regional planning seeks to integrate the latest knowledge related to environment and society with real-world planning challenges. Areas of focus include health and social planning, environmental services, and land use and real estate planning.

EARTH SYSTEM SCIENCE
The broad emphasis in the field of Earth System Science is on developing an integrative understanding of the Earth as a physical system of interrelated phenomena. The focus is on the interaction and linkages throughout the environment - the lithosphere, atmosphere, hydrosphere, cryosphere, and biosphere - and on physical, chemical, and biological processes operating at a wide range of spatial and temporal scales. Areas of faculty interest include forest systems, cold regions, energy production, and planning around resource use. Measurement, integration, and modelling of earth system elements to understand these linkages are key foci of research and graduate training activities. Field measurements and sample collection are matched with laboratory and data analysis, and modelling.

GEOGRAPHIC INFORMATION SCIENCE
The broad emphasis of research in GIS encompasses the theoretical, technical and applied aspects of cartography, geographic information systems, remote sensing and image processing, and modeling of human and natural systems. Specific areas of research focus relate GIS to aspects of human geography (disease modeling, mapping of

human impacts on the environment, resource optimization, contemporary and historical cartography), physical geography (biophysical remote sensing, image processing, geo-visualization) and urban and regional planning (land use planning, cartography, social engagement).

FACULTY:

Ajay Agarwal, Ph.D., Southern California, 2009, Associate Professor—travel behaviour of Generation Y, determinants of changes in urban spatial structure, promoting public transit in midsize Canadian cities

John Andrew, Ph.D., Toronto, 1999, Continuing Adjunct Assistant Professor—commercial real estate financial feasibility analysis, environmental issues in buildings and land, conflict management and public consultation in real estate planning, real estate decision-making and investment strategy, transportation infrastructure development and public-private collaboration

Laura Cameron, Ph.D., Cambridge, 2001, Associate Professor and Canada Research Chair (2003-2013)—historical, cultures of nature

Heather Castleden, Ph.D., Alberta, 2007, Associate Professor and Canada Research Chair—Treaty rights, negotiations, and implementation, Indigenous-Settler reconciliation, Social-environmental justice and health equity, Decolonizing, Indigenous, and participatory methodologies

Patricia Collins, Ph.D., Simon Fraser University, 2009, Assistant Professor—healthy and sustainable community planning and governance, and currently encompasses topics ranging from school closures, play deserts, commuting and health, food insecurity, and integrated community sustainability planning

DongMei Chen, Ph.D., San Diego State/University of California-Santa Barbara, 2001, Professor—geographic information systems, remote sensing, spatial analysis, environmental management

Ryan Danby, Ph.D., Alberta, 2007, Associate Professor—landscape ecology, biogeography, conservation biology, scale and hierarchy theory, arctic-alpine environments

Joyce Davidson, Ph.D., Edinburgh, 2001, Associate Professor—emotional geographies, gender and embodiment, mental health and illness, feminism and geography

Betsy J. Donald, Ph.D., Toronto, 1999, Associate Professor—urban and regional political economy, economic geography, urban governance, cultural economies of food and food systems planning

Anne Godlewska, Ph.D., Clark, 1985, Professor—the presence of Indigeneity in the Canadian Imagination, the flavours of Canadian identity in Canadian provincial education, geography, colonialism and imperialism, the map and society

David L.A. Gordon, D.Des, Harvard, 1994, Professor and SURP Director—suburbs in Canada, Australia and USA, planning history, especially Ottawa, capital cities, urban redevelopment, especially waterfronts, community design

Alice Hovorka, Ph.D., Clark University, 2003, Professor and Director of Environmental Studies—animal geographies, gender and environment, urban geography, Southern Africa

Audrey L. Kobayashi, Ph.D., UCLA, 1983, Professor—racism, human rights, feminism, immigration, critical disability studies, law and geography, Asia and Cuba

Melissa Lafrenière, Ph.D., Alberta, 2003, Associate Professor—biogeochemistry, hydrology, carbon and nutrient cycling in alpine and arctic catchments

Scott Lamoureux, Ph.D., Alberta, 1998, Professor—paleoclimatology, paleohydrology, hydrology, geomorphology, cold regions

W. George Lovell, Ph.D., Alberta, 1980, Professor—historical, cultural, Latin America

Warren E. Mabee, Ph.D., Toronto, 2001, Associate Professor and Head and Canada Research Chair—forests and energy, bioenergy and biofuel technology, regional energy systems

John F. Meligrana, Ph.D., Simon Fraser, 1998, Associate Professor—Local government reform, regional governance, urban-rural fringe, urban planning and development in China

Beverley Mullings, Ph.D., McGill, 1997, Associate Professor—International political economy, feminist geography, globalization and development, changing gender regimes, skilled migration and the new middle classes, the Caribbean, and Caribbean diaspora

Mark W. Rosenberg, Ph.D., London School of Economics, 1980, Professor and Canada Research Chair—population studies, medical, public policy

Neal Scott, Ph.D., Colorado State, 1996, Associate Professor and Canada Research Chair (2005-2015)—biogeography, biogeochemistry, disturbance effects on carbon and nitrogen cycling, land-use change and greenhouse gas emissions

Paul M. Treitz, Ph.D., Waterloo, 1997, Professor—biophysical remote sensing of arctic and boreal environments, environmental monitoring of arctic environments using SAR, Lidar remote sensing for forestry

Leela Viswanathan, Ph.D., York, 2007, Associate Professor—planning with Indigenous Peoples, planning pedagogy, race, space, and cross-cultural relations

Graham S. Whitelaw, Ph.D., Waterloo, 2006, Associate Professor—Environment and sustainability, focused primarily on three interrelated themes: regional planning, monitoring and environmental assessment. Oak Ridges Moraine Conservation Plan

EMERITI FACULTY:

Peter G. Goheen, Ph.D., Chicago, 1970, Professor Emeritus—historical, urban

Gerald Hodge, Ph.D., MIT, 1965, Professor Emeritus—regional planning, seniors planning, community planning

John Holmes, Ph.D., Ohio State, 1974, Professor Emeritus—urban and regional political economy, economic geography, labour geography

Hok-Lin Leung, Ph.D., Reading, 1985, Professor Emeritus—land use planning, urban design, policy planning and evaluation, cultural comparison

J. Harry McCaughey, Ph.D., McMaster, 1972, Professor Emeritus—climate change, adaptation to climate change, the role of forests in climate change, forest climatology, radiation, energy and water balance climatology, carbon cycling in ecosystems

Eric G. Moore, Ph.D., Queensland, 1966, Professor Emeritus—population, urban, public policy

Brian S. Osborne, Ph.D., Southampton, 1967, Professor Emeritus—historical, cultural

Mohammad Qadeer, Ph.D., Columbia, 1971, Professor Emeritus—multiculturalism, cities and planning for diversity, urban development and planning in the Third World

J. Barry Riddell, Ph.D., Pennsylvania State, 1969, Professor Emeritus—Third World underdevelopment, debt and conflict, globalization and development, the World Bank and neoliberalism in the Caribbean

Andrejs Skaburskis, Ph.D., UC Berkeley, 1977, Professor Emeritus—urban spatial structure, housing markets, urban economy

Rowland R. Tinline, Ph.D., Bristol, 1973, Professor Emeritus—medical, geographic information systems, disease modelling

CROSS-APPOINTED FACULTY:

Bruce Anderson, Ph.D., British Columbia, 1989, Professor in Civil Engineering—the use of natural and engineered biological systems for environmental control, with application to the problems of urban and semi-urban stormwater runoff, and the treatment and discharge of wastewater from small-scale unserviced areas

Jeffrey R. Masuda, Ph.D., Alberta, 2005, Associate Professor in Kinesiology and Health Studies—environmental health equity, social and environmental justice, urban health, knowledge translation, right to the city

David A. McDonald, Ph.D., Toronto, 1996, Professor in Global Development Studies—urbanization/cities, environmental justice, international migration, development, southern Africa

Katherine McKittrick, PhD., York, 2003, Associate Professor in Gender Studies—diasporic and migratory histories and cultures, cultural geographies, black studies and critical race studies

David Murakami-Wood, Ph.D., Newcastle, U.K., 2001, Associate Professor of Sociology and Canada Research Chair (Tier II) in Surveillance Studies—Surveillance, Technology and Society, Global Cities, Social Theory

Joan Schwartz, Ph.D., Queen's,1998, Professor and Head in Art History and Art Conservation—History of Photography, Nineteenth-Century Photography and the Geographical Imagination, Early Landscape/Travel Photography, The Management of Photographic Archives

RYERSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES
DATE FOUNDED: 1974
DEGREES OFFERED: BA in Geographic Analysis (GA), BA in Environment and Urban Sustainability (EUS), Master of Spatial Analysis (MSA)
DEGREES GRANTED 7/1/14-6/30/15: 50 Bachelors (GA), 22 Masters (MSA)
STUDENTS IN RESIDENCE: 298 Majors (GA), 304 Majors (EUS), 33 Masters (MSA)
CHAIR: Claus Rinner
DEPARTMENT ADMINISTRATOR: Christina Smith

FOR CATALOG AND FURTHER INFORMATION WRITE TO: See Department Web site at www.ryerson.ca/geography.

PROGRAMS AND RESEARCH FACILITIES: Ryerson University's undergraduate Geographic Analysis (GA) program emphasizes the application of geographic skills in a research and problem-solving framework. The goal of the program is to provide students with a unique combination of theory and analytical techniques which will enable them to work effectively and independently in a variety of employment settings after graduation. Emphasis is placed on digital geographic applications, including Geographic Information Systems (GIS), remote sensing, and the use of geospatial databases. The Environment and Urban Sustainability (EUS) program is focused on the development of skills required for academic and future success in the workplace. This is achieved as students interpret environments, examine ecological processes, explore urban policy, and critique sustainable initiatives, using the principles underlying physical and natural environments. Both the GA and EUS programs lead to an honours degree, Bachelor of Arts (BA).
Through the G. Raymond Chang School of Continuing Education, the department offers three post-baccalaureate certificates. The Certificate in Applied Digital Geography and GIS, as well as the Advanced Certificate in Applied Digital Geography and GIS, present courses in a wide range of GIS applications and geospatial technologies for those who want to enter a GIS-related occupation and for GIS professionals wishing to review and expand their GIS knowledge and skills. The Certificate in Demographic Analysis focuses on the principles and applications of demographic analysis and GIS applications in demography with a concentration on applications used for business, commercial or public sector purposes, immigration and settlement studies and/or the economic impacts of demographic change. Jointly with the Centre for the Study of Commercial Activity at Ryerson University, the department offers the Master of Spatial Analysis (MSA) program. The major research paper option of the MSA program can be completed in one year of full-time studies or two years of part-time studies. The thesis option takes 16-20 months of full-time studies. MSA student research is organized by three fields of study: business/commercial, physical/landscape, and social/community information analysis. For more information, see www.ryerson.ca/graduate/programs/spatial.

The department also contributes to the interdisciplinary graduate programs in Environmental Applied Science and Management (MASc., PhD), Immigration and Settlement Studies (MA), and Policy Studies (PhD).

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: The BA programs start with a one-year common curriculum with other social sciences and humanities programs, allowing the transferability of course credits. A total of 40 (EUS) or 41 (GA) one-semester courses are required. The programs include a mandatory (GA) or optional (EUS) internship placement, as well as field trips and project-based capstone courses. The MSA graduate program consists of four required core courses, two electives, and a practicum placement, as well as a major research paper or thesis. See:
www.ryerson.ca/undergraduate/calendars/
and www.ryerson.ca/graduate/currentstudents/calendarsanddates.html for more information.

To qualify for admission to the undergraduate programs, applicants must have acquired or be eligible to receive the Ontario Secondary School Diploma (OSSD) or equivalent with a minimum of six Grade 12 U or M courses (a minimum grade of 60% is required in each; a minimum overall average of 70% establishes eligibility for admission consideration, but is subject to competition where higher pre-requisite grades and/or higher overall averages may be necessary. It is required that applicants include English/Anglais, and recommended that they have Geography and Mathematics in their program. Further information can be found at:
www.ryerson.ca/undergraduate/admission/programs/geog.html.

FACULTY:

David Atkinson, Ph.D. Queen's (Canada), 2013 — Arctic biophysical systems, remote sensing, GIS

Douglas Banting, Ph.D., Western Ontario, 1982 — GIS, cartography, physical geography

Michal Bardecki, Ph.D., York (Canada), 1981 — Wetlands, environmental impact assessment, environmental education, Nepal

Harald Bauder, Ph.D., Wilfrid Laurier, 1998 — Critical geographies, international migration, labour markets, geographic practice

Valentina Capurri, Ph.D., York (Canada), 2010 — Urban geography, globalization, immigration, citizenship and identity

Brian Ceh, Ph.D., Western Ontario, 1994 — Business and commercial geography, GIS, urban-economic, quantitative

Philip Coppack, Ph.D., Waterloo, 1985 — Economic geography, globalization, quantitative methods

Sara Edge, Ph.D., McMaster, 2012 — Environment and sustainability governance, complex socio-ecological systems, promotion of healthy sustainable communities

Eric de Noronha Vaz, Ph.D., NOVA Lisbon, 2011 — GIS, complex systems, regional and urban planning, neogeography

K. Wayne Forsythe, Ph.D., Salzburg, 1999 — Geospatial analysis of contaminated sediments, urban change detection, remote sensing, GIS

Larry Fullerton, M.A., York (Canada), 1970 — Demography, recreation

Sutama Ghosh, Ph.D., York (Canada), 2006 — Immigration and settlement, transnationalism, race and racism

Tony Hernandez, Ph.D., Manchester, 1998 — GIS, marketing geography, geodemographics, commercial activity

Hersch Jacobs, Ph.D., Toronto, 1976 — Geography of food, rural, analysis of risk

Peter Kedron, Ph.D., Buffalo (SUNY), 2012 — Economic and urban geography, spatial analysis, GIScience

Susan Laskin, M.A., Toronto, 1979 — geography of Canada, cartography, GIS, distance education

Claire Oswald, Ph.D, Toronto, 2011 — Physical geography, watershed hydrology and biogeochemistry, watershed ecosystem science and management

Andrew Millward, Ph.D., Waterloo, 2004 — urban forestry and disturbance ecology, applications of remote sensing and spatial data handling

Claus Rinner, Ph.D., Bonn, 1999 — GIS, cartographic visualization, web mapping, spatial decision support systems (SDSS)

Richard Shaker, Ph.D., Wisconsin, 2011 — Biogeography, conservation of natural resources; environmental planning & policy, GIS, physical geography

Stephen Swales, M.A., Calgary, 1982 — land use development and planning, GIS

Lu Wang, Ph.D., York (Canada), 2004 — medical geography, immigrant health, economic geography, consumption and retailing, mixed-method approaches

Shuguang Wang, Ph.D., Alberta, 1994 — geography of retailing, ethnic economy, immigrant settlement patterns, China

UNIVERSITY OF GUELPH

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1966
GRADUATE PROGRAM FOUNDED: 1968
DEGREES OFFERED: BA, BSc, BSc (Env), MA, MSc, PhD
GRANTED 9/01/14 – 08/31/15: 97 Bachelors, 15 Masters; 1 PhD
STUDENTS IN RESIDENCE: 240 Majors, 41 Masters, 18 PhD
NOT IN RESIDENCE: 2 PhD, 1 Masters
CHAIR: Benjamin Bradshaw
DEPARTMENT ADMINISTRATIVE ASST: Jennifer Beehler

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
See web site: www.uoguelph.ca/geography

PROGRAMS AND RESEARCH FACILITIES: The Department offers Master's and Doctoral degrees. MA and MSc degrees include opportunities to specialize in human-environment geography, environmental geoscience and geomatics. Both thesis and non-thesis options of the above programs are available. Thesis and non-thesis collaborative Master's programs in international development studies also are offered. The PhD program offers opportunities for advanced research in areas focusing on these same areas. PhD theses can be completed in the form of a traditional dissertation, or as manuscripts. The Department has extensive computer facilities for data analysis and GIS, and has fully equipped geomorphology labs which include a wind tunnel, flume, and wave tank. The Department's programs are supported by an excellent University Library collection.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Trimester system. Admission requirements: at least a B average in Honours Geography or equivalent for the MA/MSc; at least an A- average at the Master's level for the PhD. Subject to satisfactory performance, the Department of Geography guarantees that full time Master's students will have minimum funding of $17,330 in Semesters 1 to 3 and $11,330 in Semesters 4 and 5. Doctoral students who have not waived the normal guaranteed minimum funding arrangement and who meet minimum performance requirements are guaranteed a minimum of $17,500 per year for three years. Because of the close collaborative relationship that typically exists between students and their faculty advisors, excellent support for field work and equipment is usually also provided.

FACULTY:

Lorne P. Bennett, PhD, Ottawa, 1989, Associate Professor — physical geography, biophysical processes, Niagara Escarpment

Aaron A. Berg, PhD, California, 2003, Professor — physical geography, hydrology and climate

Benjamin E. Bradshaw, PhD, Guelph, 1999, Associate Professor and Chair — environmental governance

Jaclyn Cockburn, PhD, Queens, 2008, Assistant Professor — sedimentary process and climate change

Ze'ev Gedalof, PhD, Washington, 2002, Associate Professor — physical geography, paleoecology, biogeography, dendrochronology

Noella J. Gray, PhD, Duke, 2009, Assistant Professor — political ecology, resource management, marine conservation

Evan Fraser, PhD, UBC, 2002, Professor and Canada Research Chair — challenges to global food security in 21st century

Roberta Hawkins, PhD, Clark, 2011, Assistant Professor — environment and development

Richard G. Kuhn, PhD, Alberta, 1987, Associate Professor — resource management, environmental assessment, nuclear fuel waste disposal

John B. Lindsay, PhD, Western Ontario, 2005, Associate Professor — GIS and spatial analysis, hydro-geomorphology, and digital terrain analysis

Janet E. Mersey, PhD, Wisconsin, 1984, Associate Professor — GIS, cartography, remote sensing

Kate Parizeau, PhD, Toronto, 2011, Assistant Professor — social context of waste management

Jennifer Silver, PhD, Simon Fraser, 2010, Assistant Professor — political ecology and ocean governance

John A. Smithers, PhD, Guelph, 1994, Professor and Dean — sustainable agriculture, resource management, local food systems

Wanhong Yang, PhD, Illinois, 2000, Associate Professor — GIS, resource management, spatial analysis

EMERITUS FACULTY:

Gerald Bloomfield, PhD, Nottingham, UK, 1964, Professor — analysis of motor and aircraft industries of the British Isles

Fred Dahms, PhD, Auckland, 1966, Professor — evolution of large urban centres, small rural towns

Robin G. Davidson-Arnott, PhD, Toronto, 1975, Professor — geomorphology, coastal studies

Alun E. Joseph, PhD, McMaster, 1976, Professor — social geography, restructuring, rural community change

Philip Keddie, PhD, Waterloo, 1976, Professor — agricultural geography, sustainable rural community, social geography

Reid D. Kreutzwiser, PhD, Western Ontario, 1978, Professor — resource management, water resources, policy evaluation

Kiyoko Miyanishi, PhD, York, 1984, Professor — plant geography, plant population, dynamics, fire ecology disturbance ecology

William G. Nickling, PhD, Ottawa, 1976, Professor — physical geography, aeolian processes

Barry E. Smit, PhD, McMaster, 1977, Professor and Canada Research Chair — environment and resource use, global change, vulnerability

KC Tan, PhD, London, UK, 1966, Professor — political geography

UNIVERSITY OF OTTAWA

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT AND GEOMATICS
DATE FOUNDED: 1951
GRADUATE PROGRAM FOUNDED: 1954
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
CHAIR: Eric Crighton
DEPARTMENT ADMINISTRATIVE ASST: Nathalie Maras

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Graduate Chair, Department of Geography, University of Ottawa, 60 University, Ottawa, Ontario, Canada K1N 6N5.
Telephone (613) 562-5725. Fax (613) 562-5145.
E-mail: geog@uottawa.ca
Internet: http://arts.uottawa.ca/geography/

PROGRAMS AND RESEARCH FACILITIES: A part of North America's only major bilingual university (English and French), the Department offers courses and supervision in both English and French. The bilingual character of the Department provides the benefit of exposure to both the English-North American and French schools of thought.

At the M.A., M.Sc. and Ph.D. levels, there are a variety of teaching and research interests in physical, human and environmental geography; see the department website. In physical geography, strengths are in northern studies and climate change and impacts. In human geography, particular strengths are in cities, immigration and boundaries, aboriginal and northern studies. Finally there is interest in GIS, environmental and spatial data analysis.

Students have access to excellent facilities within the Department, including seven research and two teaching laboratories, as well as to the Geographic, Statistical and Government Information Centre, which includes a large map and air photo library. Furthermore, Ottawa offers numerous specialized federal government libraries and the facilities of embassies and consulates. The campus is located near these facilities in the city center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: In the M.A and the M.Sc. program, one semester of course work is followed by an examination of the thesis proposal and thesis. The Ph.D. program is composed of a semester of course work, followed by a comprehensive examination, a thesis proposal and the thesis.

ADMISSION REQUIREMENTS: Minimum of B+ standing in previous academic work. Exceptions are considered. Unilingual candidates are admissible to the program in Geography, but are expected to acquire a basic knowledge of the second official language of Canada.

FINANCIAL AID: Up to $74, 000 (for 12 sessions) for Ph.D. students; up to $34,000$ (for 6 sessions) for M.A. and M.Sc. students; funds are derived from teaching assignments, research assistantships and Faculty of Graduate and Postdoctoral Studies Scholarships. Additional funds may be obtained from contracts and grants. Applicants seeking departmental funding are required to make applications to external scholarships, e.g., SSHRC, NSERC, OGS, etc.

APPLICATION DEADLINE: To be considered for departmental or university funding, applications must be received by May 1st.

FACULTY:

Kenza Benali, PhD, Montreal, 2008, Associate Professor — urban and cultural geography, sustainable city, postmodern and modern city

Marc Brosseau, PhD, Paris-Sorbonne, 1992, Professor — social and cultural geographies of urban space, history of French Canadian geography textbooks, geography and literature interface, geography and literature

Huhua. Cao, PhD, Laval, 1998, Professor — geomatics, ethnic minorities and urban/regional development, geography, spatial inequality and accessibility to Social services, mobility and urbanization, regional minority dynamics in China, francophone urban space in Canada, spatial and statistical analysis

Luke Copland, PhD, Alberta, 2001, Associate Professor — climate change, ice dynamics, glaciology, cryosphere, geomatics, remote sensing, GPS

Eric Crighton, PhD, McMaster, 2005, Associate Professor and Chair — environmental health, health geography, children's health, social determinants of health, risk perceptions and protective behaviours, health services research

Jackie Dawson, PhD, Waterloo, 2009, Associate Professor — human dimensions of environmental change, vulnerability and adaptation, resilience, marine governance, Arctic economic development

Konrad Gajewski, PhD, Wisconsin, 1983, Professor — biogeography, climatology, statistical analysis of environmental data, climate change and impacts, Quaternary studies, paleoclimatology and paleoecology, global change, GIS

Anne Gilbert, PhD, Ottawa, 1985, Professor — social and cultural geography, regional geography, minorities and development, new technologies of information and communication

Denis Lacelle, PhD, Ottawa, 2006, Assistant Professor — cold region geomorphology, permafrost hydrology and weathering processes, origin, stability and habitability of ancient permafrost and ground ice, quaternary paleoclimate and paleoenvironment studies, planetary ice/ permafrost studies

Bernard Lauriol, PhD, Montreal, 1981, Professor — underground ice, karst geomorphology

Antoni Lewkowicz, PhD, Ottawa, 1981, Professor — permafrost geomorphology and hydrology, effect of global change on Arctic regions, mountain permafrost

Brenda Macdougall, PhD, Saskatchewan, 2005, Associate Professor — Metis history and culture, landscape and memory, digital research, historical processes of identity formation

Brian K. Ray, PhD, Queen's, 1992, Associate Professor — immigrant integration, immigrant women and social networks, social justice,

Marc Saner, PhD, Switzerland, 1991 Associate Professor — Environmental ethics, governance and ethics of emerging technologies, risk management and governance, interface between science and policy

Michael C. Sawada, PhD, Ottawa, 2001, Professor — GIS, spatial analysis, continental-scale paleoenvironmental change

Luisa Veronis, PhD, Toronto, 2006, Associate Professor — transnationalism, immigrant and citizenship, the formation of immigrant communities and identities, Latin American migrants in Canada, neoliberal governance and the nonprofit sector

Andre Viau, PhD, Ottawa, 2003, Associate Professor — climatology, climate system history and dynamics, abrupt climate change, high latitude climates, global warming, environmental data analysis and modelling and human climate interactions

Sonia Wesche, PhD, Wilfrid Laurier, 2009, Assistant Professor — human dimensions of environmental change, vulnerability and adaptation, food security, aboriginal health, global health

EMERITUS FACULTY:

Hugh French, PhD, South, 1967 — permafrost geomorphology, Polar Regions, pleistocene, quaternary studies

Peter Johnson, PhD, Leeds, 1969 — geomorphology, Yukon Territory

Léon Ploegaerts, PhD, Montreal, 1975 — urban and regional planning, urban morphology, territorial legislation

Denis A. St-Onge, PhD, Louvain, 1962, Ph.D. (Hon. Causa, Manitoba) — geomorphology, quaternary geology, Arctic

Barry Wellar, PhD, Northwestern, 1969 — urban and regional planning, public policy analysis, research methods

ADJUNCT PROFESSORS:
David Burgess, PhD, Alberta, 2006 — Arctic glaciology
Laurence Gray, PhD, Calgary, 1971 — remote sensing, ice dynamics
Jeff Harris, PhD, — remote sensing
Stephen Howell, PhD — Arctic sea ice

UNIVERSITY OF TORONTO

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1935
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D. Geography; M.Sc. Planning; Ph.D. Planning
GRANTED 9/1/14 - 8/31/15: 622 Bachelors, 53 Masters, 7 Ph.D.
STUDENTS IN RESIDENCE: 121 Masters, 107 Ph.D.
CHAIR AND GRADUATE CHAIR: Virginia Maclaren
ADMINISTRATIVE ASST: Yvonne Kenny

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate or Undergraduate Program Administrator, Department of Geography and Planning, University of Toronto, 100 St. George, Sidney Smith Hall - Room 5047, Toronto, Ontario, Canada M5S 3G3. Telephone (416) 978-3375 Fax (416) 946-3886
E-mail: geograd@geog.utoronto.ca (for graduate programs) or undergrad@geog.utoronto.ca (for undergraduate programs) Website: www.geography.utoronto.ca

PROGRAMS AND RESEARCH FACILITIES: The University of Toronto has a tri-campus graduate program that includes faculty members from the Mississauga, St. George and Scarborough campuses. Each of the three campuses has a separate undergraduate program. The Geography M.A. and M.Sc. programs comprise two terms of graduate coursework and completion of either a thesis or a research paper. The Ph.D. requires completion of two terms of coursework, a comprehensive exam, and the preparation of a doctoral thesis or three publishable papers. This program requires two years in residence.

The Department is prepared to supervise graduate research in climatology, geomorphology, remote sensing, climate change, bioenergy, chemical and physical hydrology, resource and environmental management, cultural and social geography, historical geography, urban design, urban sustainability, economic geography, regional development, urban geography and planning. The Department conducts research on Canada, the United States, Latin America, Africa, Western Europe, and East and South Asia. In addition, the Department offers specialized training in GIS and remote sensing at the Master's and Doctoral levels.

The Department also offers a Master's degree in Planning, a two-year professional degree that is taught by planners and geographers with planning interests and by practitioners from the wider community. Five specializations are offered: urban, economic, social, environmental and urban design. The Ph.D. in Planning, like the Geography Ph.D., is a research degree requiring the preparation of a doctoral thesis. The Ph.D. program has three specializations: Cities in Global Context: Economic Development and Social Planning, Environmental and Sustainability Planning, and Urban Development, Design and the Built Environment.

The Department offers collaborative graduate degrees in Environmental Studies, Environment and Health, Aboriginal Health, Asia-Pacific Studies, Community Development, Diaspora and Transnational Studies, Ethnic and Pluralism Studies, Global Health, Jewish Studies, Sexual Diversity Studies, South Asian Studies and Women and Gender Studies.

The University library, with more than 13 million holdings has the largest collection of books and documents in Canada and is one of the top collections in North America. The Department supports a graduate computing lab, a GIS and remote sensing lab, a collaboratory, a GIS and cartography office, and an urban design lab.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan* Year system, with entrance in September. *Admission Requirements* Minimum requirement is a bachelor's degree from a recognized university with at least upper second class standing (B+) for Masters and first class standing (A-) for Ph.D. Exceptions permitted in unusual circumstances. *Financial Aid* All students offered admission, except those in the Master's degree in planning, are guaranteed funding packages of a minimum of $15,000 plus tuition for one year in the Geography Master's program and four years for the Ph.D. in Geography or Planning. Funding is derived from a mixture of sources including teaching assistantships, research assistantships, University of Toronto fellowships, and other fellowships. Teaching and research assistantships carrying stipends of approximately $8,000 and $3,000, respectively are available and involve not more than ten hours work per week. Departmental awards, entrance scholarships, University of Toronto fellowships and external fellowships (Social Sciences and Humanities Research Council of Canada, Natural Sciences and Engineering Research Council of Canada, Ontario Graduate Scholarships, etc.) range from $3,000 to $35,000. Students in the Master's in Planning program may be offered entrance scholarships, teaching assistantships, departmental awards, and research assistantships. Summer employment in the department may be available for students in any of the four graduate programs.

FACULTY:
Christian Abizaid, Ph.D., McGill, 2007, Assistant Professor — peasant livelihoods, human responses to environmental change, human-induced environmental change, land use and land cover change, environment and development, neotropical forests, Latin America
George B. Arhonditsis, Ph.D., University of the Aegean, Greece, 1998, Associate Professor — aquatic biogeochemical modeling, plankton ecology/foodweb dynamics,watershed-aquatic ecosystem interactions, aquatic ecosystem response to climatic variability, modeling of the disinfection by-products (DBPs) formation in water treatment plants
Alana Boland, Ph.D., Washington, 2001, Associate Professor — institutional reforms in urban water supply, green developmentalism, environmental governance, urban political economy and environment in the context of water supply and pollution control, sustainable economies, environmental indicators, China
Laurel Besco, Ph.D., Ottawa, 2016, Assistant Professor — environmental/sustainability law and policy; Green economy; Socio-legal dimensions of climate change
Donald Boyes, Ph.D., Western Ontario, 1998, Senior Lecturer — Geographic IS, remote sensing, fluvial geomorphology
Laura Brown, Ph.D., Waterloo, 2012, Assistant Professor — cryosphere, climate – lake ice interactions, remote sensing and numerical modelling
Michelle Buckley, Ph.D., Oxford, 2012, Assistant Professor — Migration and urbanization, Intersectional perspectives on work and employment, Marxist philosophy and postcolonial urban frameworks
Ronald N. Buliung, Ph.D., McMaster, 2004, Professor — Transportation and land use planning, activity-travel analysis, GIS, spatial analysis, retail innovation and consumer travel
Susannah Bunce, Ph.D., York, 2008, Assistant Professor — urban community and neighbourhood geography, urban political ecology, urban sustainability policy and practice, urban residential geography

Jing Chen, F.R.S.C., CRC; Ph.D., Reading, 1986, Professor — climatology/hydrology, carbon cycling, remote sensing, GIS

Tenley M. Conway, PhD., Rutgers, 2003, Associate Professor — landscape ecology, land use/cover change, GIS, urban environment, remote sensing, landscape ecology

Deborah Cowen, Ph.D., Toronto, 2005, Associate Professor — geographies of citizenship, security and war, social space, cities, logistics, sub/urban political geography

Amrita G. Daniere, Ph.D., Harvard, 1990, Professor — urban development and investment patterns, urban environmental planning in developing areas, environmental infrastructure, associational life, poverty

Joseph R. Desloges, Ph.D., British Columbia, 1987, Professor — fluvial and glacial geomorphology, lacustrine, Holocene, glaviomarine, human impact, climate change, floodplain geoarchaeology

Pierre Desrochers, Ph.D., Universite de Montreal, 2000, Associate Professor — economic geography, entrepreneurship, technology transfer

Richard J. DiFrancesco, Ph.D., McMaster, 1995, Associate Professor — urban economic and environmental economics, Canadian North

Timothy P. Duval, PhD., McMaster, 2010, Assistant Professor — wetland hydrology and biogeochemistry, watershed hydrology and biogeochemistry, stream nutrient dynamics, nitrogen and phosphorus cycling, redox chemistry, terrestrial-aquatic ecotones, wetland restoration and construction.

Michael Ekers, Ph.D., Oxford, 2010, Assistant Professor — mobilizes social and political theory and political economic approaches to understand: (1) the production of different environmental landscapes, and (2), the' identities' of the people that produce environmental spaces and their social positioning in the production process

Steven Farber, Ph.D., McMaster, 2010, Assistant Professor — transport geography, spatial analysis, accessibility, public transportation

Matthew Farish, Ph.D., British Columbia, 2003, Associate Professor — militarism and geopolitics, the Cold War, environmental history, American Studies, urban culture

Meric S. Gertler, F.R.S.C.; Ph.D., Harvard, 1983, Goldring Professor of Canadian Studies — economic development in city-regions, innovation systems, comparative capitalisms

Emily Gilbert, Ph.D., Bristol, 1998, Associate Professor — cultural geography, cultural theory, globalization, nationalism, culture and economy, money, nation-states, citizenship, borders, security

Kanishka Goonewardena, Ph.D., Cornell, 1998, Associate Professor — urbanism and critical theory, planning theory and neoliberal globalization, modernity and nationalism (postcolonial and diasporic)

William A. Gough, Ph.D., McGill, 1991, Professor — climate change in Hudson Bay, numerical ocean and climate modeling, air quality in southwestern Ontario, climate of Toronto

Jason Hackworth, Ph.D., Rutgers, 2000, Professor — urban and economic geography, political economy, uneven development, governance, theorizing and understanding neoliberal governance, forms of neoconservative governance (faith-based social welfare), social housing in Canada and the US

Ju Hui Judy Han, Ph.D., Berkeley, 2009, Assistant Professor — religion and secularisms, travel and mobilities, gender and sexuality, urban political geography, East Asia (Korea)

L. D. Danny Harvey, Ph.D., Toronto, 1986, Professor — climate modeling and physical basis of climate, global warming, energy efficiency and renewable energy, energy policy

Monika Havelka, Ph.D., Western Ontario, 2002, Senior Lecturer — urban ecology and restoration ecology

Yuhong He, Ph.D., Saskatchewan, 2008, Associate Professor — remote sensing, advanced spatial analysis, climate change, grassland productivity and biodiversity and forest disturbance

Paul Hess, Ph.D., Washington, 2001, Associate Professor — urban design, pedestrian planning, planning history

Mark Hunter, Ph.D., Berkeley, 2005, Associate Professor — health and inequality, AIDS, sexuality, political economy, critical development studies, South Africa

Marney Isaac, Ph.D., Toronto, 2008, Assistant Professor — agroforestry, agroecology, soil fertility, plant nutrition, localized management knowledge, ecological services, social-ecological systems, social networks, cognitive mapping

Thembela Kepe, Ph.D., Western Cape, South Africa, 2002, Associate Professor — people-environment interactions, land rights, politics of development projects, southern Africa

Nicole Klenk, Ph.D., British Columbia, 2008, Assistant Professor — social studies of science, environmental policy, climate change adaptation, environmental governance

Nicole Laliberté, Ph.D., Pennsylvania State, 2013, Lecturer — anti-oppression pedagogies, feminist geopolitics, critical geographies of development, militarization

Igor Lehnherr, Ph.D, Alberta, 2011, Assistant Professor — biogeochemistry of major and trace elements, contaminants, impacts of climate change on aquatic ecosystems

Deborah Leslie, Ph.D, British Columbia, 1995, Professor — economic geography, cultural industries, feminist geography, cultural industries and urban-economic development, the politics of the creative city

Robert D. Lewis, Ph.D, McGill, 1992, Professor — urban historical, North America

Joseph Leydon, Ph.D., Toronto, 1995, Senior Lecturer — regional geography of North America, colonial North America and the Caribbean, population dynamics, retail analysis

Kenneth Ian MacDonald, Ph.D. Waterloo, 1995, Associate Professor — international development, politics of biodiversity conservation, transnationalism, cultural politics, identity, consumption, nature-society relations, South Asia

Virginia Maclaren, Ph.D., Cornell, 1984, Associate Professor and Chair — sustainability indicators, environment management and planning, urban waste management, community indicators, community participation, Southeast Asia

Minelle Mahtani, Ph.D., University College, London, 2000, Associate Professor — critical "mixed race" theory, women of colour in geography and planning, media and minority representation, geographies of media, diversity and inclusion in pedagogy in geography

Deborah McGregor, Ph.D., Toronto, 2000, Associate Professor — traditional environmental knowledge, First Nations and land/environment issues, Aboriginal environmental and resource management, Aboriginal health/education, sustainable forest management, water management and first nations

Carl Mitchell, Ph.D., Toronto, 2006, Associate Professor — hydrology; biogeochemistry; mercury and methylmercury; anaerobic soils; wetlands; sulfur cycling; biogeochemical hot spots; snowmelt; redox chemistry; environmental microbiology

John Miron, Ph.D., Toronto, 1974, Professor — household formation, migration, housing demand, housing policy location theory, urban spatial structure and change, migration and regional economic growth

Sharlene Mollett, Ph.D., Toronto, 2006, Assistant Professor — land and natural resource conflicts, political ecology, international development and racialization, Latin America, race, gender and property rights, indigenous peoples and Afro-descendent communities, feminist and post-colonial geographies

Barbara Murck, Ph.D., Toronto, 1986, Senior Lecturer — environmental issues in developing countries

Andrea Olive, Ph.D., Purdue, 2009, Assistant Professor — environmental policy, conservation, private property, Arctic politics, indigenous politics, Canada-US relations

Trevor Porter, Ph.D., Carleton, 2012, Assistant Professor — paleoenvironments; climate change; stable isotope geochemistry and dendrochronology

Scott Prudham, Ph.D., Berkeley, 1999, Professor — natural resources, environment and society, political economy, political ecology,

biotechnology, history and political economy of scientific and industrial forestry, critical theory and/of nature

Katharine N. Rankin, Ph.D., Cornell, 1999, Professor — gender and development, culture-economy articulations, market regulation, ethnographic models, planning theory, Southeast Asia

Raj Narayanareddy, Ph.D., Minnesota, 2011, Assistant Professor — geographies of waste and labour, urban political ecology, global urbanism, cities of the global South, South Asia

Vincent B. Robinson, Ph.D., Kent State, 1978, Associate Professor — geographic information science, ecological modeling, spatial analysis

Susan Ruddick, Ph.D., UCLA, 1992, Professor — social theory, philosophy and geography, space and power, social construction of childhood, child rights and policy, social exclusion, governance and citizenship, conflicts in public space, the public sphere

Rachel Silvey, Ph.D., Washington, 1997, Associate Professor — migration and immigration, Indonesia, feminist theory, critical development studies, Islam and the politics of transnationalism, gender/religion/difference, South East Asia (Indonesia)

Matti Siemiatycki, Ph.D., British Columbia, 2006, Associate Professor — transportation policy and planning, infrastructure finance and delivery, community and regional planning

Neera Singh, Ph.D., Michigan State, 2009, Assistant Professor — environmental conservation and development, community forestry, forest tenure and forest governance, environmental behavior and subjectivity

Andre Sorensen, Ph.D., London, 1998, Professor — urban planning, land use change, Japan, citizen's movements, property rights, institutionalism

Sarah Wakefield, Ph.D., McMaster, 2002, Associate Professor — environmental health, civic participation in environmental management, and urban food security, community-based research

Alan Walks, Ph.D., Toronto, 2004, Associate Professor — urban social and political geography, electoral geography, social polarization, housing policy, politics of planning

Mathew G. Wells, Ph.D., Australian National University, 2001, Associate Professor — environmental fluid dynamics, turbulence modeling, mixing and dispersion of nutrients and larvae

Michael Widener, Ph.D., *SUNY–Buffalo, 2012, Assistant Professor* — access to healthy food and healthcare facilities; Health and transportation geographies; GIS, agent-based modelling, and spatial optimization

Kathi Wilson, Ph.D, Queens, 2000, Professor — health geography and First Nations studies

Jun Zhang, Ph.D, Minnesota, 2007, Assistant Professor — urban and regional economic development, geographic theorizing of markets, states, and institutions, geography of innovation and entrepreneurship

EMERITI FACULTY:

Larry S. Bourne, Ph.D., Chicago, 1966, Professor Emeritus — urban systems, urban spatial structure, housing, social and spatial inequalities

John N. H. Britton, Ph.D., London, 1966, Professor Emeritus — industrial development and technological policy

Rorke Bryan, Ph.D., Sheffield, 1967, Professor Emeritus — experimental geomorphology, soil conservation, arid lands development

Michael Bunce, Ph.D., Sheffield, 1970, Associate Professor Emeritus — agricultural change in urban regions, rural settlement, rural planning and policy, cultural/environmental production and construction of countryside, sustainable development in small island states

Ian Burton, PhD., Chicago, 1962, Professor Emeritus — environmental hazards, perception and decision-making in resource management

Anthony M. Davis, Ph.D., Wisconsin, 1975, Associate Professor Emeritus — biogeography, palynology/paleoecology

Gunter H. K. Gad, Ph.D., Toronto, 1976, Professor Emeritus — office location and business linkages, urban historical

Jock H. Galloway, Ph.D., London, 1965, Professor Emeritus — Latin America, historical geography of Brazil, sugar industry

Gordon Gracie, Ph.D. Illinois, 1963, Professor Emeritus — photogrammetric mapping, analytical photogrammetry, survey analysis

Brian Greenwood, Ph.D., Bristol, 1970, Professor Emeritus — coastal geomorphology, nearshore hydrodynamics and sedimentation, morphodynamics

A.P. Lino Grima, Ph.D., Toronto, 1970, Associate Professor Emeritus — environmental management, public participation

Reiner Jaakson, Ph.D., Waterloo, 1972, Professor Emeritus — recreation, survey methods, ecotourism

Thomas F. McIlwraith, Ph.D., Wisconsin, 1973, Professor Emeritus — Ontario landscape, nineteenth-century technology and transport, heritage conservation

D. Scott Munro, Ph.D., McMaster, 1975, Professor Emeritus — microclimatology, hydroclimatology, surface and basin climatology of glaciers, hydrometeorological modeling, remote sensing, energy exchange processes

Anthony G. Price, Ph.D., McGill, 1975, Associate Professor Emeritus — hydrology, forest soils; the Boreal forest of the Canadian Shield; montane forests in subtropical N.E. Mexico

Edward C. Relph, Ph.D., Toronto, 1973, Professor Emeritus — place and humanistic geographies

Shoukry T. Roweis, Ph.D., M.I.T., 1973, Professor Emeritus — urban planning and political processes

James W. Simmons, Ph.D. Chicago, 1964, Professor Emeritus — Canadian urban system, growth and policy

Alan Waterhouse, Ph.D. Berlin, 1968, Professor Emeritus — urban design, urban planning policies

Joseph B.R. Whitney, Ph.D., Chicago, 1979 Professor Emeritus — China's environment, waste management, energy systems in developing countries

UNIVERSITY OF WATERLOO

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT
DATE FOUNDED: 1962
GRADUATE PROGRAM FOUNDED: 1964
DEGREES OFFERED: B.E.S., M.A., M.A.-Water, M.E.S., M.E.S.-Water, M.Sc., M.Sc.-Water, M.C.C., and Ph.D., PhD-Water
GRANTED 9/1/14-8/31/15: 140 Bachelors, 37 Masters, 12 Ph.D.
STUDENTS IN RESIDENCE: 646 Bachelors; 96 Masters, 57 Ph.D.
NOT IN RESIDENCE: 2 Masters, 8 Ph.D.
CHAIR: Johanna Wandel (Interim Chair)
DEPARTMENT ADMINISTRATIVE MANAGER: Susie Castela

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Department of Geography and Environmental Management, University of Waterloo, 200 University Avenue West, Waterloo, Ontario, Canada N2L 3G1. Telephone (519) 888-4567, ext. 32433.
Email: geogchair@uwaterloo.ca
Internet: https://uwaterloo.ca/geography-environmental-management/

Associate Chair Undergraduate Studies, Geography Program: Dr. Merrin Macrae. E-mail: mmacrae@uwaterloo.ca

Associate Chair Undergraduate Studies, Aviation and Geomatics Programs*:* Dr. Ian McKenzie. E-mail: mckenzie@uwaterloo.ca

Associate Chair Graduate Studies*:* Dr. Brent Doberstein. E-mail: bdoberst@uwaterloo.ca

PROGRAMS AND RESEARCH FACILITIES:
UNDERGRADUATE: The Department of Geography and Environmental Management, one of five academic units in the Faculty of Environment, offers programs leading to the Bachelor of Environmental Studies (B.E.S.) degree. In addition to the Geography and Environmental plan are two additional degree plans. A B.E.S. degree in Geomatics and a B.E.S. degree in Geography and Aviation. The Geomatics Plan builds on the strength of the University of Waterloo expertise in GIS, Remote Sensing, Computer Science, Geodesy and Surveying. The Geography and Aviation Plan couples the BES degree with flight training and leads to a Commercial Pilot Licence. Similar aviation programs offered in the Faculty of Science (Physics and Earth Sciences) incorporate seven Geography courses as program core. In all cases, students become members of the Department in their first year of study. The Honours Co-op Geography and Environmental Management and Geomatics plans provides for alternate terms of practical work experience and academic study. Students may be admitted to the Co-op Plan in the first or second year. In addition to completing the regular series of undergraduate courses, students must complete four work terms. Co-operative Education and Career Services assist students with placement for work terms during which they receive remuneration from their employers. The Honours Regular Geography and Environmental Plan is broad in scope, but students may concentrate their courses in one or more of the major areas of specialization: Climate Change; Earth System Science; Geomatics and Development and Environment. Students may also develop Joint Honours Plans to suit their particular interests. The three-year General Geography Plan provides a liberal education in environmental studies, with less specialization in Geography than in the Honours Plans.

Through the Mapping, Analysis and Design unit of the Faculty, the Department offers excellent computing facilities, particularly for geographic information systems and remote sensing. Commercial GIS and remote sensing software are used in teaching and for project work. The eight computer labs are open 24 hours a day, and a Help Desk is available during regular working hours. There are laboratories for undergraduate studies in geomorphology, hydrology and ecology. Field courses are offered in Canada and overseas.

GRADUATE: In co-operation with the Department of Geography and Environmental Studies at Wilfrid Laurier University, located less than 1 km away, the Department operates the Waterloo-Laurier Graduate Program in Geography. Full details of the program are shown in an adjacent section of this guide and also at: http://geograd.uwaterloo.ca/. The numbers of Masters and Ph.D. students shown at the start of this submission are for those students in the joint program who are registered at the University of Waterloo. The total number of students registered in the joint program is 120 Masters, 82 Ph.D. in residence and 7 Masters, 11 Ph.D. not in residence.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Academic Plan: 3 terms (September-December, January-April, May-August).

Admission Requirements: Information for applicants from the Ontario secondary school system and other provinces in Canada can be found at https://uwaterloo.ca/find-out-more/admissions

The university encourages applications from international students. Further information can be found at
http://www.international.uwaterloo.ca/.

GRADUATE: Full details are shown in an adjacent section of this guide and also at: http://geograd.uwaterloo.ca/

FACULTY:
Jean Andrey, Ph.D., Waterloo, 1989, Professor—transportation, climatic hazards
Sarah Burch, Ph.D., British Columbia, 2009, Assistant Professor—governing responses to climate change (both adaptation and mitigation) in urban spaces.
Judith Cukier, Ph.D., Waterloo, 1996, Associate Professor—tourism, gender and development, marine parks, Southeast Asia, Caribbean
Peter Deadman, Ph.D., Arizona, 1997, Associate Professor—GIS, resource and environmental management
Brent Doberstein, Ph.D., British Columbia, 2001, Associate Professor—resource and environmental management, international development, environmental impact assessment, hazards
Claude Duguay, PhD., Waterloo, 1989, Professor—climate impacts on the cryosphere, numerical modelling and remote sensing of lake ice, climate-lake interactions
Susan Elliott, Ph.D., 1992, McMaster University, 1992, Professor—environment and health, health geography, environmental science, urban social geography and planning, research methods
Christopher Fletcher, Ph.D., London, 2005, Assistant Professor—using numerical models to investigate large-scale climate processes and climate change

THE UNIVERSITY OF WESTERN ONTARIO

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1938
GRADUATE PROGRAM FOUNDED: 1946
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 9/1/14-8/31/15: 17 Bachelors, 37 Honors (Total), 13 Masters, 8 Ph.D.
STUDENTS IN RESIDENCE: 77 - 4-Yr B.A., 3 - 3-Yr B.A., 71 Honors, 37 Masters, 49 Ph.D.
CHAIR: Dr. Dan Shrubsole
DEPARTMENT ADMINISTRATIVE OFFICER: Barbara Thomas

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Graduate Administrator, Department of Geography, The University of Western Ontario, London, Ontario N6A 5C2
Telephone: (519) 661-2111, ext. 85033 Fax: (519) 661-3750
Page: http://www.geography.uwo.ca

PROGRAMS AND RESEARCH FACILITIES:
Degree Programs (M.A., M.Sc. and Ph.D.): The program emphasizes training in research leading to Masters or Ph.D. theses. Students select from a wide range of graduate courses that provide them with the necessary background knowledge and skills for their proposed research and subsequent employment. All students take a seminar course in geographical methodology, and in research design and communication. Both Masters and Ph.D. students complete an approved research proposal prior to registering for the thesis. Ph.D. students must also pass a comprehensive examination. All these go through an oral defense prior to final acceptance. Students are encouraged to publish their research and to present at conferences. There are four major fields of study.

Physical Geography: Studies of earth surface processes in hydrology, geomorphology, climatology, river ecology and environmental change using instrumented field sites, terrain analysis, remote sensing and GIS. Current projects include urban heat island, water quality in rivers, and fluvial sediment transport. Environmental

change studies include: paleo environmental reconstructions using dendrochronology and dendrogeomorphology, paleolimnology and environmental archeology, the response of river and vegetation systems to environmental change, and modified climates in urban areas. Regional emphases include the Rocky Mountains in the USA and Canada, Canadian High Arctic, southwestern Ontario and the Boreal Plains.

Geographic Information Science (GIS): Theoretical and applied studies of geographic information systems (GIS), remote sensing and cartography. Interests in GIS include: spatial modelling and visualization, database structures and pattern recognition. Application of GIS to: urban land use, locational analysis, glacier dynamics, and landscape. Planetary cartography and mapping of asteroids. Applications of remote sensing to resource management, cartography, and earth surface processes (including vegetation patterns, river channel form, and urban surface temperatures).

Urban Studies: Urban Studies research focuses on phenomenon and societal issues in the context of cities. The research topics include urban development, urban land and real estate economics, urban morphology, planning, housing, health, history, culture and geomatics. Current projects include research on: recent decline in the downtown quaternary functions in North American cities; spatial demographics of educational demand; urban environmental influences on childhood obesity; geographic studies of paediatric trauma; urban forms for seniors' independence and mobility; property acquisition and social mobility; spatial patterning of urban crime; geographies of personal networks; urban demographics and housing choices; uncertainty and household mobility; and regional economic development.

Environment, Development and Health*:* Within this cluster, "environment" is defined in the broadest sense, including aspects of both physical and social environments. Research on the health geography of Canada includes work on environmental hazards and risk perception, environmental inequity, energy justice, health effects of air pollution, and childhood obesity and urban form. Research in international contexts, with regional specialization in Africa and the Caribbean, is examining peasant agriculture, food security and nutrition, HIV-AIDS, and the connections between gender, migration and development. Faculty members in this cluster are also involved in research on food, energy and water resources, climate change, and other aspects of environmental policy and management.

RESEARCH FACILITIES: Depending on their area of interest and research needs, graduate students can access a range of biophysical, urban, health and general computing lab facilities. The Department has excellent infrastructure for the measurement and analysis of environmental processes and paleo environments. In addition, state-of-the-art electronic surveying equipment (motorized and conventional total stations, high resolution differential GPS, electronic level) complement image-based (remote sensing and digital photogrammetry) terrain acquisition and analysis software. Computing areas are available for all students. Study space is provided for each graduate student. See the web page for more information about research labs and support.

MA, M.Sc. and Ph.D. programs in Geography (Environment and Sustainability) are offered in conjunction with departments in the Faculty of Science and Faculty of Engineering.

MA and Ph.D. programs in Geography (Migration and Ethnic Relations) are offered in conjunction with Departments in the Faculties of Social Science, and Arts and Humanities.

M.Sc. and Ph.D. programs in Geography (Planetary Science and Exploration*)* are offered in conjunction with the Centre for Planetary Space and Exploration.

MA, M.Sc. and Ph.D. programs in Geography (Global Health Systems in Africa) are offered in conjunction with the Global Health Systems in Africa Program..

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Master's applicants must have either an Honors Bachelor's degree or equivalent in Geography with at least a B+ average from a recognized university and have completed course work to the satisfaction of the department. Ph.D. applicants who hold a Master's degree or equivalent are accepted at the discretion of the department. Financial aid is available to qualified students through university scholarships, teaching assistantships, conference awards, and scholarships from outside agencies. Email the Graduate Assistant for more information.

FACULTY:

Godwin Arku, Ph.D., McMaster, 2005, Associate Professor—urban development

Peter E. Ashmore, Ph.D., Alberta, 1985, Professor—fluvial geomorphology

Jamie Baxter, Ph.D., McMaster, 1997, Professor—hazards and health geography

Brian Branfireun, Ph.D., McGill 2000, Professor (cross with Biology)—ecohydrology, biogeochemistry, wetlands; Canada Research Chair

Michael Buzzelli, Ph.D., McMaster, 2001, Associate Professor—GIS, housing, urban, environmental and social determinants of health

Irena Creed, Ph.D., Toronto, 1998, Professor (cross with Biology)—watershed biogeochemistry; Canada Research Chair

Belinda Dodson, Ph.D., Cambridge, 1990, Associate Professor—development, gender, Southern Africa

Rick Fehr, Ph.D., York, 2010, Assistant Professor—historical relations with First Nations and Canadians

Jason Gilliland, Ph.D., McGill University, 2001, Professor—urban development, children's health

Milford B. Green, Ph.D., Ohio State, 1980, Professor—economic, transportation

Jeffrey S.P. Hopkins, Ph.D., McGill, 1992, Associate Professor—cultural, human

Carol Hunsberger, Ph.D., Carleton, 2012, Assistant Professor—political ecology, biofuels, East Africa, energy justice

Isaac Luginaah, Ph.D., McMaster, 2002, Professor—medical, environment health relationships; Canada Research Chair

Jacek Malczewski, Ph.D., Poland, 1987, Professor—economic

Diana Mok, Ph.D., Toronto, 2002, Associate Professor (cross with Management and Organizational Studies)—urban, economic, GIS

Desmond Moser, Ph.D., Queens 1993, Associate Professor (joint with Earth Sciences)—tectonics, geochronology

Katrina Moser, Ph.D., McMaster, 1997, Associate Professor—geology, paleolimnology, biogeography

Chantelle Richmond, Ph.D., McGill, 2007, Associate Professor—aboriginal health, environmental health. CIHR Early Researcher.

Dan Shrubsole, Ph.D., Waterloo, 1989, Professor and Chair—resources management

C. Christopher Smart, Ph.D., McMaster, 1983, Professor—hydrology, geomorphology

L. Graham Smith, Ph.D., Waterloo, 1982, Associate Professor—resources management

Philip J. Stooke, Ph.D., Victoria, 1988, Associate Professor—cartography, space exploration

James A. Voogt, Ph.D., British Columbia, 1995, Associate Professor—urban climatology

Jinfei Wang, Ph.D., Waterloo, 1988, Professor—spatial analysis, GIS

Anthony Weis, Ph.D., Queen's, 2003, Associate Professor—international development policy and practice

Adam Yates, Ph.D., Western, 2009, Assistant Professor—aquatic ecosystems, ecological assessments

WATERLOO-LAURIER GRADUATE PROGRAM IN GEOGRAPHY

DEPARTMENTS OF GEOGRAPHY
UNIVERSITY OF WATERLOO AND WILFRID LAURIER UNIVERSITY
DATE FOUNDED: 1992
DEGREES OFFERED: M.A., M.E.S., MSc., Ph.D.
GRANTED 9/1/14-8/31/15: 32 Masters, 13 Ph.D.
STUDENTS IN RESIDENCE: 120 Masters, 82 Ph.D.
NOT IN RESIDENCE: 7 Masters, 11 Ph.D.
DIRECTOR: Dr. Brent Doberstein, University of Waterloo
GRADUATE PROGRAM ADMINISTRATOR: Alan Anthony, University of Waterloo

FOR FURTHER INFORMATION WRITE TO: The Director's Office, University of Waterloo, Department of Geography & Environmental Management, 200 University Avenue West, Waterloo, Ontario N2L 3G1. Telephone (519) 888-4567, ext. 32730, aanthony@uwaterloo.ca Internet: http://geograd.uwaterloo.ca/

PROGRAMS AND RESEARCH FACILITIES: The departments of geography at the University of Waterloo and Wilfrid Laurier University jointly offer graduate work in Geography. The Waterloo-Laurier Graduate Program in Geography is responsible for admissions, for the program of instruction and for the naming of students supervisory committees. Students register at either the University of Waterloo or Wilfrid Laurier University (depending on where the supervisor is located), but will undertake coursework at both universities. Students in the program are governed by the general regulations of the university in which they are registered and their degree is granted by that university. The fields of research specialization in which the program offers training and research guidance at the Masters and Doctoral levels are: (1) environmental and resource management, (2) environmental science, (3) human geography, (4) geomatics. For graduates from a four-year honours program (or equivalent) in Geography, there are two routes for the MSc/M.A./M.E.S. - (1) the Thesis MSc/M.A./M.E.S. and (2) the Research Paper M.A./M.E.S. Requirements for the Thesis MSc/M.A./M.E.S are five graduate courses and a thesis. Requirements for the Research Paper M.A./M.E.S. are eight graduate courses and a research paper. For the Ph.D. (after the M.A./M.E.S./MSc. degree), course requirements vary with the background and needs of the candidate. A dissertation is mandatory. Under special circumstances, a M.A./M.E.S./MSc. candidate may transfer to the Ph.D. program without completing a thesis.

Excellent cartographic, photo interpretation, remote sensing, GIS, and computer facilities are available to students in the Joint Program. Graduate student research can sometimes be assisted in financial and other ways by the following University of Waterloo and Wilfrid Laurier research centres and laboratories: Cold Regions Research Centre, Heritage Resources Centre, Wetlands Research Centre, Canadian Water Network Laboratory, Quaternary Sciences Institute, and the Waterloo Laboratory for Earth Observations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Academic Plan: 3 terms (September-December, January-April, May-August). Admission Requirements - M.A: B standing (75%) in four-year honours B.A./BES/BSc program or equivalent. Ph.D.: Must possess M.A. (or equivalent) and first-class standing. Financial Aid: Both departments guarantee a minimum level of funding through Teaching Assistantships (offered from September-April) and university scholarships which range in value from $1,500 to $7,000. In addition, exceptional students can expect additional scholarships and/or Research Assistantships through faculty research grants.

FACULTY IN THE GEOGRAPHY GRADUATE PROGRAM:

Jean Andrey, Ph.D., Waterloo, 1989, Professor — transportation, climatic hazards

Jennifer Baltzer, Ph.D., Toronto, 2005, Associate Professor — functional basis of plant species distributions, forest ecosystems including tropical, temperate and boreal forests

Judy Bates, Ph.D., York, 1997, Associate Professor — local labour markets, gender, self-employment

Alison Blay-Palmer, Ph.D., Waterloo, 2003, Assistant Professor — sustainable food systems, multi-scaled economic development, Cuban organic agriculture, globalization

Sarah Burch, Ph.D., British Columbia, 2009, Assistant Professor — governing responses to climate change (both adaptation and mitigation) in urban spaces.

Mary-Louise Byrne, Ph.D., McMaster, 1991, Associate Professor — coastal geomorphology, physical geography

Barbara Carmichael, Ph.D., Victoria, 1991, Professor — tourism, recreation, economic development

Judith Cukier, Ph.D., Waterloo, 1996, Associate Professor — tourism, gender and development marine parks, Southease Asia, Caribbean

Peter Deadman, Ph.D., Arizona, 1997, Associate Professor — GIS, resource and environmental management

Jody F. Decker, Ph.D., 1989, York, Associate Professor — native issues, medical, cultural, historical, women s and environmental health issues

Brent Doberstein, Ph.D., British Columbia, 2001, Associate Professor — resource and environmental management, international development, environmental impact assessment, hazards

Sean Doherty, Ph.D., Toronto, 1998, Associate Professor — urban transportation geography GIS, energy efficiency

Claude Duguay, Ph.D., Waterloo, 1989, Professor — remote Sensing, Modeling, cryosphere, lakes

Susan Elliott, Ph.D., 1992, McMaster University, 1992, Professor — environment and health, health geography, environmental science, urban social geography and planning, research methods

Michael C. English, Ph.D., McGill, 1985, Professor — sub-Arctic delta hydrology and geomorphology, watershed hydrology and chemistry

Christopher Fletcher, Ph.D., 2005, University College London, Assistant Professor — large-scale climate dynamics and teleconnections, seasonal-to-decadal climate prediction, land-ocean-atmosphere interaction

James Hamilton, Ph.D., McMaster, 1996, Associate Professor — climate change and paleoclimatology, hydrology and geomorphology of karst terrains in cold regions

Michael Imort, Ph.D., Queen's, 2000, Associate Professor — cultural-historical geography and environmental history

Peter Johnson, Ph.D., McGill, 2010, Assistant Professor — application and evaluation of geospatial technologies, especially agent-based models (ABM), geographic information systems (GIS), and the Geospatial Web 2.0 (Geoweb), for decision support systems.

Richard Kelly, Ph.D., Bristol, 1995, Professor — remote sensing of the cryosphere, especially snow and ice environments

Ellsworth LeDrew, Ph.D., Colorado, 1976, University Professor — climatology, remote sensing

Jonathan Li, Ph.D., Cape Town, 2000, Professor — satellite remote sensing and urban mapping, intelligent object extraction algorithms, digital terrain modeling and analysis, wireless sensor networks and spatial sensor web, environmental modeling and visualization, WebGIS for disaster management, mobile mapping systems and ubiquitous mapping

Merrin Macrae, Ph.D., Wilfrid Laurier, 2003, Associate Professor — Biogeochemical cycling in natural and impacted systems under variable climatic regimes

Philip Marsh, Ph.D., McMaster, 1983, Professor — hydrology of Arctic Canada with a focus on the effects of snow, ice, permafrost on the hydrology of key northern ecosystems

Robert McLeman, PhD, Guelph, 2005, Associate Professor — human dimensions of environmental change

Robert Milne, Ph.D., Wilfrid Laurier, 2003, Assistant Professor — landscape ecology, environmental monitoring, ecotourism

Bruce Mitchell, Ph.D., Liverpool, 1969, Professor — natural resources, water management

Clare Mitchell, Ph.D., Waterloo, 1986, Associate Professor — rural, local economic development, retail

Alison Mountz, Ph.D., British Columbia, 2003, Associate Professor — Migration and political geography, struggles over border enforcement, asylum, and detention.

Brenda Murphy, Ph.D., Guelph, 2001, Associate Professor — Community vulnerability and capacity in the management of both natural and technological risks and disasters

Sanjay K. Nepal, Ph.D. Bern, 1999, Professor — Exploring the links between biodiversity conservation and tourism, particularly in areas of resolving conflicts between wildlife agencies and local communities, tourism impacts on the environment (in parks and protected areas, and remote communities), community participation, and local level development through tourism; Current research focus is in Nepal, Thailand and Western Canada

Paul K. Parker, Ph.D., London, 1990, Professor — resources, local economic development, energy, Japan and Pacific economy

Richard Petrone, Ph.D., Waterloo, 2002, Professor — wetland hydrology and climatology, wetland restoration, land-use change and agriculture

Jonathan S. Price, Ph.D., McMaster, 1988, Professor — hydrology, wetlands

Bill Quinton, Ph.D., Saskatchewan, 1997, Associate Professor — Boreal forest hydrology

Steven Roberts, Ph.D., Waterloo, 2003, Associate Professor — spatial optimization and spatial data models

Colin Robertson, Ph.D., Victoria, 2011, Assistant Professor — Geographical analysis of dynamic processes, quantitative geography, development and application of methods of spatial and space-time analysis

Derek Robinson, Ph.D., Michigan 2009, Assistant Professor — Center of land use, land management, and the carbon cycle. Agent-based modelling as an approach to integrate GIS, ecological, and human decision-making models to evaluate socio-economic contexts and policy scenarios on changes to land use and land cover, ecological function and the provision of ecosystem services, and human well-being.

Daniel Scott, Ph.D., York, 1998, Professor — climate change, tourism and recreation, protected areas, resource and environmental management

Steffanie Scott, Ph.D., British Columbia, 2002, Associate Professor — global and regional development processes, gender and ethnicity

Bob G. Sharpe, Ph.D., York, 1990, Associate Professor — social, economic, development, GIS

D. Scott Slocombe, Ph.D., Waterloo, 1990, Professor — resource and environmental management, systems approaches, sustainability, ecosystem and landscape management and assessment

Micheal Stone, Ph.D., Waterloo, 1992, Professor — environmental planning, water quality, sediment/water interactions, water resources management

Maria Strack, Ph.D., McMaster, 2006, Associate Professor — interactions between ecology, hydrology, biogeochemistry and soil properties in wetland ecosystems

Su-Yin Tan, Ph.D., University of Cambridge, 2008, Lecturer — Geographic information systems (GIS); remote sensing; spatial statistics; ecosystem modelling and environmental monitoring; public health and medical geography applications; climate change

Tara Vinodrai, Ph.D.,Toronto, 2005, Associate Professor — economic geography, urban and regional economic development and policy, creative and cultural economy of cities, labour market dynamics and workforce development, design, innovation and technological change

Jason Venkiteswaran, Ph.D., Waterloo, 2009, Assistant Professor — biogeochemical cycling of nutrients and related elements, human- and climate-related disruptions

Margaret Walton-Roberts, Ph.D., British Columbia, 2001, Associate Professor — immigration, population

Johanna Wandel, Ph.D., Guelph, 2006, Associate Professor — Human dimensions of global change, Adaptation to climate change, vulnerability, drought management, agriculture, climate change

Brent Wolfe, Ph.D., Waterloo, 1997, Associate Professor — isotope hydrology and paleohydrology, paleolimnology, climate change

FACULTY CROSS-APPOINTED FROM OTHER DEPARTMENTS:

Derek Armitage, Ph.D., Waterloo, 2002, Associate Professor — community-based resource management, conservation and development, political ecology, Canada's North and Indonesia

James Craig, PhD., Buffalo, 2005, Associate Professer — Numerical and analytical method development for modelling of environmental systems, with a focus on groundwater flow, subsurface heat and solute transport, and surface water hydrology.

Goretty Dias, Ph.D., Guelph, 1998, Assistant Professor — life cycle assessment (LCA) and social and environmental issues in supply chains

Rob Feick, Ph.D., Waterloo, 2000, Professor — GIS, multi-criteria methods for land management, spatial decision support systems, public facility systems

Bruce Frayne, Ph.D., Queen's, 2001, Associate Professor — sustainable cities, encompassing the three related areas of human migration, urbanization and food security

Bryan Grimwood, Ph.D., Carleton, 2012, Assistant Professor — Geographies of nature-based travel, tourism, outdoor recreation, and leisure; Tourism ethics and environmental responsibility; Arctic tourism, livelihoods, and special places; Community-based participatory research; Experiential education and outdoor learning

Keith Hipel, Ph.D., Waterloo, 1975, Professor — the development and application of conflict resolution, multiple objective decision making and time series analysis techniques from a systems design engineering perspective. The main application areas of these decision technologies are water resources management, hydrology, environmental engineering and sustainable development.

Ed Jernigan, Ph.D., MIT, 1975, Professor — Perception in the broadest sense, in particular vision and image processing, pattern recognition, non-linear and adaptive systems; More generally, systems thinking and design as knowledge integration

Jane Law, Ph.D., New Brunswick, 2000, Associate Professor — GIS and spatial analysis methodologies and their applications in public health

Stephen Quilley. Ph.D., Manchester, 1996, Associate Professor — Social Innovation, ecological conscience formation and civilizing processes

Dawn Parker, Ph.D., University of California at Davis, 2000, Associate Professor — Development of integrated socio-economic and biophysical models of land-use change; Agent-based modeling; Complexity theory; Geographic information systems; Environmental and resource economics

Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor — collective decision making

Andrea Scott, Ph.D., Waterloo, 2008, Assistant Professor — using data to improve model predictions

Bryan Tolson, Ph.D., Cornell, 2005, Associate Professor — Advanced methods for environmental simulation model development and subsequent use in environmental decision-making; Environmental simulation model calibration, optimization, sensitivity and uncertainty analysis, particularly methods for computationally expensive simulation models.

YORK UNIVERSITY

GRADUATE PROGRAM IN GEOGRAPHY
DEPARTMENT OF GEOGRAPHY, FACULTY OF LIBERAL ARTS & PROFESSIONAL STUDIES
DATE FOUNDED: 1962
GRADUATE PROGRAM FOUNDED: 1967
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 9/1/14-8/31/15: 12 Masters, 8 Ph.D.
STUDENTS IN RESIDENCE: 394 Majors (Undergraduate), 44 Masters, 42 Ph.D.
GRADUATE DIRECTOR: P. Vandergeest
DEPARTMENT CHAIR: J. Mensah
DEPARTMENT ADMINISTRATIVE ASST: K. Cunningham

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Graduate: Peter Vandergeest, Director, Graduate Program in Geography; Undergraduate: Tarmo Remmel, Director of the Undergraduate Program, Department of Geography, Faculty of Liberal Arts & Professional Studies, York University, 4700 Keele St., Toronto, Ontario, Canada M3J 1P3. Telephone (416) 736-5106 (graduate); (416) 736-5107 (undergraduate). Fax (416) 736-5988. Internet: www.yorku.ca/laps/geog

PROGRAMS AND RESEARCH FACILITIES:
UNDERGRADUATE: The Geography Department offers undergraduate degrees in both the Faculty of Liberal Arts & Professional Studies and the Faculty of Science, and a certificate program in GIS and Remote Sensing. Geography majors intending to pursue a teaching career may apply to co-register in the Faculty of Education in their second year. More than 70 courses are offered by the department each year in a full range of topics leading to either a B.A. or B.Sc. degree. The Department also offers a B.Sc. in Environmental Science. Students can take a 90-credit Bachelor Program or, if grade point average permits, choose from among several 120-credit Honors Bachelor Programs, many of them interdisciplinary in nature, including a Specialized Honors B.A. in Geography & Urban Studies.

GRADUATE: Doctoral research is offered in two fields of specialization: Biophysical Processes and Critical Human Geography. The PhD degree requires 2.5 full courses and comprehensive examinations in preparation for dissertation research. Extensive opportunities for professional development in teaching and research skills are available. Support for fieldwork and research costs, as well as conference attendance is available. MA/MSc candidates choose one of two programs: (a) 2 full course equivalents and a thesis, (b) 3 full course equivalents and a major research paper. Research strengths in Critical Human Geography include: Development Studies; Feminist Geographies; Globalization: Economic Restructuring and Cultural Politics; Labour Geography and Labour Market Regulation; Nationalism, Citizenship, Empire and the State; Political Ecology, Landscape and Socio-Nature; Immigrant Communities, Migration and Transnationalism; and Urban Spaces and Social Issues. In Biophysical Processes research strengths include: Biogeography and Biogeochemistry; Fluvial Geomorphology and Hydrology; Geoinformatics; Northern Environments; and Streams, Wetlands and Watersheds. The Graduate Program in Geography also has close ties with interdisciplinary research units at York: the City Institute; York Centre for Asian Research; the Centre for Research on Latin America and the Caribbean; the Centre for Research on Work and Society; the Centre for Refugee Studies; the Centre of Excellence for Research on Immigration and Settlement; and the Institute for Research and Innovation in Sustainability.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
UNDERGRADUATE: Full year program in the Faculty of Liberal Arts & Professional Studies and Faculty of Science. Information on admission requirements and financial assistance is available from the York University Admissions Office.

GRADUATE: Admission to MA/MSc study requires a recognized Honors degree, or equivalent qualification, with a minimum B (or second class) standing. Doctoral applicants are expected to have completed an MA/MSc by the time they enter the program with a minimum B+ average. Funding packages are offered to all graduate students, based on a combination of teaching assistantships, graduate assistantships and scholarships. Funding is provided to doctoral students for up to 6 years of study, and to Masters students for up to 2 years.

GRADUATE FACULTY:
Alison Bain, Ph.D., Cambridge, 2002, Associate Professor — Urban social, urban cultural, and feminist geography; creative city theory and cultural planning; geographies of artistic labour, creative practice, and cultural production; redevelopment and social inclusion in neighbourhoods, cities and suburbs; public space contestations and interventions; gender and sexual identity politics

Ranu Basu, Ph.D., University of Toronto, 2002, Associate Professor — Urban social and political geography/planning; theories of collective action and community organization; inequality and social justice; geographies of public education; geographic information systems (GIS) in the social sciences

Richard Bello, Ph.D., McMaster, 1983, Associate Professor — climate of northern environments; response of the hydrological cycle and carbon budget to global warming

Kean Birch, Ph.D., Oxford Brookes, 2007, Assistant Professor — economic geography; regional socio-economic development; European regional policy; knowledge economies; the emerging bioeconomy; varieties of neoliberalism and neoliberal restructuring; marketization through public-private partnerships; corporate power and governance

Jon Caulfield, Ph.D., York, 1991, Associate Professor — downtown Toronto neighbourhoods; residential redevelopment of deindustrialized space in inner Toronto; old church buildings in inner Toronto; use of photographs in urban research

Qiuming Cheng, Ph.D., Ottawa, 1994, Professor — GIS system development; spatial statistics and fractal modeling; spatial decision support system; non-linear image processing and pattern recognition; mineral resources assessment; water system modeling; mathematical geology

Raju Das, Ph.D., Ohio State, 1996, Associate Professor — political economy of Third World development; state theory and state-society relations; social capital; social movements; agro-globalization; South Asia

Taly Drezner, Ph.D., Arizona State, 2001, Associate Professor — Biogeography; arid lands; disturbance, invasion and dispersal

Lisa Drummond, Ph.D., Australian National University, 2000, Associate Professor — urban geography; gender; Southeast Asia; postcolonial cities; Asian popular culture; Vietnam

William Found, Ph.D., University of Florida, 1966, Professor Emeritus — landscape analysis, program implementation and evaluation, environmental management, Caribbean islands

Bryn Greer-Wootten, Ph.D., McGill, 1968, Professor Emeritus — ontological and epistemological bases of geographic research relationships between social research and public policy processes, especially resource management (energy, global climate change) phenomenology of environment, especially women's narratives

Christian Haas, Ph.D., University of Bremen, 1996, Professor — sea ice and snow thickness; ocean-ice atmosphere interaction; Arctic climate change; airborne geophysics, satellite remote sensing

Lam Hae, Ph.D., Syracuse, 2007, Associate Professor — urban political economy, neoliberal urbanism, politics of urban subcultures, legal geographies, the right to the city

Baoxin Hu, Ph.D., Boston, 1998, Associate Professor — remote sensing of vegetation; photogrammetry; canopy modeling

Jennifer Hyndman, Ph.D., University of British Columbia, 1996, Professor — geographies of forced migration/immigration; humanitarian aid in response to conflict/asylum/disasters; refugee (re)settlement; critical and feminist geopolitics

William Jenkins, Ph.D., Toronto, 2001, Associate Professor — cultural and historical geography; comparative geographies of Irish diasporas; immigration and North American urban history; Canada and the British imperial world; Irish-Canadian studies

Roger Keil, Ph.D., Johann Wolfgang Goethe University, 1992, Professor — urban politics and governance; urban political ecology; global cities and infectious disease

Philip Kelly, Ph.D., University of British Columbia, 1997, Professor — economic geography; labour; immigration and Canada-Asia transnationalism; Philippine and Southeast Asian development

Stefan Kipfer, Ph.D., York University, 2004, Associate Professor — theories of soceity, politics and the city; comparative urban-regional politics and planning; urban social movements and restructuring; colonization, racialization and urbanization; suburbanization, territorial relations and regional planning; public housing: gentrification, privitization and redevelopment

Ute Lehrer, Ph.D., University of California, Los Angeles, 2002, Associate Professor — cities and globalization; economic restructuring and urban form; political economy of the built environment; theory and history of planning, urban design and architecture; built environment, ethnicity and immigration to urban areas

Lucia Lo, Ph.D., Toronto, 1988, Professor — consumer preferences and shopping behaviour; immigrant settlement and urban landscape change; ethnic entrepreneurship and ethnic economies; Chinese immigrants in Toronto; Geomatics and immigrant settlement services; spatial interaction modeling and transportation demand analysis

Christopher Lortie, Ph.D., British Columbia, 2001, Associate Professor — Community; biogeography; invasion biology; climate change; stress interactions

Elizabeth Lunstrum, Ph.D., Minnesota, 2007, Associate Professor — Environmental politics in conflict, post-conflict, and transnational spaces; violence and spatial relations; territory and state formation; gender relations; politics of human mobility; southern Africa

Joseph Mensah, Ph.D., Alberta, 1993, Professor — Critical development theory and Africa; gender and development; space, race, and employment; geography of Aboriginal land claims

Lewis A. Molot, Ph.D., Alaska, 1981, Professor — limnology, biogeochemistry; organic carbon fluxes

Jean Michel Montsion, Ph.D., McMaster, 2009, Associate Professor— urban social and political geography; ethnicity; indigeneity; gateway cities; Singapore

Robert Murdie, Ph.D., University of Chicago, 1968, Professor Emeritus — urban social geography, geography of housing, immigrant settlement in Canadian cities

Glen B. Norcliffe, Ph.D., DSc., Bristol, 1970, Professor Emeritus — industrial restructuring; global economy; cultural production

Linda Peake, Ph.D., Reading, 1983, Professor — feminist geography; gender, race and class relations in urban environments; urban-political geography; methodologies; Guyana

Justin Podur, Ph.D., Toronto, 2006, Associate Professor — environmental modeling; forest fires; landscape fire modeling; climate change

Valerie Preston, Ph.D., McMaster, 1978, Professor — gender and urban labour markets; immigration and Canadian cities; transnational migration and citizenship; social geography

Roberto Quinlan, Ph.D., Queen's, 2000, Associate Professor — aquatic ecology; limnology; paleoecology

John P. Radford, Ph.D., Clark, 1974, Professor Emeritus — social geography of the nineteenth century city; internal structure of cities in the United States South; public policy and intellectual disability

Tarmo Remmel, Ph.D., Toronto, 2005, Associate Professor — multi-dimensional measurement and comparison of spatial patterns; spatial accuracy assessment; forest land cover change; post-disturbance vegetation recovery; open-source GIS/RS algorithm development

André Robert, Ph.D., Cambridge, 1988, Associate Professor — form and process in rivers; experimental fluvial studies

Anders L. Sandberg, Ph.D., McGill University, 1985, Professor — resource management; forest and environmental history

Jamie Scott, Ph.D., Chicago, 1990, Professor — geography and religion; geography and literature; geography and postcolonialism

Steven Tufts, Ph.D., York, 2003, Associate Professor — Geographies of organized labour; labour union renewal; young workers and community economic development; workers in spaces of production/consumption

Peter Vandergeest, Ph.D., Cornell, 1989, Professor — Environments and identities in Southeast Asia; agro-food systems and industrial aquaculture; cultural politics of development

J. David Wood, Ph.D., Edinburgh, 1962, Professor Emeritus — frontiers; settlement; landscape transformation; Ontario; conservation

Patricia K. Wood, Ph.D., Duke, 1995, Professor — citizenship; diversity and politics of identity; urban geography; native/non-native relations; immigration and multiculturalism; western Canada; feminist geography; historical geography; use of non-traditional sources

Douglas Young, Ph.D., York, 2006, Associate Professor — Politics of urban planning and development; legacies of modern urbanism; urban infrastructure

Kathy L. Young, Ph.D., McMaster, 1996, Professor — arctic wetland hydrology; slope hydroclimatology; regional snowmelt modeling

Anna Zalik, Ph.D., Cornell, 2006, Associate Professor — global humanitarian/development studies, international aid industry, oil industry, political economy, comparative historical studies, post-coloniality

QUEBEC

CONCORDIA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING AND ENVIRONMENT

DATE FOUNDED: 1959

DEGREES OFFERED: B.A. Human Environment, B.A. Urban Studies, B.A. Urban Planning, B.Sc. Environmental Geography, B.Sc. Environmental Science, Graduate Diploma (Environmental Assessment), M.Sc. (Geography, Urban and Environmental Studies), Masters of Environment (Environmental Assessment), Ph.D. (Geography, Urban and Environmental Studies).

GRANTED 9/1/15-5/30/16: 172 Bachelors, 4 Diplomas, 28 Masters

STUDENTS IN RESIDENCE: 1205 Specializations and Majors, 157 Masters, 10 Diplomas, 4 PhDs

CHAIR: Monica Mulrennan

DEPARTMENT ADMINISTRATOR: Anne Pollock-McKenna

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Concordia University, Department of Geography, Planning and Environment,
1455 de Maisonneuve Blvd. West, Montreal, Quebec, Canada H3G 1M8. Telephone (514) 848-2424 extension 2050.
Email: Geogplanenviro@concordia.ca
Internet: http://gpe.concordia.ca/

PROGRAMS AND RESEARCH FACILITIES: The Department is located in the Hall building on the main campus in downtown Montréal. It has laboratories for cartography, GIS, and physical geography, and urban planning. Montréal is one of the oldest cities in North America and a vibrant bi-cultural and cosmopolitan city with a prominent international profile. All this provides a stimulating intellectual environment, considerably strengthened by the resources of four large universities which cooperate in many joint projects. The city is an excellent milieu for policy-oriented studies, since it is the home of several international environmental organizations, including the headquarters of the International Union for the Conservation of Nature (IUCN), the Commission on Environmental Cooperation and most recently the Secretariat of Future Earth.

Undergraduate: The Department's curriculum is built around the themes of human environment relationships, the built environment, and environmental science. It offers a full range of B.A. and B.Sc. degrees in these area from a 42 credit Major to a 60 credit Honors or Specialization. BA students take courses in both human and physical geography as well as a range of techniques (GIS, cartography, statistical, research and field methods). The Department also offers BA programs in Urban Studies and Urban Planning as well as a multi-disciplinary BSc in Environmental Science.

Graduate: The Department offers a Doctorate and a Masters of Science in Geography, Urban and Environmental Studies. These programs are designed to provide students with the theoretical foundation and methodological tools necessary to contribute to the understanding of human interventions in the environment. Through its emphasis on specialization and interdisciplinary perspectives, students are given the opportunity to carry out in-depth research work in any of the Department's areas of specialization covering three broad categories of environment: the natural or bio-physical environment; the human, cultural or behavioural environment; and the urban, built or designed environment. In addition to contributing to the advancement of knowledge, students are well placed to enter a wide range of careers in environmental, urban planning and public policy fields.

The Department also offers an internship based Masters of Environment (Environmental Assessment) and a course based Graduate Diploma in Environmental Assessment Our Environmental Assessment programs blend theory, current research, assessment techniques and skills so that students enter internships knowledgeable and well trained. Our interns have been very well received in government, business, industry and NGOs alike.

Areas of established strength are environmental issues and problems, sustainable transportation, urban and metropolitan problems, climate change, river restoration, landscape ecology, community-based conservation, industrial restructuring.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Undergraduate degrees at Concordia for out of province students are four-year programs requiring a minimum of 120 credits. The University encourages both full-time and part-time students to apply. Applicants for the M.Sc. Geography, Urban and Environmental Studies program should have an undergraduate degree (B.A. or B. Sc.) in Geography, Planning, Environmental Science, or an equivalent degree in a related field of study from a recognized university. Applicants for the Masters of Environment (Environmental Assessment) and the Graduate Diploma in Environmental Assessment should have an undergraduate degree in an appropriate field plus knowledge of ecology and geographic information systems with graduation GPAs of 3.3 and 2.7, respectively. Deficiencies may be remedied by appropriate undergraduate courses at Concordia. Applicants for the Ph.D. Geography, Urban and Environmental Studies program should have Master of Arts or a Master of Science in Geography, Urban Planning, Environmental Science, or a related field of study from a recognized university. Applicants are selected on the basis of a sound undergraduate academic record, strong letters of recommendation, and a convincing statement of purpose which clearly describes their academic interest in the program and intended area of research. In addition, admission is contingent on the availability of an appropriate faculty member in the Department to serve as supervisor. Teaching assistantships are available within the department,–and there are opportunities for students to become Research Assistants in one of our many research facilities. Bursaries and scholarships are also available. Applicants are also encouraged to apply for external scholarships from SSHRC, NSERC, FRQNT, and FRQSC.

FACULTY:

Aiken, S. Robert, Emeritus Professor—Tropical deforestation, Cultural geography, Developing country environmental issues

Anderson, Jacqueline M., Emeritus Associate Professor—Cartographic visualization and design, Map user abilities, Map skills education

Biron, Pascale, Professor and Graduate Program Director (M.Sc.)—Hydro-geomorphology and river dynamics, River management in agricultural watersheds, Geographical Information Systems, Morpho-dynamic numerical modelling, Stream restoration for fish habitat

Caquard, Sébastien, Associate Professor—Mapping narratives, Cinematic cartography, Geomedia and the geoweb

Collard, Rosemary, Assistant Professor—Critical geographies, Political ecology and economic geography, Wildlife trade and management

De la Llata, Sylvano, Assistant Professor—Public space, Participatory community planning, Urban design, Social movements and the right to the city, Urban sociology, Open-source urban systems, Planning history, Urban acupuncture, Urban spatial theory, Subaltern urbanisms

Freeman, James, Assistant Professor (LTA), Undergraduate Program Director (Geography)—urban social, cultural and economic geography of Latin America. Rio de Janeiro Mega-events

Gauthier, Pierre, Associate Professor—Urban morphogenesis, History of development and planning practices in Quebec, Impact of normative planning theories on urban form, Transportation infrastructure and the quality of urban form

Gould, Kevin, Associate Professor—Political ecology, critical geography, conservation and development, Cold War Latin America, Guatemala

Jaeger, Jochen, Associate Professor and Graduate Program Director (MEnv)—Landscape ecology, including road ecology, Quantification and assessment of landscape structure and landscape change, Urban sprawl, Ecological modelling, Impact assessment

Kross, Angela – Assistant Professor—Remote sensing, Geographic Information Systems, Ecosystem structure and function, vegetation dynamics, land use change and climate change

Matthews, Damon, Associate Professor—Climate change, Global climate modeling

Mulrennan, Monica E., Associate Professor and Chair—Indigenous resource management, Community-based conservation, Local adaptation to environmental change, Protected areas

Nash, Alan E., Professor—Cultural geography, Restaurant in Montreal, Gravestones in Iceland and the Caribbean

Patterson, Judith, Associate Professor—Geology of modern environments, Impact of fossil fuel combustion on the atmosphere, Environmental impact assessment in the transportation sector

Patterson, Zachary, Associate Professor—Modeling of transportation, Land-use and their linkages

Rantisi, Norma, Professor—Industrial restructuring, Social economy, Workforce development

Roy, André, Professor and Dean of Arts and Science—Hydro-geomorphology, Fluvial dynamics

Rutland, Ted, Assistant Professor—History of urban planning, housing, and policing, Race and racialization, Urban political economy

Slack, Brian, Distinguished Emeritus Professor—Transport geography, Maritime transportation, Container shipping, Port planning, Intermodal transportation

Thornton, Patricia, Distinguished Emeritus Professor—Population geography, Cultural ecology, Mortality as an indicator of social and environmental justice

Townsend, Craig, Associate Professor—Transportation policy, Projects and politics, particularly in relation to public transit, Urban planning in the developing world

MCGILL UNIVERSITY

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: 1945
GRADUATE PROGRAM FOUNDED: 1946
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
GRANTED 9/1/13-8/31/14: 135 Bachelors, 13 Masters, 6 Ph.D.
STUDENTS IN RESIDENCE: 32 Honors, 195 Majors, 169 Minors, 47 Masters, 42 Ph.D.
CHAIR: Nigel Roulet
DEPARTMENT GRADUATE COORDINATOR: Elisa H. David

FOR CATALOGUE AND FURTHER INFORMATION WRITE TO: Graduate Affairs, Department of Geography, McGill University, 805 Sherbrooke Street West, Montreal, Quebec, Canada H3A 2K6.
Telephone (514) 398-4111. Fax (514) 398-7437.
E-mail: grad@geog.mcgill.ca. Website: www.geog.mcgill.ca.

PROGRAMS AND RESEARCH FACILITIES: The department offers integrated programs of study within several fields. Major research locations are urban, temperate and tropical zones, with a history of continuous work in eastern and northern Canada, and Central and South America. Research interests fall into the following clusters: *Earth Systems Science* including global-scale environmental modeling; *Environment and Human Development* including peasant economies and rural livelihoods, and studies of resource-reliant peoples in Arctic and humid tropics; *Environmental Management* including Quaternary paleoecology, palynology, and wetland processes; *GIS and Remote Sensing* including participatory GIS, broad-scale vegetation monitoring, and agent based, environmental, land use, and ecological modeling; *Health Geography* including chronic and infectious diseases; *Land Surface Processes* including hydrology, fluvial geomorphology, permafrost, glacial and periglacial processes, gas, energy and nutrient cycles in peatlands, and greenhouse gas exchange; and *Economic/Political/Urban Geography* including inequality, identity, and critical social geography.

The department has close links with McGill's School of Environment, Global Environmental and Climate Change Centre, Centre for Developing Area Studies, and School of Urban Planning. The Geography Department maintains research laboratories in GIS, soils, remote sensing and image analysis, geomorphology, hydrology, palynology and tropical research. The Geographic Information Centre and the University Computing Centre are located in the same building. The University maintains field stations at Mont St. Hilaire (close to Montreal), Schefferville (northern Quebec), Bellairs (Barbados), and Axel Heiberg Island (High Arctic). These stations provide accommodation, facilities, and support for research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Graduate studies are administered by the Graduate and Postdoctoral Studies office, and a departmental Graduate Affairs Committee; admission to the Master's program requires a Bachelor's degree (or equivalent) with a strong undergraduate record in geography or a related discipline (a qualifying year is also possible). The Master's degree requires three resident semesters, while the Ph.D. requires six resident semesters in addition to a Master's degree. All degrees require a thesis. Many graduate students receive teaching assistantships worth approximately $2500 each semester. In addition, numerous research assistantships for the academic year are available. Assistance is also available for fieldwork through research project funds. Please see the department's web site for additional information.

FACULTY:

Lea Berrang Ford, Ph.D., Guelph, 2006, Associate Professor—socio-ecological determinants of health

Sebastien Breau, Ph.D., UCLA, 2006, Associate Professor—economic and industrial geography, international trade, regional political economy

Peter Brown, Ph.D., Columbia, 1969, Professor—environmental governance, stewardship economics

Gail L. Chmura, Ph.D., Louisiana State, 1990, Associate Professor—biogeography, palynology, wetlands, Quaternary

Oliver T. Coomes, Ph.D., Wisconsin-Madison, 1992, Professor—environment and development, peasant economy, cultural ecology, Latin America

James Ford, Ph.D., Guelph, 2006, Associate Professor—integration of social, physical, and health sciences, and indigenous knowledge in climate change vulnerability & adaptation research

Benjamin Forest, Ph.D., UCLA, 1997, Associate Professor—political representation and redistricting, racial, ethnic, and national identity

Margaret Kalácska, Ph.D., Alberta, 2006, Associate Professor—remote sensing of tropical forest ecosystems, forensic applications of remote sensing, modeling of tropical forest ecosystems

Michel F. Lapointe, Ph.D., British Columbia, 1990, Professor—fluvial geomorphology

Bernhard Lehner, Ph.D., Kassel, 2005, Associate Professor—large-scale modeling of the terrestrial water cycle

Kevin Manaugh, Ph.D., McGill 2013, Assistant Professor—sustainable transportation, spatial justice, decision making processes, GIS

Graham MacDonald. Ph.D., McGill 2012, Assistant Professor—Sustainability Science, global land use, agriculture, food systems, sustainable nutrient management, and land system science

Thomas Meredith, Ph.D., Cambridge, 1979, Associate Professor—environmental studies

Tim R. Moore, Ph.D., Aberdeen, 1971, Professor—biogeochemistry of soils and wetlands

Sarah Moser, Ph.D., Singapore, 2008, Assistant Professor—cultural and urban geography

Natalie Oswin, Ph.D., British Columbia, 2005, Associate Professor—urban cultural politics, sexuality and space, intimacy and the development of postcolonial Singapore

Wayne H. Pollard, Ph.D., Ottawa, 1983, Professor—ground ice and geomorphology of cold climates

Brian Robinson, Ph.D., Wisconsin-Madison, 2011, Assistant Professor—livelihoods, environment and development

Nancy Ross, Ph.D., McMaster, 1997, Professor—social determinants of health, health inequalities in Canada, income inequality as a determinant of the health populations, environment and obesity.

Nigel T. Roulet, Ph.D., McMaster, 1985, Professor—hydrology, biogeochemistry of wetlands

Raja R. Sengupta, Ph.D., Southern Illinois, 2000, Associate Professor—GIScience, environmental modeling, and spatial decision support systems

Renée Sieber, Ph.D., Rutgers, 1997, Associate Professor—public participation GIS and policy models

Ian Strachan, Ph.D., Queen's, 1999, Associate Professor—micrometeorology and hyperspectral remote sensing of agricultural surfaces

Sarah Turner, Ph.D., Hull (UK), 1999, Professor—development, small-enterprise studies, Southeast Asia

Jon Unruh, Ph.D., Arizona, 1997, Associate Professor—human geography and international development - focus on Africa

George W. Wenzel, Ph.D., McGill, 1980, Professor—northern socioeconomic systems and cultural ecology

EMERITI FACULTY:

Sherry Olson, Ph.D., Johns Hopkins, 1965, Professor—social, urban historical, and environmental history

UNIVERSITÉ DE MONTRÉAL

DÉPARTEMENT DE GÉOGRAPHIE
DATE FOUNDED: 1947
DEGREES OFFERED: B.Sc., M.Sc., Ph.D.
GRANTED 6/1/14-5/31/15: 42 Bachelors, 13 Masters, 3 Ph.D.
STUDENTS IN RESIDENCE: 15 Majors, 50 Masters, 27 Ph.D.
STUDENTS NOT IS RESIDENCE: 24 Masters, 12 Ph.D
CHAIR: Patricia Martin
DEPARTMENT ADMINISTRATIVE ASST: Sophie Banville

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Annie Demers, Telephone (514) 343-8052 or Fanny Duval, Telephone (514) 343-6111 extension 37425, Département de Géographie, Université de Montréal, C.P. 6128, Succ. Centre-Ville, Montréal, Québec, Canada H3C 3J7. Fax (514) 343-8008.
E-mail: information@geog.umontreal.ca.
Internet: www.geog.umontreal.ca.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers B.Sc., M.Sc., and Ph.D. programs. At the undergraduate level, students specialize in the study of either the physical or the human environment. Courses on environmental thought and spatial analysis are integrated into each specialization. The undergraduate program also counts with an honors program and an international certificate program. Many undergraduates go on to graduate study, or find jobs in the community, non-profit or public sector.

The master's and PhD programs form the core of our graduate program. Sitting at the intersection of francophone and Anglophone geography, graduate study at the Université de Montréal is highly internationalized and draws on multiple theoretical and linguistic traditions in geography. The department is well supported by external funding agencies, hosts three Canada Research Chairs (in Asian studies, atmospheric biogeosciences, and urban water governance) and has numerous dynamic research groups and laboratories (migration and urbanization; GIS and complex systems; critical development studies; remote sensing; water governance; biodiversity and indigenous peoples; biogeography and environmental change; soil science; transportation geography; fluvial and aeolian geomorphology; and cold regions geomorphology). Two GIS labs, the Geography library and the map library are located on the premises and offer an excellent range of research and training resources and tools for students. The Department of Geography has developed strong ties with several research centers within the university (International Studies; Asian studies; Latin American studies; transportation and networks; Institute for Sustainable Development) as well as with other universities in Latin America, Europe and Canada.

The department also offers several professional degrees, including short programs in spatial analysis and applied Geography. We also offer a professional M.Sc. degree with internships in the work place.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates according to a semester system. The M.Sc. degree may be obtained through two distinct programs. The research master's program has fewer course requirements, allowing students time to develop a thesis project, conduct fieldwork, and complete analysis and writing. The second, a professional master's program, requires that the student complete 18 credits of coursework as well as an internship or two professional written reports. Admission requirements include a Bachelor's degree in geography or in a related field with a GPA of 3.0. The Ph.D. program is designed to train the student in cutting edge research in two or three subfields in geography while they work to complete their dissertation. Required coursework (9 credits) is completed within the first year, after which students complete their qualifying exams and project proposal. A central goal of the program is to provide students training in academic publishing as well as university instruction. Admission requirements include a Master's degree in geography or related field and a demonstrated potential for research. Financial assistance is available through university and departmental fellowships, faculty research grants and teaching and research assistantships offered by the department.

FACULTY:

Pierre André, Ph.D., U. de Montréal, 1985, Associate Professor (retired)—environmental studies; environmental impact assessment.

Nicolas Bélanger, Ph.D., Montréal, 2000, Adjunct Professor—environmental sciences

Olivier Blarquez, Ph.D., École Pratique des Hautes Études, France, 2011, Assistant Professor—Biogeoscience, paleoecology, geographies of fire, disturbance ecology.

Christopher Bryant, Ph.D., London School of Economics, 1970, Full Professor (retired)—urban systems, regional development, spatial organization, rural land use

François Cavayas, Ph.D., Laval University, 1983, Full Professor—remote sensing, geographic information systems.

Claude Comtois, Ph.D., Hong Kong, 1980, Full Professor—transportation, China

Paul Comtois, Ph.D., Laval University, 1982, Full Professor—aerobiology, palynology, aeromycology.

François Courchesne, Ph.D., McGill, 1988, Full Professor—soil science, biogeochemistry.

Rodolphe De Koninck, Ph.D., Singapore, 1970, Full Professor, Canada Research Chair in Asian Studies—Southeast Asia, Agriculture and environment.

Daniel Fortier Ph.D., Laval University, 2005, Associate Professor—cold regions geomorphology.

Jan Franssen, Ph.D., McGill, 2012, Assistant Professor—fluvial geomorphology.

Kathryn Furlong, Ph.D., University of British Columbia, 2007, Associate Professor, Canada Research Chair in urban water governance and public services

François Girard, Ph.D., Laval University, 2008, Assistant Professor—GIScience; biogeography, forestry.

Nicole Gombay, Ph.D., Queen's University, 2003, Associate Professor—economic geography, indigenous geographies.

Thora Herrmann, D. Phil, University of Oxford, 2004, Associate Professor—indigenous geographies, biodiversity.

Violaine Jolivet, Ph.D., Université de Paris 1 - Sorbonne, 2010, Assistant Professor—urban geography; mobility; Caribbean.
James Stephen King, Ph.D., University of Guelph, 2006, Assistant Professor—aeolian geomorphology; arid regions.
Claude Marois, Ph.D., Laval University, 1980, Full Professor—population; metropolitan areas; spatial analysis.
Patricia Martin, Ph.D., University of Colorado, 1997, Associate Professor—development, gender, political violence, Latin America
Liliana Perez, Ph.D., University of Victoria, 2011, Assistant Professor—GIScience; complexity theory; forest dynamics.
Sébastien Rioux, *Ph.D., York University, 2012, Assistant Professor*—Geographies of heath and food, political ecology, feminist theory.
André G. Roy, Ph.D., SUNY-Buffalo, 1982, Professor Emeritous—Fluvial geomorphology.
Brian Slack, Ph.D., McGill, 1972, Adjunct Professor—transportation geography.
Oliver Sonnentag, Ph.D., U. of Toronto, 2008, Assistant Professor, *Canada Research Chair*—Atmospheric biogeosciences in High Latitudes.
Benoit St-Onge, *Ph.D., Univiersité de Montréal, Adjunct Professor*—Remote sensing, forestry.
Julie Talbot, Ph.D., McGill, 2010, Assistant Professor—biogeography, environmental change modeling.
Rémy Tremblay, Ph.D., Université d'Ottawa, 2000, Adjunct Professor—social and cultural geography, tourism.

SASKATCHEWAN

UNIVERSITY OF REGINA

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES
DATE FOUNDED: Geography (1966), Environmental Studies (2009)
GRADUATE PROGRAM FOUNDED: 1972
DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D. (in individual cases with the special permission of the Faculty of Graduate Studies and Research)
GRANTED 9/1/14-8/31/15: 16 Bachelors, 1 Masters
STUDENTS IN RESIDENCE: 43 Majors (Geography), 3 Masters (Geography), 2 Ph.D.s (Geography); 35 Majors (Environmental Studies).
HEAD: Kyle Hodder
DEPARTMENT SECRETARY: Lara Osiowy

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Head, Department of Geography, University of Regina, Regina, Saskatchewan, Canada S4S 0A2.
Telephone (306) 585-4222. Fax (306) 585-4815.
E-mail: geography@uregina.ca
Internet: www.arts.uregina.ca/geography

PROGRAMS AND RESEARCH FACILITIES: The Department offers 4-year B.A. and B.Sc. degrees, 4-year B.A. and B.Sc. honours degrees, and a 4-year B.A. Degree in Environmental Studies. Students who complete a 1-year certificate or 2-year diploma program in GIS/Geomatics from a recognized college (e.g. Saskatchewan Polytechnic) may also earn transfer credits for the Bachelor of Geographic Information Science (B.GISc) degree.

M.A. and M.Sc. degree programs and, in special circumstances, a PhD program are offered in selected areas of Geography. The graduate programs include lectures, seminars, intensive fieldwork and dissertation. The originality of the dissertation is a prerequisite for the degree. Though the programs are individualized, students are encouraged to do interdisciplinary work. Research interests of the Department include: cultural, historical, economic, rural and urban geography, cartography, resource management, remote sensing, geographical information systems (GIS), hydrology, geomorphology, and applied climatology. Particular emphasis is paid to geographical analysis of the problems of the Canadian prairies.

Excellent facilities for cartography, remote sensing, GIS, computer analysis, and graphics are available in the Department's The Environmental Research and Response Analysis (TERRA) Lab. The newest facility in the Department is the Prairie Environmental Process Laboratory (PEPL), including a wet laboratory for analysis of samples; field equipment for in-situ measurement and monitoring, and dedicated office support space for student research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:
Undergraduate and **Graduate:** For details write to the Department Head and/or see www.arts.uregina.ca/geography

FACULTY:
Louis Awanyo, Ph.D., Queen's, Associate Professor—development, political, political ecology, Ghana
Mark Coté, M.Sc., Regina, Instructor—climatology, meteorology, environment, physical
Emily Eaton, Ph.D., Toronto, Associate Professor—economic, political economy, political ecology, agriculture and food, oil
Ulrike Hardenbicker, Ph.D., Bonn, Associate Professor—geomorphology, soils, geo-ecology, slope hydrology
Kyle Hodder, Ph.D., Queen's, Associate Professor and Head—surface hydrology, geomorphology, limnology, glaciated systems
Vanessa Mathews, Ph.D., Toronto, Assistant Professor—urban geography, heritage, urban planning, gentrification
Joe Piwowar, Ph.D., Waterloo, Associate Dean (Undergraduate) and Associate Professor—natural resources, GIS, remote sensing, prairie environments, climate change impacts and adaptations
David J. Sauchyn, Ph.D., Waterloo, Professor—physical, geomorphology, hydrology, climate change
Julia Siemer, Ph.D., Potsdam, Associate Professor—cartography, atlas information systems, GIS
Randy Widdis, Ph.D., Queen's, Professor—historical, population, rural, cultural, borders and borderlands

EMERITUS:
Marilyn Lewry, M.A. Regina, Instructor Emeritus—historical geography, geography of Saskatchewan
Alexander Paul, Ph.D., Alberta, Professor Emeritus—climatology, railroad geography, Canada, USA
Hansgeorg Schlichtmann, Ph.D., Tubingen, Professor Emeritus—thematic cartography, cartographic semiotics, cultural, Western Europe

ADJUNCT FACULTY:
Elaine Barrow, Ph.D., Victoria
David Gauthier, Ph.D., Waterloo
Stefan Kienzle, Ph.D., Heidelberg
Glenn Sutter, Ph.D., Regina
Ken Van Rees, PhD., Saskatchewan

LATIN AMERICA

ARGENTINA

INSTITUTO DE GEOGRAFÍA "ROMUALDO ARDISSONE" DE LA UNIVERSIDAD DE BUENOS AIRES

TIPO DE INSTITUCION: Pública, académica
ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Investigación
FECHA DE FUNDACION: 1947
SITIO WEB: http://geografia.institutos.filo.uba.ar/

PARA MAS INFORMACION CONTACTAR: Jorge Oscar Blanco, Director, Puán 480 - 4º1406 - Ciudad Autónoma de Buenos Aires Argentina, Teléfono: 54-11-4432-0606, Fax: 54-11-4432-0121, interno 169 iigeo@filo.uba.ar

MISION DEL INSTITUTO: El Instituto de Geografía es el ámbito de la Universidad de Buenos Aires dedicado a la investigación en esta disciplina. En el Instituto se desarrollan diversas líneas de investigación en Geografía, se promueve la formación de investigadores y la articulación con las actividades docentes, y se desarrollan actividades conjuntas con el sector público y con universidades del país y del exterior.

ESTRUCTURA Y ORGANIZACIÓN: El Instituto se rige acorde con el Reglamento de Institutos de la Universidad de Buenos Aires. El Director es acompañado en la gestión por un Comité Académico y una Secretaria Académica. Son miembros del Comité: el Director, la Secretaria Académica, el Director del Departamento y los representantes de: investigadores, becarios, estudiantes investigadores y no docentes. Los miembros del Comité son elegidos por sus representados por voto directo, secreto y obligatorio.

FINES: Son funciones del Instituto de Geografía de la Universidad de Buenos Aires: a) Elaborar y ejecutar planes de investigación disciplinarios y multidisciplinarios. b) Potenciar la articulación de la Geografía y de nuestros investigadores con los problemas reales y concretos de la sociedad argentina y latinoamericana. c) Contribuir a la formación de recursos humanos a través de la dirección de tesis de grado, maestría y doctorado. d) Promover la cooperación e integración con otros ámbitos académicos y científicos del resto del país y del medio internacional.

PROGRAMAS QUE SE OFRECEN: El Instituto cuenta con Programas, grupos de trabajo y proyectos, que nuclean las actividades de los investigadores. Entre los programas y grupos de trabajo se encuentran: Programa de Transporte y Territorio (PTT)-Entre los objetivos del PTT se encuentran: consolidar un ámbito orientado al desarrollo de conocimientos teóricos, empíricos y aplicados sobre temas de transporte; promover actividades académicas sobre temas de Geografía del Transporte; generar un espacio de información, discusión y reflexión favorable al desarrollo de tesis de grado, postgrado y doctorado; prestar asesoramiento a organismos públicos, empresas privadas y organizaciones de la sociedad civil sobre temas de competencia del Programa.

Programa de Economías Regionales y Estudios Territoriales- PERT- El PERT es un ámbito de investigación académica, docencia, transferencia y divulgación, orientado al estudio del desarrollo territorial, en particular en problemáticas vinculadas con la cuestión rural y local y las economías regionales. Las formas de producción del territorio y la cuestión institucional en relación a la situación social y económica de la población de menores recursos (en particular la población localizada en zonas rurales y ámbitos locales) constituyen los ejes básicos de nuestra preocupación teórica y empírica actual.
Programa de Investigaciones en Recursos Naturales y Ambiente - PIRNA- El objetivo del Programa es generar conocimientos y capacitar investigadores en el uso y manejo de los recursos naturales y del ambiente, poniendo el acento en los aspectos relativos a las configuraciones territoriales resultantes de los procesos socioeconómicos. En los últimos años el tema central abordado es el de riesgo ambiental y vulnerabilidad social, para los peligros emergentes de inundaciones, accidentes tecnológicos, invasiones biológicas e incendios forestales.

Programa de Desarrollo Territorial y Estudios Metropolitanos (PDTEM) El proyecto actual del PDTEM se propone analizar y producir información sobre las transformaciones y procesos territoriales en la región metropolitana de Buenos Aires en las dos últimas décadas (años noventa y dos mil), resaltando las semejanzas y diferencias entre ellas, y tomando como referencia la experiencia de otras grandes metrópolis latinoamericanas. El supuesto clave es que se habrían registrado en las dos últimas décadas dos procesos de crecimiento económico con estrategias diferentes, uno de sesgo netamente neoliberal y el otro neodesarrollista, separados por una profunda crisis económica y política.

Grupo de Agua y Energía- El Grupo de Agua y Energía es un espacio pensado para la investigación, la docencia y la transferencia de conocimiento en temas vinculados con el desarrollo y gestión hídrico-energética del territorio, produciendo informes técnicos y de investigación aplicada, ponencias, producción cartográfica, etc.

Grupo de Investigación y desarrollo en la Enseñanza de la Geografía – Indegeo Se constituye a fines de 2004, a partir de la necesidad de crear un espacio de investigación y reflexión acerca de las particularidades de la enseñanza de la geografía en nuestro país, para construir modelos propios de interpretación didáctica que den respuesta teórica y práctica a los distintos problemas que atañen a las prácticas docentes cotidianas. Se fundamenta, a la vez, en el hecho de reconocer la necesidad de fortalecer los vínculos entre universidad y escuela, potenciando la transferencia de saberes e instrumentos para hacer frente a las múltiples demandas de las que es objeto la profesión docente.

Grupo de estudios Cultura, naturaleza, territorio.De reciente formación, consituye, a partir de preocupaciones surgidas respecto de los procesos procesos y las narrativas vinculadas con la globalización, un ámbito colectivo de reflexión, producción y difusión en torno a tres interrogantes centrales:¿Qué papel han jugado las ideas sobre la naturaleza y la cultura en los procesos de producción territorial?, ¿Qué implicancias han tenido las transformaciones territoriales en la producción de ideas sobre la naturaleza y la cultura?¿Cómo ha construido y construye la Geografía, en tanto saber disciplinar, sus modos de mirar, comprender e imaginar la cultura y la naturaleza en su relación con los procesos de producción territorial? Los debates pasados y presentes en las áreas de Estudios Culturales, Estudios Visuales, Estudios sobre Urbanización, Historia de las Ideas, Historia Territorial y Ambiental, Filosofía de las Técnicas, Economía Urbana, Geografía Histórica, Cultural y Económica nutren teórica y metodológicamente los puntos de vista de este Grupo de Estudios.

MIEMBROS: El Instituto cuenta actualmente con cerca de 100 integrantes, entre los que se encuentran investigadores con diversos grados de formación, becarios, tesistas y alumnos que realizan sus primeras prácticas de investigación.

PUBLICACIONES: El Instituto cuenta con dos publicaciones periódicas activas. La Serie Monográfica "Cuadernos de Territorio", creada en 1989, ya posee 15 títulos en su haber, algunos de los cuales están digitalizados. La segunda publicación activa es la revista electrónica "Transporte y Territorio": //revistascientificas.filo.uba.ar/index.php/rtt, fundada en 2009, de la cual ya se han editado 11 números a la actualidad. Como parte del acervo de publicaciones se puede acceder también a la revista virtual "Litorales", de la que se publicaron 7 números entre 2002 y 2005. En agosto de 2011 se publicó el N°1 del "Boletín Electrónico", con el objetivo fundamental de difundir las actividades y la producción del Instituto y estrechar los lazos con la comunidad académica, profesional, política, y con la sociedad en general.

Cuadernos de Territorio:
http://geografia.institutos.filo.uba.ar/grupo/cuadernos-de-territorio

Revista Transporte y Territorio:
http://revistascientificas.filo.uba.ar/index.php/rtt

UNIVERSIDAD NACIONAL DE GENERAL SARMIENTO

INSTITUTO DEL CONURBANO
FECHA DE FUNDACION: 2010
TECNICATURA SUPERIOR UNIVERSITARIA EN: Sistemas De Informacion Geografica
TITULOS OFRECIDOS: Técnico Superior Universitario en Sistemas de Información Geográfica
RESPONSABLE DE LA CARRERA: Lic. Leonardo Di Franco

PARA PEDIR UN CATOLOGO Y MÁS INFORMACIONE, FAVOR DE ESCRIBIE A: Lic. Leonardo Di Franco, Coordinadora, Laboratorio de Sistemas de Información Geográfica. Instituto del Conurbano. Universidad Nacional de General Sarmiento. Juan María Gutierrez 1150. Los Polvorines, CP: 1613. Malvinas Argentinas. Provincia de Buenos Aires. REPUBLICA ARGENTINA. E-Mail: mmiragli@ungs.edu.ar. Internet: http://www.ungs.edu.ar/areas/tec_sup_sistema_informacion_geografica/1/tecnico-superior-en-sistemas-de-informacion-geografica.html

PLAN ACADEMICO: En total, el plan de estudios está conformado por 21asignaturas (incluidos dos niveles de inglés) por un total de 1751 horas de clase. Las asignaturas contenidas en el plan de estudio responden al perfil que se pretende formar y se organizan en cuatro ejes: formación general, análisis territorial, formación en SIG (incluida la formación en softwares específicos y de uso más general y en cartografía) y práctica pre-profesional. Las materias de formación general tienen por objeto proveer a los estudiantes herramientas y conocimientos generales útiles para su trabajo: conocimientos básicos de inglés (gran parte de los manuales están escritos en ese idioma), Problemas Socio Económicos Contemporáneos (PSEC) y el Laboratorio intermenciones (diagnóstico ambiental) son también instancias ideales para la socialización en la universidad. El laboratorio es también un espacio curricular de síntesis y práctica en el uso de los SIG. Dentro de las asignaturas de formación general se incluyen: PSEC, Inglés I, Inglés II, y Laboratorio Intermenciones (diagnóstico ambiental) (total 14 horas). La bibliografía existente señala de manera reiterada la necesidad de incluir instancias de formación en el análisis territorial. Se prevé que los estudiantes cursen geografía y análisis territorial, ambas asignaturas en dos niveles. (total 20 horas). Más de una tercera parte del total de horas del programa de estudios está centrada en la formación específica en SIG y temas conexos. Dentro de este eje específico de formación hay materias más generales como Introducción a la cartografía, sensores remotos y sistemas de información geográfica y aquellas más específicas como Programas de SIG (donde se enseñará ARC GIS, entre otros programas). Dentro de las materias referidas a los sistemas de información geográfica, cartografía y teledetección se incluyen: Introducción a la cartografía, sensores remotos y sistemas de información geográfica, Introducción a la teledetección y al procesamiento de imágenes satelitales, Cartografía temática, Programas de SIG, Informática aplicada a los SIG, I y II, Estadística aplicada a los SIG, Construcción y gestión de bases de datos aplicadas a SIG (total 46 horas).Por último, se considera que un eje fuerte del programa de estudios es que los estudiantes tengan una aproximación desde la práctica misma por lo cual se han incluido tres talleres de aplicación y un taller final de proyecto cartográfico. Dentro de los talleres de práctica se incluyen: Taller de aplicación inicial, Taller de aplicación 1, Taller de aplicación 2, Taller de aplicación 3 y el Taller final de aplicación: Proyecto cartográfico (total 23 horas). Debe tenerse en cuenta que la práctica también está presente en otras materias del programa como el Laboratorio intermenciones (diagnóstico ambiental), Cartografía temática o Geografía, entre otras.

Contenidos mínimos de las materias:
Eje de formación general
Inglés I: Convenciones de los discursos escritos. Texto y contexto. Estrategias de lectura. Funciones retóricas predominantes en los textos académicos. Desarrollo proposicional, estructura de la información. Sistema sintáctico. Exponentes lingüísticos. Nociones lógico semánticas. Cohesión lógica.

Inglés II: Convenciones de los discursos escritos. Estrategias de lectura. Nociones lógico-semánticas. Tiempos verbales. Verboides. Voz pasiva. Cadenas léxicas. Defensa y refutación de una posición teórica. Presentación de evidencia. Contraste y énfasis.
Laboratorio Intermenciones (diagnóstico ambiental): Identificación y resolución de un problema de conocimiento surgido a partir de un problema real en el marco de la realización de un diagnóstico ambiental municipal. El desarrollo de la asignatura se realiza bajo la modalidad de trabajo en taller a través de la resolución de un problema real.

Problemas socioeconómicos contemporáneos, PSEC: De la "República posible" a la experiencia peronista. De la crisis del populismo al modelo neoconservador. Reconfiguración de la sociedad argentina. Diferentes enfoques para abordar los problemas socioeconómicos en la Argentina actual, basados en investigaciones recientes. Examen de categorías empleadas en el análisis.

Eje de SIG y temas conexos
Cartografía temática: Cartografía. Semiótica. Teorías de representación. Teorías de interpretación. Cartogramas. Cartodiagramas. Variables visuales. Construcción de cartografía temática.

Construcción y gestión de bases de datos geográficas aplicadas a SIG: Geodatabase. Introducción. Diseño. Construcción. Implementación. Feature classes. Feature dataset. Multiusuarios. Topología. Compresión y compactación de las bases de datos. Atributos.

Estadística aplicada a los SIG: Estadística avanzada (modelos multivariados de correlación, análisis factorial y de correspondencias múltiples). Estadísticas espaciales y aplicación en diversos campos (transporte, localización de unidades sanitarias y comercios, cálculo de probabilidades de riesgos).

Informática aplicada a los SIG, parte I: Uso de paquetes estadísticos (SPSS, STATA, etc.). Modelos
Informática aplicada a los SIG, parte II: Mapas en la Web, Programación básica en C++, Macromedia. Preparación de mapas para publicar en internet. Servidores de mapas. Estandarización cartográfica. Programas para editar mapas en la red. ArcIms.

Cartografía, sensores remotos y sistemas de información geográfica: La cartografía. Sistemas de proyecciones cartográficas. Elementos planialtimétricos. Elementos de una carta topográfica. Escalas. Mediciones. Elaboración de perfiles. Cartografía temática y digital. Georreferenciación. GPs. Teledetección. Composición de las imágenes. Interpretación de imágenes. Sistemas de Información Geográfica

o Territorial. El SIG como herramienta de gestión e investigación. Aplicaciones a estudios urbanos, ambientales, etc.

Teledetección y procesamiento de imágenes satelitales: Sensores remotos. Teletedetección. Espectro electromagnético. Resolución espacial. Resolución espectral. Interpretación visual de imágenes satelitarías. Interpretación digital de imágenes satelitarías.

Programas de SIG: Programas vectoriales: ARC GIS, MapInfo. Programas raster: ERDAS, ENVI. Programas de uso libre. Programas de uso restringido

Eje de análisis territorial
Análisis territorial I: Espacio y territorio. Sociedad y naturaleza. Construcción y estructura del territorio. Escalas. Teorías sobre el territorio. Herramientas para el análisis territorial. Gestión del territorio.

Análisis territorial II: Herramientas y fuentes para el análisis territorial. Herramientas cualitativas básicas: observación, observación participante, lectura de fuentes estadísticas y documentales, grupos focales, entrevistas.

Herramientas cualitativas para el análisis territorial y SIG: Herramientas cuantitativas para el análisis territorial. Fuentes secundarias: censos y encuestas nacionales, información y datos secundarios provinciales y municipales. De las fuentes a los SIG.

Geografía I: Geografía Física General. Geografía Física de la República Argentina. Condiciones geológicas y climatológicas. Condiciones edáficas, biogeográficas. Cuencas hídricas. Regiones.

Geografía II: Los estudios urbanos y regionales en América Latina y en la Argentina. Historia de la urbanización. La geografía física y los estudios urbanos. Algunos elementos para analizar una ciudad o un sistema de ciudades. La estructura interna de la ciudad. Sistemas regionales y nacionales de asentamiento. La actividad económica y los asentamientos humanos. El panorama reciente en geografía urbana: Algunos temas de discusión.

Eje de práctica pre-profesional
Taller de aplicación inicial: Criterios de definición de regiones. Uso de la cartografía. Uso de los sensores remotos. Uso de los sistemas de información geográfica

Taller de aplicación 1: Definición de unidades territoriales a nivel nacional. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala nacional

Taller de aplicación 2: Definición de unidades territoriales a nivel regional. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala regional

Taller de aplicación 3: Definición de unidades territoriales a nivel municipal. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala municipal

Taller final de aplicación: Proyecto cartográfico: Aplicación de conceptos y metodologías de investigación en ciencias sociales. Definición de objeto y objetivos de estudio. Integración de escalas espacial y complejidad temática

UNIVERSIDAD NACIONAL DEL SUR

DEPARTAMENTO DE GEOGRAFIA y TURISMO
FECHA DE FUNDACION: 1956
TITULOS OFRECIDOS de POSGRADO: Doctorado en Geografía y Magíster en Geografía. Especialización en Turismo Rural y Comunitario. Maestría en Desarrollo y Gestión Territorial Maestría en Procesos Locales de Innovación y Desarrollo Rural (PLIDER)
TITULOS OFRECIDOS de GRADO: Licenciatura en Geografía, Profesorado en Geografía, Licenciatura en Turismo, Licenciatura en Oceanografía. Tecnicatura en Cartografía, Sistemas de Información Geográfica y Teledetección, Arquitectura.
CANTIDAD DE ALUMNOS DE GRADO ENTRE TODAS LAS CARRERAS DE GRADO: 1682 Alumnos
CANTIDAD DE ALUMNOS DE DOCTORADO y de MAESTRIA: 72 Alumnos
DIRECTORA DEL DEPARTAMENTO: Mg. Stella Maris Visciarelli
SECRETARIA ACADÉMICA DEL DEPARTAMENTO: Mg. Cecilia Rodriguez
DIRECTOR DEL PROGRAMA DE POSGRADO PARA DOCTORADO: Dr. Roberto Bustos Cara
DIRECTORA DEL PROGRAMA DE POSGRADO PARA MAESTRÍA: Dra. Alicia Campo
SECRETARIA DE POSGRADO: Dr. Jorge O. Gentili
SECRETARIA DE EXTENSIÓN: Lic. María Paula Michalijos

PARA MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: LIC. MARÍA PAULA MICHALIJOS. DEPARTAMENTO DE GEOGRAFIA Y TURISMO-UNS -Calle: 12 de Octubre y San Juan- 4to piso- Ciudad Bahía Blanca, País: Argentina.Teléfono y fax: 54-291-4595144. Mail: extensiondgyt@uns.edu.ar - Página de la Universidad: www.uns.edu.ar – Página del departamento de Geografía y Turismo http://www.geografiayturismo.uns.edu.ar/

PROGRAMAS E INSTALACIONES DE INVESTIGACION: el Departamento de Geografía y Turismo cuenta con varios centros de investigación y un conjunto de actividades que contribuyen al apoyo académico y profesional de la disciplina: Centro de Documentación y Producción Cartográfica, Laboratorio de Cartografía Digital, Laboratorio de Geotecnologías (LabGeoT), Biblioteca Especializada en Geografía, Consejo Editorial y Comité Editorial de la Revista Universitaria de Geografía, CIUR- Estudios Territoriales: Centro de Investigación Urbano-Regionales, Grupos de Investigación (PGIs y PGI TIR Proyecto, de InterésRegional-), Cursos de Capacitación, de Perfeccionamiento y de Actualización para Docentes, Organización de Jornadas, Encuentros y Congresos.

PROGRAMA DE POSGRADO: El Doctorado y Magister en Geografía es personalizado, los alumnus deben obtener 100 horas entre cursos y seminarios para el Doctorado y los 80 para la Maestría. Cada año en el mes de marzo se publica el calendario con los cursos ofrecidos. Colaboran en el dictado de los mismos profesores de

Universidades Nacionales y del exterior. Las temáticas responden a las diferentes temáticas de los tesistas.

INCUMBENCIAS DE LOS PLANES DE ESTUDIO:
Licenciatura en Geografía
Duración: 4 años y un cuatrimestre
Los graduados en esta carrera podrán delimitar y realizar el diagnóstico de regiones geográficas con fines de ordenamiento y organización territorial. Participar en equipos interdisciplinarios para planificar, trabajar para la utilización racional de los recursos naturales y culturales; evaluar los cambios operados por factores de origen natural o antropogénico e interpretar los fenómenos que el proceso de globalización impone en todas las escalas espaciales y temporales.

Profesorado en Geografía
Duración: 4 años y un cuatrimestre
Los graduados en esta carrera podrán ejercer la profesión docente en los diferentes niveles de Educación Primaria y Educación Secundaria, en establecimientos públicos y privados, también en el nivel Terciario y Universitario. Planificar, orientar y evaluar el proceso de enseñanza y de aprendizaje de la Geografía en los diferentes niveles educativos. Participar y elaborar proyectos individuales e interdisciplinarios vinculados a las cuestiones pertinentes a la tarea docente y a la gestión educativa.

Licenciatura en Turismo
Duración: 5 años
Los graduados en esta carrera podrán desempeñarse profesionalmente en la investigación, en la planificación de los recursos, en la gestión, tanto económica como cultural, acorde a los requerimientos y necesidades de la región y del país. Elaborar políticas de desarrollo, promoción y gestión del turismo. Formular, elaborar, dirigir planes y evaluar planes de desarrollo y proyectos turísticos. Organizar, coordinar y gerenciar empresas turísticas. Desarrollar actividades de gestión operativa y gerencial en empresas y organismos de turismo tanto de competencia de nivel público como privado. Coordinar equipos interdisciplinarios de planeamiento del desarrollo de los sectores turísticos y recreativos.

Licenciatura en Oceanografía
Duración: 5 años
Los graduados en esta carrera podrán ejercer toda actividad relacionada a la investigación y la profesión en carácter independiente o en relación de dependencia a través de trabajos específicos, asesoramientos, arbitrajes, pericias, tasaciones, etc. El ámbito de aplicación de estos alcances corresponde a toda masa de agua y su zona de influencia, los océanos, los mares, grandes lagos, sus fondos y subsuelos, entre otros. La carrera tiene varias orientaciones: física marina, geología marina, química marina y biología marina.

Tecnicatura en Cartografía, Sistemas de Información Geográfica y Teledetección.
Duración: 3 años
Las actividades profesionales del técnico consisten en la realización de tareas de asesoramiento y análisis de los datos espaciales en organismos públicos (Universidades, Municipios, Gobernaciones) o de iniciativa privada (Consultoras). Estas tareas se podrán ejercer a través de: organismos y servicios permanentes de investigación y estudios ambientales, integrantes de entidades científicas, culturales, económicas y administrativas, prestación de servicios dirigidos a la realización de determinados estudios o investigaciones de interés para instituciones públicas o particulares, inclusive pericias y arbitrajes, prestación de servicios de carácter permanente o temporario bajo la forma de consultoría o asesoría a requerimiento de organismos públicos o privados.

Arquitectura
Duración: 5 años
Las incumbencias de los Arquitectos son: Diseñar, proyectar, dirigir y ejecutar la concreción de los espacios destinados al hábitat humano, obras de recuperación, renovación, rehabilitación y refuncionalización de edificios, conjuntos de edificios y de otros espacios. Proyectar, dirigir y ejecutar la construcción de edificios, conjuntos de edificios y los espacios que ellos conforman, con su equipamiento e infraestructura y otras obras destinadas al hábitat humano y todo lo concerniente a la higiene y seguridad en obras de arquitectura. Efectuar la planificación arquitectónica y urbanística de los espacios destinados a asentamientos humanos. Realizar estudios e investigaciones referidos al ordenamiento y planificación de los espacios que conforman el hábitat y a los problemas relativos al diseño, proyecto y ejecución de obras de arquitectura. Participar en planes, programas y proyectos de ordenamiento físico-ambiental del territorio y de Participar en la elaboración de normas legales relativas al ordenamiento y planificación de los espacios que conforman el hábitat humano. Realizar arbitrajes, peritajes, tasaciones y valuaciones relacionadas con el ordenamiento y planificación de los espacios que conforman el hábitat y con los problemas relativos al diseño, proyecto y ejecución de obras de arquitectura.

PLAN ACADEMICO, REQUISITOS DE ADMISION, AYUDA FINANCIERA: La enseñanza en la Universidad Nacional del Sur es libre y gratuita. Los cursos de grado no están arancelados. Las materias se cursan por cuatrimestre. El primer cuatrimestre comienza en marzo hasta finales de junio. El segundo cuatrimestre comienza en agosto hasta principios de diciembre. Hay un programa de intercambio de alumnos extranjeros con otras Universidades, que administra la Secretaria General de Relaciones Institucionales y Planeamiento. El contacto es: sriyp@uns.edu.ar. La inscripción al Programa de Posgrado es gratuita y la admisión queda sujeta al Reglamento de Estudios de Posgrados Académicos. Los cursos para la obtención de los créditos son arancelados. Consultas en posgradodgyt@uns.edu.ar

PROFESORES de la UNIDAD ACADÉMICA DE GRADO
Angeles, Guillermo Raul—GIS y Teledetección
Bagnulo, Cecilia Beatriz—Geografía Rural y Teoría del Planeamiento
Benedetti, Graciela—Biogeografía Cultural y Teoría y Epistemología de la Geografía
Bustos, Roberto Nicolas—Desarrollo Territorial y Geografía Regional Argentina
Campo, Alicia Maria—Geografía Física
Caramelli, Sabrina Maricel—Turismo y Organización de los Servicios Turísticos
Ercolani, Patricia Susana—Geografía del Turismo
Fittipaldi, Rosa Angela—Geografía Histórica y Geografía Económica, Política y Social
Gallucci, Soledad—Gestión de la Calidad en Turisno
Garriz, Eduardo Julio—Geografía Urbana
Geraldi, Alejandra—GIS y Teledetección
Gil, Valeria—Congresos y Convenciones
Gil, Verónica—Geografía Física
Guerrero, Ana Lia Del Valle—Geografía de América y Oceanía y Geografía Turística
Haag, María Isabel—Geografia de los Recursos Turísticos
Jonke, Brenda Laura—Turismo y organización de los Servicios Turísticos
Lorda, Maria Amalia—Didáctica y Práctica de la Geografía
Melo, Walter—Cartografía Náutica
Minervino, Mario Roberto—Patrimonio Histórico y Cultural
Monachesi, Alejandra—Gestión Ambiental y Metodología de la Investigación Rural
Perez, Maria Ines—Técnicas y Metodología de la Investigación en Geografía
Piccolo, Maria Cintia—Hidrografía y Oceanografía
Prieto, María Natalia—Didáctica y Práctica de la Geografía
Rodriguez, Cecilia—Planeamiento Turístico
Rosake, Paola Alejandrina—Introducción al Turismo
Rosell, Maria Patricia—Geografía Ambiental de la Argentina
Rubio, Maria Laura—Cartografía Automatizada
Sili, Marcelo Enrique—Organización y dinámica del espacio rural y Mercosur

Tonellotto, Sandra—Geografía Regional Argentina
Trellini, Mauro—Análisis Cuantitativo de la Actividad Turística
Uboldi, Julio Alberto—GIS y Teledetección
Vaquero, Maria Del Carmen—Planificación Turística y Geografía de los Recursos Turísticos
Visciarelli, Stella Maris—Geografía América y Oceanía y Geografía Turística
Zingoni Segatori, Jose María—Gestión del Patrimonio Urbano

UNIVERSIDAD NACIONAL DE MAR DEL PLATA

FACULTAD DE HUMANIDADES
DEPARTAMENTO DE GEOGRAFÍA
DATE FOUNDED: 1991
DEGREES OFFERED: Profesorado en Geografía, Licenciatura en Geografía
MAJOR: Problemática Territorial Argentina
POINT OF CONTACT: Prof. Titular Ana Maria Liberali, email: geofhum@mdp.edu.ar. Prof. Adjunta: Adriana Martínez. Ayudante de Primera: Ana Laura Berardi

FOR FURTHER INFORMATION WRITE TO: Facultad de Humanidades–UNMDP
Funes humana@mdp.edu.ar. http://www.mdp.edu.ar/. Teléfax: (0223) 475-2277.

PROGRAMS AND RESEARCH FACILITIES: Entendemos que la Geografía constituye un campo dentro de las Ciencias Sociales, cuya especialidad y objeto de estudio están representadas por la dimensión territorial de los procesos sociales. Pero atendiendo no solo al perfil de quienes integran a nuestra carrera, sino también a lo que se espera de un profesional egresado de esta Facultad ,pensamos que no se debe descuidar la valorización histórica y tradicional del geógrafo como analista y trabajador del marco fisico-natural. Es razón de esto planteamos una división interna de la carrera en las siguientes áreas: Fisco-natural, Social, Instrumental operativa, territorial. Cada una de ellas se constituirá en el territorio natural de discusión y construcción de las propuestas especificas para cada ámbito diferenciado. Desde este nuevo instrumento institucional, anualmente se elaboraran las propuestas de la transferencia de conocimiento (sobre la base de contenidos mínimos) investigación y de extensión.

Objetivos: Que los alumnos determinen la influencia de los procesos socioeconómicos en la organización y apropiación del territorio nacional. Que los alumnos analicen las relaciones centro-periferia y sus consecuencias socioterritoriales sobre el territorio argentino.Que los alumnos apliquen los conceptos analizados al estudio de las regiones Argentinas.

- UNIDAD 1: Análisis Regional. Formación espacial, formación social y formación regional. El sistema internacional. Políticas macroeconómicas e inserción regional.
- UNIDAD 2: Fases de Desarrollo. Proceso de asignación de los recursos. Implicancias socio territoriales de la inserción de la Argentina en el mercado mundial.
- UNIDAD 3: El Territorio Argentino. Límites, fronteras e integración. Aparato productivo. Circuitos comerciales y conectividad. Aspectos demográficos. Sistema regional.
- UNIDAD 4: Región Pampeana. Inserción en el contexto internacional. Análisis socio-económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 5: Región del Noroeste Argentino. Inserción en el contexto nacional. Análisis socio económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 6: Región del Noreste Argentino. Inserción en el contexto nacional. Análisis socio económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 7: Región de Cuyo. Inserción en el contexto nacional. Análisis socioeconómico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 8: Región de Patagonia. Inserción en el contexto nacional. Análisis socio-económico. Consecuencias político-territoriales. Problemáticas regionales.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Se denominan *Becas de Investigación* a los estipendios que, a título de promoción, sin implicancia alguna de relación laboral, se abonan para la formación de recursos humanos en investigación en el ámbito de la Universidad Nacional de Mar del Plata, a estudiantes, graduados y docentes, que deseen perfeccionar su formación en disciplinas científicas, tecnológicas, humanísticas y sociales.

UNIVERSIDAD NACIONAL DE TUCUMÁN

FACULTAD DE FILOSOFIA Y LETRAS
INSTITUTO DE ESTUDIOS GEOGRAFICOS "Dr. Guillermo Rohmeder"
DATE FOUNDED: 1940 y refundado en 1981
DIRECTOR: Dra. Ana Isabel Rivas (2007-2009)
DEGREES OFFERED: M.S., Ph.D. en Ciencias Sociales orientación Historia o Geografía
GRANTED: 9 Masters y 2 Ph.D.s

FOR FURTHER INFORMATION WRITE TO: Dra. Ana Isabel Rivas. Av. Benjamín Aráoz 800, San Miguel de Tucumán, Argentina. Código Postal 4000.
Telephone (0054) 381-4107348. Fax (0054) 381-410171.
E-Mail: ieg@filo.unt.edu.ar. Internet: http://www.filo.unt.edu.ar.

PROGRAMS AND RESEARCH FACILITIES: El Instituto de Estudios Geográficos "Dr. Guillermo Rohmeder" (I.E.G.) desarrolla sus actividades académicas desde 1940, peor luego de un amplio periodo de inactividad fue reabierto en 1981. Desde su creación, el Instituto de Estudios Geográficos planteó como objetivos principales: a) llevar a cabo investigaciones en el ámbito regional y b) divulgar los resultados de dichas investigaciones a través de publicaciones periódicas (series monográficas, libros, etc.) y de las labores docentes en la carrera de grado (Profesorado y Licenciatura en Geografía) y postgrado. Actualmente el I.E.G. está integrado por geógrafos e historiadores que se desempeñan como docentes e investigadores. También participan activamente en las tareas de investigación los becarios de postgrado y los estudiantes de grado y técnicos. Desde la década del ´80 el equipo académico se orientó a la generación de conocimiento en el área de las Ciencias Sociales encarando problemáticas del ámbito provincial y regional. En este marco han surgido diversos programas y proyectos de investigación orientados hacia los estudios sociales y naturales de la provincia de Tucumán y del conjunto regional del norte argentino. Estos proyectos se ejecutan con el financiamiento de diversas instituciones nacionales como la Secretaría de Ciencia y Técnica de la Universidad Nacional de Tucumán, el Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET) y la Agencia Nacional de Investigación Científica y Tecnológica. Durante los últimos 15 años se han

formalizado emprendimientos conjuntos con instituciones nacionales -como el Grupo de Estudios Rurales de la Universidad de Buenos Aires coordinado por la Mg. Norma Giarracca, la Asociación de Estudios de Población de la República Argentina (AEPA)- e internacionales como la Philipps- Universität Marburg y la Hoschschule Vechta de Alemania y el departamento de Geografía de la Universidad de Málaga, España. Mediante estos contactos se generó un importante proceso de cooperación académica y científica entre los docentes/investigadores del I.E.G. y las instituciones mencionadas. Actualmente las líneas de investigación se orientan hacia las problemáticas urbanas y rurales, procesos y problemáticas agrarias, demografía, la calidad de vida en el noroeste argentino y medición y análisis de la pobreza en el Norte Grande Argentino. El I.E.G. cuenta con una Hemeroteca y Biblioteca cuyo objetivo es apoyar las funciones de los investigadores, docentes, estudiantes y profesionales vinculados con los programas y proyectos de investigación tanto del I.E.G. como de otros centros de investigación de la UNT, de universidades de la región y del país; visitantes extranjeros y nacionales, así como de instituciones gubernamentales y no gubernamentales de nuestro medio. Realiza canje con 58 instituciones nacionales entre las que se destacan, universidades nacionales, institutos y centros de investigaciones históricas y geográficas, academias nacionales, INDEC, etc. Además mantiene un fluido canje con 76 instituciones extranjeras entre las que figuran universidades de Alemania como la de Kiel, Marburg, Hannover, Tübingen; de España como la Autónoma de Madrid., Sevilla, Cádiz, Barcelona, Zaragoza, etc.

Personal Responsable: Prof. Alicia Ferrari y Prof. Mercedes Porcel
E-mail hemeieg@filo.unt.edu.ar

Laboratorio de cartografía digital
Este laboratorio cuenta con un equipo de especialistas que realizan tareas relacionadas con los sistemas de información geográfica (SIG), los cuales se definen como el conjunto de herramientas para el análisis de la información del territorio, desarrolladas para ser usadas con computadoras personales. Las bases de datos del SIG incluye información cartográfica del área metropolitana de San Miguel de Tucumán, de la Provincia de Tucumán y del Norte Grande Argentino, información estadística del INDEC (Censos y Encuestas) y también registros recopilados a través de las investigaciones y servicios realizados por el I.E.G. Desde este ámbito se brinda servicios relacionados con Sistemas de Información Geográfica y Procesamiento de Imágenes de Satélite: cartografía general en soporte digital, cartografía temática, cnálisis espacial multivariante, procesamiento de imágenes de satélite, correcciones geométricas, georeferenciación, correcciones espectrales, composición falso color, clasificación multiespectral y procesamientos multitemporales.

Personal a cargo: Ing. Horacio Madariaga, Dra. Claudia M. Hernández y Lic. Federico J. Soria.

Publicaciones
Revista Breves Contribuciones del IEG, editada por el IEG
Población y Socieda, editada por la Fundación Yocavil

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: En el área de la Geografía, por medio de un trabajo concensuado entre docentes del área de Historia y Geografía se creó en 1995 la *Maestría en Ciencias Sociales(orientación Historia o Geografía)* con sede en el Instituto de Estudios Geográficos. Su origen respondido a las propuestas y necesidades personales de un grupo de docentes e investigadores de estas dos disciplinas y no fue el resultado de una política de postgrado general establecido en el seno de la propia Universidad. Desde el 2003 la Maestría se complementó con el Doctorado con el propósito de articular con el nivel superior y en consecuencia se creó la *Maestría y Doctorado en Ciencias Sociales (orientación Historia o Geografía)* acreditada por la CONEAU (Comisión el Nacional para la Evaluación y Acreditación Universitaria). Esta carrera se desarrolla en base a una oferta de cursos básicos de contenido metodológico y de formación general, los que se complementan con temáticas específicas de cada disciplina, es decir de Geografía e Historia, siendo algunos obligatorios y otros optativos. Se cuenta con un cuerpo estable de 11 profesores que proceden de universidades nacionales e internacionales (Universidad de Buenos Aires, de la Universidad de Quilmas, Universidad del Nordeste y del extranjero se puede mencionar a la participación desde la Universidad de Marburg, Alemania; la Universidad Autónoma de Madrid, entre otros). También cuenta con un cuerpo de profesores invitados, donde a los de Buenos Aires y Tucumán, se agregan docentes de Berkeley, Madrid, Turín, entre otros. Actualmente la carrera cuenta con 25 estudiantes, quienes pueden acceder al sistema de becas que ofrece la Secretaría de Ciencia y Técnica de la UNT o las del CONICET.

Director: Dr. Alfredo S.C. Bolsi E-mail bolsi@filo.unt.edu.ar.
Secrataria: Lic. Noemí López E-mail nlopez@filo.unt.edu.ar.

FACULTY:
Bolsi, Alfredo S. C., 2007 Ph. D. Universidad Nacional de Tucumá — Geografía Histórica, Geografía de la Población y Demografía.
Würschmidt, Enrique J., 1999 - Profesor Universidad Nacional de Tucumán — Geografía Física, Cartografía y Geografía Matemática.

BOLIVIA

UNIVERSIDAD MAYOR DE SAN ANDRÉS

FACULTAD DE CIENCIAS GEOLÓGICAS
CARRERA DE INGENIERÍA GEOGRÁFICA
FUNDADA EN: 1984
GRADOS QUE OFRECE: Técnico Superior en Ordenamiento Territorial y Catastro, IngenieríaGeográfica, Maestría en Geopolítica de los RecursosNaturales, Maestría en Teledetección y SIG
ESTUDIANTES ACTUALES: Ingeniería: 422 (2014); Maestría: 64
DIRECTOR: Msc. Erwin Galoppo von Borries
PAGINA WEB: www.geografia.umsa.bo

PARA MAYOR INFORMACION ESCRIBIR A: Erwin Galoppo, ergaloppo52@hotmail.com, Dirección de Carrera, Edif. de Geografía, Piso 3, of. 301, Campus Universitario de Cota Cota, Calle 27. Telef.: 2442881, 2612881, La Paz - Bolivia.

PROGRAMAS: La preocupación ambientalista de los últimos años y el "giro espacial" dentro de las ciencias sociales, primero en los países desarrollados y luego en el nuestro, ha vuelto a dar la importancia al objetivo de la Geografía: el análisis y la planificación del territorio o del espacio geográfico. Ideas tales como planificar el espacio geográfico, utilizar racionalmente nuestros recursos, ordenar el uso de la tierra, u ordenar el territorio, comienzan cada vez más a manejarse en los niveles de decisión gubernamentales de Bolivia y se prevé que la demanda por profesionales relacionados con estos campos, crecerá rápidamente en los próximos años. Esta demanda no solo incluye a los profesionales en otras disciplinas, sino también a los geógrafos como especialistas de la planificación del espacio. En este sentido, la Carrera de Ingeniería Geográfica, de la Facultad de Ciencias Geológicas de la UMSA, tiene el reto de responder adecuadamente a dicha demanda. Esto implica, la adecuación del Plan de Estudios de la Carrera de Ingeniería Geográfica, de acuerdo a los requerimientos de nuestra sociedad y al rápido desarrollo de la tecnología de los últimos

años. La Carrera de Ingeniería Geográfica aparece por primera vez durante la década de los años 60 en la Universidad Mayor de San Andrés como Carrera de Geografía y Recursos Naturales, la misma que fue cerrada temporalmente. Desde 1984 se consolida como Carrera de Ingeniería Geográfica como parte de las carreras que ofrece la Universidad Mayor de San Andrés.

A partir de 2009 se aprueba el programa de Técnico Superior en Ordenamiento Territorial en la localidad de Achacachi, Provincia Omasuyos del Departamento de La Paz, Bolivia. El primer postgrado de la Carrera de Geografía se aprueba el año 2004 con el grado de "Maestría en Geopolítica de los Recursos Naturales", 2 años más tarde el año 2005 se aprueba la segunda "Maestría en Teledetección y SIG".

Técnico Superior en Ordenamiento Territorial y Catastro: La Carrera de Técnico Superior en Ordenamiento Territorial es parte del programa de desconcentración universitaria de la Universidad Mayor de San Andrés (UMSA) que se localiza en las áreas rurales del Departamento de La Paz. En este caso el programa se localiza en la población de Achacachi, en la Provincia Omasuyos del Departamento de La Paz, a 4 horas de la ciudad de La Paz, en el Altiplano Boliviano cerca del Lago Titicaca. La Carrera de Técnico Superior en Ordenamiento Territorial es dependiente de la Carrera de Ingeniería Geográfica de la UMSA. La duración del programa es de 3 años.

Ingeniería Geográfica: La Carrera de Ingeniería Geográfica es dependiente de la Universidad Mayor de San Andrés (UMSA) localizada en la ciudad de La Paz. La Carrera de Ingeniería Geográfica otorga el grado de Ingeniero/a. La única Carrera que otorga el grado universitario en el tema de Geografía en Bolivia, en la Universidad Pública, es la Carrera de Ingeniería Geográfica de la UMSA. La duración de la Carrera es de 5 años.

El año 2013 se aprobaron las siguientes menciones: - Cambio climático, vulnerabilidad y riesgos - Geografía humana y gestión territorial - Geomática - Gestión Ambiental y Recursos Naturales - Ordenamiento Territorial y Catastro Así, el estudiante puede optar por las áreas mencionadas Maestría en Geopolítica de los Recursos Naturales: La Maestría tiene como objetivo formar recursos humanos con sólidos conocimientos en métodos, técnicas, y procedimientos de investigación que permitirán la obtención de título de Magister en Geopolítica de los Recursos Naturales. Este programa propone preparar a sus estudiantes para la docencia, la investigación, el trabajo especializado y la consultoría nacional e internacional, en los sectores público y privado. Tiene una duración de 2 años.

Maestría en Teledetección y SIG: El objetivo de la Maestría es formar profesionales de alto nivel técnico - científico, relacionados al uso de las técnicas y herramientas de la Teledetección Espacial y los Sistemas de Información Geográfica, capaces de utilizar en el diseño, puesta en marcha, ejecución, mantenimiento y actualización de proyectos y otras actividades relativas a esta temática, que califiquen teórica y técnicamente en la gestión de los recursos naturales y el medio ambiente. Tiene una duración de 2 años.

PROFESORES/PROFESORAS

Se indica el nombre, áreas de interés o materias que dicta:

Msc. Erwin Galoppo von Borries, Director de Carrera, Métodos Estadísticos en Geografía
Arq. Bertha Gozalves Kreuzer, Docente Emérito, Planificación Territorial, Geografía Urbana y Rural, Geografía Regional
Msc. Fransisco Callejas, Docente Titular, Sociología y Geografía de la Población
Ing. Edwin Machaca, Docente Titular, Geología
Ing. Edmundo Flores, Docente Titular, Climatología e Hidrología
Ing. Raul Ayala, Docente Titular, Evaluación de Impactos Ambientales, Conservación el Medio Ambiente
Lic. Roberto Viscafe, Docente Titular, Métodos de Investigación, Estadística
Ing. Oscar Vidaurre, Docente Titular, Ecología, Biogeografía
PhD. Yuri Sandoval, Docente Titular, Sistemas de Información Geográfica
Lic. Raul Salas Piludo, Docente Titular, Biología
Ing. José Pedro Rivera, Docente Titular, Informatica
PhD. Vladimir Orsag, Docente Titular, Edafología
Ing. Nelson Aban, Docente Titular, Geomorfología
Ing. Juan José Flores, Docente Titular, Geografía Económica
Msc. Javier Nuñez Villalba, Docente Titular, Fotointerpretación, Percepción Remota

BRASIL

ASSOCIAÇÃO DE GEÓGRAFOS BRASILEIROS

TYPE OF INSTITUTION: Sociedade profissional/ Associação científica
PRIMARY ACTIVITY: Pesquisa
DATE OF FOUNDATION: 1934
PUBLICATIONS: Revista Terra Livre
WEBSITE: www.agb.org.br

FOR INFORMACION CONTACT: Nelson Rego (Porto Alegre), Presidente, Avenida Professor Lineu Prestes, número 338, CEP 05.508-970, bairro Cidade Universitária, São Paulo, Estado de São Paulo, São Paulo, Brasil, nacional@agb.org.br

MISSION: História da AGB A Associação dos Geógrafos Brasileiros (AGB) foi fundada por Pierre Deffontaines, em São Paulo, em 1934, no mesmo ano em que se iniciava os cursos de Geografia e História na Faculdade de Filosofia, Ciências e Letras da Universidade de São Paulo (FFCL/USP). Desde o seu surgimento a AGB congregou intelectuais de renome como: Caio Prado Junior, Luiz Fernando Morais Rego, Rubens Borba de Morais e Pierre Monbeig. Em 1944, AGB passou a se constituir em uma entidade de dimensões nacionais, que possuía sócios, profissionais, estudantes e colaboradores em todo o território brasileiro. As primeiras seções regionais foram criadas nos estados do Rio de Janeiro, Minas Gerais, Paraná, Pernambuco e Bahia. Em 1946, a AGB realizou em Lorena, São Paulo, a sua primeira reunião nacional, sucedida até 1955 por inúmeras reuniões anuais. Em 1956, a AGB promoveu o XVIII Congresso Internacional de Geografia da União Geográfica Internacional (UGI). Até o início dos anos 70 a AGB era caracterizada como uma associação de pesquisadores. Mas no final dos anos 70 (1978), na reunião anual realizada em Fortaleza, Ceára, a AGB estimulada pelo crescimento do movimento estudantil brasileiro, passou por uma renovação de sua perspectiva organizacional, que se refletiu no processo de reformulação de seu estatuto que a tornou uma associação mais integrada à luta pelos direitos humanos e ao debate político e democrático da sociedade. A história institucional da AGB está integrada à história da Geografia e do pensamento geográfico brasileiro, não havendo sentido em falar do pensamento geográfico sem citá-la. Dentre seus objetivos está a promoção do conhecimento científico a partir da troca de idéias de seus associados. Isso acontece nas reuniões regulares da Associação, nos fóruns de discussão e demais grupos de estudo. O diálogo se dá também por meio das publicações que mantemos. Boa parte da produção científica da Geografia brasileira encontra-se publicada em Anais de seus Congressos e Encontros. A AGB também é reponsável pelas edições da Revista Terra Livre e do Jornal AGB Em Debate. As Seções Locais são responsáveis pela publicação de várias revistas científicas como: o Boletim Paulista de Geografia, que completou 50 anos em 1999, o mais antigo em circulação; o Boletim Gaúcho de Geografia; o Prudentino de Geografia; o Fluminense de Geografia; e o

Amazonense de Geografia. A AGB é uma entidade civil, sem fins lucrativos, que reúne geógrafos, professores e estudantes de Geografia preocupados com a promoção do conhecimento científico, filosófico, ético, político e técnico da Geografia para que se possa oferecer à crítica da sociedade uma abordagem geograficamente consistente dos seus/nossos problemas, com o intuito de aperfeiçoar do debate científico da Geografia e que se interessam pelo desenvolvimento de alternativas e iniciativas de promoção do bem-estar social. Nesse sentido, a AGB tem procurado reunir todos aqueles que entendem ser a Geografia uma das dimensões fundamentais da aventura do homem na superfície da Terra. Uma Diretoria Executiva Nacional e as várias Seções Locais (com eleições a cada dois anos), formam a estrutura e o corpo da AGB que, com operação com orgãos similares, irradiam suas atividades por todo o país. Destaca-se entre seus objetivos: Promover o desenvolvimento da Geografia, pesquisando e divulgando assuntos geográficos; Estimular o estudo e o ensino da Geografia, propondo medidas para seu aperfeiçoamento; Manter intercâmbio e colaboração com outras entidades brasileiras e internacionais dedicadas à pesquisa geográfica ou de interesse correlato; Analisar atos dos setores públicos ou privados que interessem e envolvam a ciência geográfica, os geógrafos e as instituições de ensino e pesquisa da Geografia, e manifestar-se a respeito; Congregar os geógrafos, professores e estudantes de Geografia e demais interessados, pela defesa e prestígio da classe e da profissão; Promover encontros, congressos, exposições, conferências, simpósios, cursos e debates, bem como o intercâmbio profissional; Representar o pensamento de seus sócios, junto aos poderes públicos e às entidades de classe, culturais ou técnicas. 2. Ata de Fundação - 17 Setembro 1934 "Em 17 de setembro de 1934, à Av. Angélica, 133, os Srs. Pierre Deffontaines, Luiz Flores de Moraes Rego, Rubens Borba de Moraes e Caio Prado Jr, resolveram os presentes fundar uma sociedade de estudos geográficos denominada Associação dos Geógrafos Brasileiros. Esta Associação terá por fim: 1º. Reuniões periódicas dos membros com exposição de um assunto de Geografia brasileira por um do membros, seguida de discussão. 2º. Organização de excursões em comum para estudo de uma questão. 3º. Constituição de uma biblioteca especializada em Geografia, por colaboração dos membros e doações (livros, revistas e cartas). O Sr. Caio Prado Junior foi indicado para secretário, cabendo-lhe redigir as atas e ficando a seu cargo os demais serviços da secretaria. Para presidente foi indicado o Prof. Pierre Deffontaines. Para tesoureiro o sr. Rubens Borba de Moraes. A organização da biblioteca e do fichário com indicação de todos os livros, revistas e cartas existentes nas bibliotecas de São Paulo ficou a cargo dos srs Rubens Borba de Moraes e Caio Prado Junior. As reuniões serão realizadas na primeira e terceira segunda feira de cada mês, às 20 horas e meia na residência do Prof Deffontaines - Av Angélica, 133. A primeira reunião ordinária fica fixada para o dia 1º de Outubro. As reuniões se comporão de duas partes: 1º. Exposição e discussão. A exposição durará no máximo meia hora. 2º. Relatório de livros e artigos de Geografia. As comunicações poderão ser feitas em português ou francês. As contribuições dos membros serão recolhidas pelo tesoureiro. Cada membro terá completa liberdade para fixação da sua quota. Caberá ao tesoureiro indagar de cada um, individualmente, o montante de sua contribuição. Foram propostos e aceitos como objetivos a serem tratados, os seguintes assuntos: 1º. Esquema de um programa para o estudo do sólo em S. Paulo, pelo sr Moraes Rego - 1º. de Outubro. 2º. Etapas do povoamento de S. Paulo no XVI e XVII secs. pelo sr. Rubens de Moraes - 6 de Novembro. 3º. As fórmas karsticas no vale do Ribeira do Iguape, pelo sr. Moraes Rego. Data a ser fixada. 4º. Ensaio dos tipos de povoamento no Estado de S. Paulo, pelo Prof Deffontaines. 15 de Novembro, digo Outubro. 5º. Ensaio de divisão regional de S. Paulo, pelo Prof Deffontaines. Data a ser fixada. 6º. Contribuição ao estudo da repartição da propriedade fundiária rural no Est. de S. Paulo, pelo sr. Caio Prado Junior. 19 de Novembro. Ficou deliberado que os novos membros da Associação seriam indicados de comum acordo, pelos membros efetivos. E para constar, eu, secretario, redigi esta ata que vai assinada pelos membros fundadores presentes. CAIO PRADO JR LUIZ FLORES DE MORAES REGO PIERRE DEFFONTAINES RUBENS BORBA DE MORAES

Estrutura e Organização: Da Estrutura Administrativa Art. 10 - A AGB será organizada nos níveis nacional e local. Art. 11 - A nível nacional será constituída pela Assembléia Geral Nacional, pelas Reuniões da Gestão Coletiva e administrada pela Comissão Diretora, composta pelos Diretores de Seções Locais ou por quem regularmente o substitui e pela Diretoria Executiva Nacional. Art. 12 - A nível local, denominada Seção Local, será constituída pela Assembléia Geral Local e administrada por uma Diretoria Executiva Local. Art. 13 - Os membros de qualquer cargo de direção da AGB, a nível nacional e local, não receberão qualquer remuneração.

Propósito da Organização: A AGB é uma entidade civil, sem fins lucrativos, que reúne geógrafos, professores e estudantes de Geografia preocupados com a promoção do conhecimento científico, filosófico, ético, político e técnico da Geografia para que se possa oferecer à crítica da sociedade uma abordagem geograficamente consistente dos seus/nossos problemas, com o intuito de aperfeiçoar do debate científico da Geografia e que se interessam pelo desenvolvimento de alternativas e iniciativas de promoção do bem-estar social. Nesse sentido, a AGB tem procurado reunir todos aqueles que entendem ser a Geografia uma das dimensões fundamentais da aventura do homem na superfície da Terra. Uma Diretoria Executiva Nacional e as várias Seções Locais (com eleições a cada dois anos), formam a estrutura e o corpo da AGB que, com operação com orgãos similares, irradiam suas atividades por todo o país. Destaca-se entre seus objetivos: Promover o desenvolvimento da Geografia, pesquisando e divulgando assuntos geográficos; Estimular o estudo e o ensino da Geografia, propondo medidas para seu aperfeiçoamento; Manter intercâmbio e colaboração com outras entidades brasileiras e internacionais dedicadas à pesquisa geográfica ou de interesse correlato; Analisar atos dos setores públicos ou privados que interessem e envolvam a ciência geográfica, os geógrafos e as instituições de ensino e pesquisa da Geografia, e manifestar-se a respeito; Congregar os geógrafos, professores e estudantes de Geografia e demais interessados, pela defesa e prestígio da classe e da profissão; Promover encontros, congressos, exposições, conferências, simpósios, cursos e debates, bem como o intercâmbio profissional; Representar o pensamento de seus sócios, junto aos poderes públicos e às entidades de classe, culturais ou técnicas.

MEMBERS: Seções Locais da AGB A AGB possui várias Seções Locais (com eleições a cada dois anos), que operam e irradiam suas atividades por todo o país, são elas:

Seção Local Aquidauana: aquidauana@agb.org.br
Seção Local Aracajú: aracaju@agb.org.br
Seção Local Baixo Amazonas: baamazonas@agb.org.br
Seção Local Bauru-SP: atendimento@agbbauru.org.br
Seção Local Belém - PA:
Seção Local Belo Horizonte: bh@agb.org.br
Seção Local Cáceres: caceres@agb.org.br
Seção Local Campinas: campinas@agb.org.br
Seção Local Campina Grande: capinagrande@agb.org.br
Seção Local Campo Grande: campogrande@agb.org.br
Seção Local Catalão: catalao@agb.org.br
Seção Local Cuiabá: agb-cuiaba@yahoogrupos.com.br
Seção Local Curitiba-PR: curitiba@agb.org.br
Seção Local Distrito Federal: distritofederal@agb.org.br
Seção Local Dourados: dourados@agb.org.br
Seção Local Fortaleza-CE: fortaleza@agb.org.br
Seção Local Florianopolis: agbflorianopolis@gmail.com
Seção Local Guarabira: guarabira@agb.org.br e alternativo agbguarabira@gmail.com
Seção Local Goiânia: goiania@agb.org.br
Seção Local Jataí-GO: agbjatai@yahoo.com.br
Seção Local João Pessoa: agbjoaopessoa@yahoo.com.br
Seção Local Juiz de Fora-MG: agbjuizdefora@gmail.com
Seção Local Manaus: manaus@agb.org.br
Seção Local Marechal Cândido Rondon-PR: mcrondon@agb.org.br
Seção Local Niterói-RJ: niteroi@agb.org.br; agbniteroi@yahoo.com.br

Seção Local Porto Alegre-RS: portoalegre@agb.org.br
Seção Local Presidente Prudente-SP: prudente@agb.org.br
Seção Local Recife-PE: recife@agb.org.br ou agbrecife@gmail.com
Seção Local Rio Branco: riobranco@agb.org.br
Seção Local Rio de Janeiro-RJ: rio@agb.org.br
Seção Local São Paulo: saopaulo@agb.org.br
Seção Local Três Lagoas: treslagoas@agb.org.br
Seção Local Uberaba: uberaba@agb.org.br
Seção Local Viçosa-MG: vicosa@agb.org.br
Seção Local Vitória-ES: agb.vitoria@gmail.com

EVENTO ANUAL:
http://www.agb.org.br/index.php?option=com_content&view=article&id=52&Itemid=45 (2500 a 5000 participantes cada ano)

ASSOCIAÇÃO PROFISSIONAL DE GEÓGRAFOS DE SANTA CATARINA

TYPE OF INSTITUTION: Sociedade profissional/ Associação científica, Sociedade civil sem fins económicos
PRIMARY ACTIVITY: Comunicação / networking, Defesa dos interesses dos Geógrafos Profissionais do Estado de Santa Catarina
WEBSITE: www.aprogeosc.blogspot.com
DATE OF FOUNDATION: 28 de novembro de 2008

FOR INFORMACION CONTACT: Marcos Piovezan, Diretor-Presidente, Rua das Cerejeiras, 255 - Carvoeira Florianópolis - SC CEP 88040/510 www.aprogeosc.blogspot.com e-mail: contato@aprogeosc.com.br, Telefones: (48) 9947-3026 (48)3879-2120, e-mail: contato@aprogeosc.com.br

STRUCTURE AND DESCRIPTION OF ORGANIZATION: DA ESTRUTURA DA ENTIDADE DAS ASSEMBLÉIAS GERAIS ART. 11º - As Assembléias Gerais Ordinárias e Extraordinárias são instâncias máximas da entidade e soberanas em suas resoluções. PARÁGRAFO - 1º - As sessões das Assembléias Gerais Ordinárias serão anunciadas com 30 (trinta) dias de antecedência, através de edital e reunir-se-ão com um mínimo de dois terços dos Associados em primeira convocação, ou com qualquer número, em segunda convocação, 30 minutos após a primeira, deliberando por maioria dos votos, pelo número de presentes. PARÁGRAFO - 2º - Para as deliberações que tratarem da destituição dos administradores ou alteração do estatuto é exigido o voto concorde de dois terços dos presentes à assembléia especialmente convocada para esse fim, não podendo ela deliberar, em primeira convocação, sem a maioria absoluta dos associados, ou com menos de um terço nas convocações seguintes. PARÁGRAFO - 3º - As sessões das Assembléias Gerais Extraordinárias serão anunciadas com 7 (sete) dias de antecedência, através de edital. Realizar-se-ão com um mínimo de dois terços dos Associados em primeira convocação, ou com qualquer número, em segunda convocação, 30 minutos após a primeira deliberando por maioria dos votos, pelo número de presentes. PARÁGRAFO - 4º - As Assembléia Gerais ocorrerão, no mínimo, a cada seis meses. PARÁGRAFO - 5º - As Assembléias Gerais serão convocadas pelo Presidente da Diretoria Executiva ou por maioria dos Associados em dia com suas obrigações, garantindo-se a um quinto dos associados em dia com suas obrigações o direito de provê-la. ART. 12º - Os trabalhos das Assembléias Gerais serão presididos pela Diretoria Executiva. ART. 13º - Compete à Assembléia Geral: a) Eleger e empossar os membros da Diretoria; b) Emendar ou reformar este estatuto nos termos do artigo 25; c) Deliberar sobre assuntos de sua competência previstos neste estatuto e outras matérias que lhe sejam encaminhadas pela Diretoria ou pelos associados; d) Apreciar relatórios, balanços, autorizar a alienação, vendas ou permutas de bens móveis e imóveis.

PURPOSE OF ORGANIZATION: ART. 1º - A ASSOCIAÇÃO PROFISSIONAL DOS GEÓGRAFOS DO ESTADO DE SANTA CATARINA – APROGEO-SC – é uma sociedade civil, sem fins econômicos, regendo-se pelo presente Estatuto e tendo por objetivos: a) Representar perante as autoridades administrativas, legislativas, judiciárias e demais instituições de caráter público ou privado os interesses individuais e coletivos dos associados, em relação à categoria profissional representada pela Associação; b) Promover a defesa e a divulgação da profissão de Geógrafo, bem como o desenvolvimento da Geografia Aplicada; c) Apoiar grupos autônomos na pesquisa científica e na investigação tecnológica no âmbito profissional; d) Promover o desenvolvimento das categorias pertinentes à Lei 6.664/79 no que se refere a: a) reconhecimentos, b) levantamentos, c) estudos, d) pesquisas, e) arbitramentos e f) na organização, planejamento e disseminação da informação geográfica nos campos específicos da Geografia, entendida no sentido amplo em que abrange o conjunto das operações geográficas relativas à topografia, geodésia, cartografia, geomática, fisiografia, biogeografia, recursos hídricos, antropogeografia, geoeconomia, Geografia Legal e divulgação/disseminação da informação que, direta ou indiretamente conduzem à caracterização do evento no espaço geográfico. e) Propugnar pela defesa e ampliação do mercado de trabalho do Geógrafo e pela sua remuneração justa e condigna, atuando junto às entidades públicas e privadas, firmando convênios ou utilizando quaisquer outras formas de ação que possibilitem estes objetivos; f) Colaborar com o Estado como órgão técnico e consultivo, no planejamento, no estudo e solução dos problemas geográficos; g) Zelar pelo cumprimento do Código de Ética Profissional; h) Promover, em princípio, anualmente, uma Reunião-Consulta sobre Geografia, procurando debater temas pertinentes aos interesses de Geógrafos de órgãos oficiais e particulares; i) Participar de congressos, reuniões, conferências e exposições de interesse dos associados; j) Manter intercâmbio informativo-cultural com entidades estaduais, nacionais e internacionais de atividades afins; l) Proporcionar facilidades para constituição e funcionamento de comissões de estudo, particularmente quando designadas nas reuniões de consulta.

PROGRAMS OFFERED: METAS 2011 - Atuar na defesa das atribuições dos Geógrafos, dentro do Sistema CONFEA; - Participação na elaboração da Matriz do Conhecimento Geográfico (Resolução 1.012) - Deliberar funções para cada membro da APROGEO/SC, bem como, estipular prazos e acompanha-los passo-a-passo; - Maior presença na Câmara da Agrimensura, que cuida dos interesses do Geógrafo dentro do nosso Conselho Regional - CREA/SC; - Divulgar a APROGEO/SC, para os futuros Geógrafos nas instituições de ensino, em jornais, programas de TV, entre outras formas de publicações; - Palestrar nos centros de ensino, como forma de identificação da associação para os Geógrafos e futuros profissionais; - Cadastramento de pessoas interessadas em ajudar nos procedimentos burocráticos da APROGEO/SC; - Contactar diretorias das demais Associações em prol dos Geógrafos, em todo território nacional; - Estabelecer parcerias com outras entidades, associações, instituições, empresas, etc;- Elaborar material de divulgação (cartazes, panfletos, folders); - Curso de Capacitação para o Geógrafo sobre atuação no mercado de trabalho.

MEMBERS: Sanata Catarina, unidade da Federação do Brasil.

UNIVERSIDADE DE BRASÍLIA

DEPARTAMENTO DE GEOGRAFIA
FUNDADO: 01 de fevereiro de 1972
PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura, Licenciatura (à Distância/Virtuais)
URL PROGRAMA ON-LINE:
http://www.serverweb.unb.br/matriculaweb/graduacao/curriculo.aspx?cod=3859
http://vsites.unb.br/ih/novo_portal/portal_gea/lsie/revista/revista_index.htm
CONTATO PROGRAMA DE BACHARELADO:
Fernando Luiz Araújo Sobrinho, geografia@unb.br
CONTATO PROGRAMA DE POS GRADUACAO:
Rafael Sânzio Araújo dos Anjos, geografia@unb.br
CENTROS DE PESQUISA: Instituto de Ciências Humanas
SITE DA INTERNET:
http://vsites.unb.br/ih/novo_portal/portal_gea/index.html

CONTATO PARA MAIS INFORMAÇÕES: Fernando Luiz Araújo Sobrinho, Chefe de Departamento, Brasília,
Telefone: 0xx61.3107.7253, geografia@unb.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:
APRESENTAÇÃO O curso de Geografia na Universidade de Brasília é ministrado há 39 anos. Desde a sua criação consolidou-se como grande formador de profissionais no mercado local e nacional. Atualmente, o curso conta com 307 alunos. Nos últimos anos, as disciplinas oferecidas pelo Departamento têm tido grande procura por parte de alunos de outros cursos, como por exemplo Geologia, Engenharia Florestal, Sociologia, dentre outros. HABILITAÇÕES O Departamento de Geografia oferece habilitações na área de Licenciatura a Bacharelado. Para ambas habilitações, o total mínimo de créditos para a formatura é de 168. Para a conclusão do curso, o aluno deve permancer na faculdade no mínimo 6 semestres, e no máximo 14. Ao exceder esse limite o aluno entra em processo de desligamento. O aluno pode optar por fazer as duas opções de habilitação, sendo que, uma determinada disciplina, por exemplo, não necessariamente inclui-se nas duas opções. OBJETIVOS DO CURSO O curso visa a formação de professores de ensino básico e médio e pesquisadores. O aluno formado em Licenciatura pode exercer sua profissão dando aulas de Geografia de Primeiro e Segundo graus, tanto em escolas públicas quanto particulares. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho como pesquisador, podendo trabalhar em diversos órgãos, ou apenas prestando consultoria. O ESTUDANTE DE GEOGRAFIA O estudante de Geografia necessariamente deve ter aptidão para pesquisa, seja ela de campo ou teórica e ter grande perceptividade. Saber entender o que acontece no espaço local, regional e mundial é de suma importância. LABORATÓRIOS O Departamento de Geografia possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram o GEA, são os seguintes: 1) Laboratório de Cartografia 2) Laboratório de Geografia Física Aplicada 3) Laboratório de Geoiconografias e mídias aplicadas 4) Laboratório de Climatologia 5) Laboratório de Ensino de Geografia 6) Laboratório de Análises Territoriais 7) Centro de Cartografia Aplicada e Análises Espaciais 8) Laboratório de Análises Espaciais

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O aluno ingressante cumpre 168 créditos entre disciplinas obrigatórias (116 créditos), optativas (28 créditos) e módulo livre (24 créditos) . A partir do segundo semestre poderá fazer dupla habilitação cumprindo para isso os créditos relativos as disciplinas didático pedagógicas. Ao final do curso obtem o título de bacharel em Geografia e caso tenha feito a opção para dupla habilitação o de licenciado em geografia. O curso é gratuíto, pois é oferecido por instituição pública de ensino federal.

PROFESSORES:
CHEFE DO DEPARTAMENTO: Fernando Luiz Araujo Sobrinho Doutor em Geografia Área de Pesquisa: Geografia do Turismo, Rede Urbana, Desenvolvimento Urbano e Regional

SUBCHEFE DO DEPARTAMENTO: Ercília Torres Steinke Doutora em Geografia Área de Pesquisa: Climatologia, Recursos Hídricos e Gestão Ambiental

COORDENADOR: Dante F.C. Reis Jr Doutor em Geografia Área de Pesquisa: História e Teoria da Geografia, Ensino de Geografia

DOCENTE PERMANENTE
Claudia Andreoli Galvão Doutora em Economia Área de Pesquisa — Desenvolvimento Regional, Descentralização Industrial, Novas Territorializações
Everaldo Batista Costa Doutor em Geografia Área de Pesquisa — Geografia Cultural, Urbana e do Turismo
Gloria Maria Vargas Doutora em Geografia Área de pesquisa — Geografia Política e Econômica. Desenvolvimento Regional
Juan Verdesio Bitancurt Doutor em Cartografia Área de Pesquisa
Lúcia Cony Faria Cidade Doutora em Planejamento Urbano e Regional Área de Pesquisa — Planejamento Urbano e Regional
Marli de Oliveira Sales Doutora em Pedagogia Área de Pesquisa — Metodologia do Ensino e Aprendizagem em Geografia. Elaboração e avaliação de material didático
Marilia Steinberger Doutora em Economia Área de Pesquisa — Planejamento Urbano e Regional
Mario Diniz de Araújo Neto Doutor em Geografia Área de Pesquisa — Gerenciamento de Recursos Hídricos e Zoneamento Ambiental
Neio Lúcio Oliveira Campos Doutor em Geografia Área de Pesquisa — Planejamento Urbano
Nelba Azevedo Penna Doutora em Geografia Área de Pesquisa — Planejamento Urbano, Geografia Humana, Educação
Osmar Abílio de Carvalho Júnior Doutor em Sensoreamento Remoto e Fotointerpretação Área de Pesquisa — Sensoreamento Remoto e Fotointerpretação
Rafael Sanzio Araújo dos Anjos Doutor em Cartografia Área de Pesquisa — Cartografia Temática, Sensoriamento Remoto para estudos urbanos, Sistemas de Informação Geográfica (SIG), monitoração e vetores de crescimento urbano, Dinâmica espacial urbana no território do Distrito Federal
Renato Fontes Guimarães Doutor em Sensoreamento Remoto e Fotointerpretação Área de Pesquisa — Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas
Roberto Arnaudo Trancoso Gomes Doutor em Geografia Área de Pesquisa — Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas
Roselir de Oliveira Nascimento Doutora em Geografia Área de Pesquisa — Geomorfologia, Pedologia e Geografia Física
Ruth Elias de Paula Laranja Doutora em Geografia Área de Pesquisa — Biogeografia, Desenvolvimento Regional e Planejamento Ambiental
Valdir Adilson Steinke Doutor em Ecologia Área de Pesquisa — Geografia Física e Meio Ambiente
Violeta de Faria Pereira Doutoranda em Geografia Área de Pesquisa — Geografia Agrária e Movimentos Sociais no campo
Waleska Valença Manyari Doutora em Geografia Área de Pesquisa — Desenvolvimento Regional, Descentralização Industrial, Novas Territorializações.

UNIVERSIDADE DE CAXIAS DO SUL

CENTRO DE CIÊNCIAS HUMANAS E DA EDUCAÇÃO
FUNDADO: 10 de fevereiro de 1967
PROGRAMAS: Bacharelado, Licenciatura, Licenciatura (à Distância/Virtuais)
URL PROGRAMA ON-LINE:
https://ucsvirtual.ucs.br/portais/curso191/
https://ucsvirtual.ucs.br/portais/curso139/
CONTATO PROGRAMA DE BACHARELADO/POS GRADUACAO: Rozalia Brandão Torres, rbtorres@ucs.br
BACHARELADOS OUTORGADO ANUALMENTE: curso em implantação, ainda sem ter ocorrido uma turma egressa
POS GRADUACAO OUTORGADO ANUALMENTE: 17
SITE DA INTERNET: http://www.ucs.br/portais/curso191/

CONTATO PARA MAIS INFORMAÇÕES: Fernando Ben, Diretor do Centro, Bento Gonçalves, Rio Grande do Sul, Brasil, Telefone: 5193340189, Fax: 5434495200, zaiazinn@gmail.com e rbtorres@ucs.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: Compõem, entre outras, as seguintes disciplinas presentes nos cursos de licenciatura e bacharelado em Geografia da Universidade de Caxias do Sul:

INTRODUÇÃO AO ESTUDO DA GEOGRAFIA: Ementa - Estudo das concepções do objeto e da evolução da Geografia enquanto ciência e das diferentes escolas teórico-metodológicas de interpretação do espaço geográfico, com ênfase nos conceitos básicos. O ensino de Geografia na Educação Básica e a pesquisa em Geografia.

GEOGRAFIA FÍSICA: Ementa - Estudo das diferentes teorias que explicam a origem do Universo e do Sistema Solar. Caracterização da Terra e da Lua, incluindo dimensões, orientação e localização espacial, movimentos e suas relações e consequências na natureza e no cômputo do tempo.

FUNDAMENTOS DE ESTATÍSTICA: Ementa - Estudo dos fundamentos básicos da estatística, de métodos e técnicas de coleta, da organização e análise de dados. Caracterização de população e amostragem. Estudo de medidas de tendência central e de variabilidade. Noções de regressão, correlação e séries cronológicas.

POPULAÇÃO E TERRITÓRIO: Ementa - Estudo das relações entre população, território e ideologia. Identificação e análise dos indicadores da dinâmica e da estrutura da população, com base em levantamento de dados populacionais.

GEOLOGIA GERAL E PEDOLOGIA: Ementa - Estudo da formação da Terra, suas modificações ao longo do tempo e influência dos agentes geológicos endógenos e exógenos. Caracterização e identificação dos minerais, rochas e solos.

CLIMATOLOGIA I: Ementa - Estudo dos conceitos de tempo, de clima e dos fatores meteorológicos controladores da dinâmica da circulação atmosférica. Caracterização da estrutura e composição da atmosfera.

CARTOGRAFIA GERAL : Ementa - Estudo dos conceitos cartográficos básicos e gerais para a Geografia. A evolução da cartografia e das técnicas de representação e interpretação do espaço geográfico. Elementos cartográficos. Alfabetização, leitura e interpretação cartográficas.

GEOGRAFIA URBANA: Ementa - Estudo da paisagem urbana e do lugar. Identificação e análise da dinâmica interna da cidade. Estudo dos processos que diferenciam as cidades nos espaços regional, nacional e global. Caracterização da constituição da rede urbana. Avaliação das diferenças na urbanização de países ricos e pobres. Análise do meio urbano local.

GEOGRAFIA RURAL: Ementa - Estudo dos conceitos básicos da organização do espaço rural no Brasil e no mundo. Caracterização da organização do espaço rural, suas atividades econômicas e relações com o meio urbano. Comércio internacional de produtos primários.

CLIMATOLOGIA II: Ementa - Estudo da circulação atmosférica, da variabilidade espacial do clima e seus fatores determinantes. Aplicação da climatologia na agricultura, no meio urbano e os problemas ambientais/climáticos decorrentes da poluição atmosférica.

GEOMORFOLOGIA: Ementa - Estudo dos conceitos básicos da geomorfologia nas escalas espacial e temporal. Análise e caracterização das unidades morfoestruturais e morfoesculturais do globo e da influência da geodinâmica e do clima, respectivamente.

HIDROLOGIA: Ementa - Estudo dos conceitos básicos da hidrologia e dos ciclos da água na natureza. Caracterização das águas continentais e oceânicas. Análise das políticas públicas em relação aos recursos hídricos e do impacto da ação humana na natureza.

GESTÃO DE RECURSOS HÍDRICOS: Ementa - Gestão de Recursos Hídricos. Modelos de Gestão. Políticas e Sistemas de Recursos Hídricos Nacional e no Estadual: diretrizes e instrumentos.

GEOGRAFIA ECONÔMICA: Ementa - Estudo dos conceitos básicos do capitalismo. Caracterização e análise da Divisão Internacional do Trabalho. Avaliação do Brasil no contexto da DIT. Análise dos processos de industrialização, dos circuitos da economia e da organização do espaço geográfico.

GEOGRAFIA DO BRASIL I - Ementa - Estudo das características físico-naturais do território brasileiro, das diferentes paisagens e os seus fatores determinantes.

SENSORIAMENTO REMOTO E GEOPROCESSAMENTO: Ementa - Estudo dos conceitos básicos e das aplicações do Sensoriamento Remoto na análise do espaço geográfico. Análise dos sistemas sensores existentes e dos produtos gerados. Estudo teórico/prático de técnicas de processamento digital e de interpretação visual de imagens. Uso dos Sistemas de Informação Geográfica (SIG's) na análise espacial e suas aplicações no ensino de Geografia.

GEOGRAFIA DO BRASIL II: Ementa - Estudo da formação sócio-espacial do Brasil através da análise das transformações dos meios geográficos. Análise da organização produtiva e identificação das articulações das regiões e das diferenças regionais no território brasileiro.

CARTOGRAFIA DIGITAL: Ementa - As representações de dados geográficos. Os conceitos básicos da cartografia temática. A cartografia temática por computador: equipamentos e softwares. Técnicas de representação cartográfica de informações geográficas. Símbolos e convenções cartográficas. Os elementos cartográficos e a arte final das representações cartográficas.

BIOGEOGRAFIA: Ementa - Análise dos fatores bióticos e abióticos e a distribuição das espécies nos diversos biomas terrestres. Caracterização das Unidades de Conservação e sua biodiversidade.

ORGANIZAÇÃO DO ESPAÇO MUNDIAL I: Ementa - Estudo do conceito de região segundo diferentes concepções teórico-metodológicas. Conceituação de desenvolvimento desigual e combinado. Análise das transformações culturais e políticas do mundo contemporâneo através do conceito de organização do espaço mundial.

GEOGRAFIA DO RIO GRANDE DO SUL: Ementa - Análise da sucessão dos meios geográficos no espaço rio-grandense. Estudo do espaço físico e dos processos de ocupação e de estruturação do território gaúcho. A passagem do meio natural para o meio técnico-científico informacional. Análise da posição e da função da economia gaúcha no contexto nacional. Exame das diferenças regionais do Rio Grande do Sul e dos processos que as configuraram. A regionalização macro-econômica do Rio Grande do Sul.

GEOPOLÍTICA: Ementa - Estudo dos conceitos básicos em Geografia Política e caracterização da nova geopolítica mundial. Análise das concepções clássicas e contemporâneas de Estado e de suas relações com a distribuição do espaço. Exame da geopolítica brasileira.

GEOGRAFIA DOS PROBLEMAS AMBIENTAIS: Ementa - Estudo sobre os problemas ambientais, planejamento e impactos da organização social sobre o ambiente. Análise do uso dos recursos naturais e suas relações com a qualidade ambiental.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Plano de Execução Curricular – Licenciatura em Geografia: 655 I Plano Curricular de Duração Média: 4 anos Reconhecido: Decreto n.º 69.347, de 11 de Outubro de 1971 (DOU de 13.10.71, p.8.235) Carga Horária Mínima CNE: 2.800 h/a (Res. CNE/CP nº 2/2002) Carga Horária UCS: 2.670 h/a (164 créditos) + 200 h/a Ativ. Compl. 2870h/a - Res. CEPE No. 68/04 Curso de Bacharelado em Geografia: 671G (CARVI) Plano Curricular de Duração Média: 4 anos Reconhecido: Decreto n.º 69.347, de 11 de Outubro de 1971 (DOU de 13.10.71, p.8.235) Carga Horária Mínima CNE: 2.400 h/a (Res. CNE/CES nº 8/2007) Carga Horária UCS: 2.490 h/a (166 créditos) + 100 h/a Ativ. Compl.= 2.590h/a - Res. CEPE No. 68/04

PROFESSORES: São professores das disciplinas específicas do curso: Ivanira Falcade, Doutora em Geografia - viticultura e indicações geográficas; Adriana Trinidad, Mestrado em Geografia - Análise Ambiental e Territorial; Rozalia Brandão Torres, Doutorado em Geografia - Análise Ambiental e Territorial – Representações sociais sobre os areais e mídia; Marcos Vieira Porto, Mestrado em Geologia e Geofísica Marinha - Redimensionamento do Traçado Insular do Limite Exterior da Plataforma Continental Brasileira

UNIVERSIDADE DO ESTADO DO RIO DE JANEIRO

DEPARTAMENTO DE CIÊNCIAS HUMANAS E FILOSOFIA
FUNDADO: 4 de dezembro de 1950
PROGRAMAS: Licenciatura
URL PROGRAMA ON-LINE: http://www.cap.uerj.br/site/
CENTROS DE PESQUISA: laboratório de ensino de geografía
SITE DA INTERNET: http://www.cap.uerj.br/site/

CONTATO PARA MAIS INFORMAÇÕES: Cesar Alvarez Campos de Oliveira, CHEFE DE DEPARTAMENTO, RIO DE JANEIRO, BRASIL, Telefone: (21) 2333-7872 | (21) 2333-7873 | (21) 2333-7874 | (21) 2333-7875 | (21) 2333-7876, professorfabiotadeu@gmail.com

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Laboratório de Ensino de Geografia, instalado no CAp/UERJ, abriga o Grupo de Pesquisa em Educação Geográfica, GPEG. As linhas de pesquisa desenvolvidas pelo GPEG (Grupo de Pesquisas em Educação Geográfica) tem como foco comum o desenvolvimento de estratégias metodológicas que possam colaborar com as práticas cotidianas de Educação Geográfica nos estabelecimentos de ensino, com efeitos multiplicadores na sociedade um todo.

Linhas de Pesquisa A Metodologia de Seminários como Estratégia de Autonomização Discente Coordenador: Profº. Drº. Augusto César Pinheiro da Silva Cartografia Escolar: currículo, metodologias e recursos didáticos Coordenadores: Profº. Drº. Cesar Alvarez Campos de Oliveira e Profº. Ms. Ronaldo Goulart Duarte A Produção Audiovisual no Ensino Básico: a Linguagem Imagética como Recurso para a Educação Geográfica Coordenadores: Profª. Drª. Rejane Cristina de Araujo Rodrigues e Profº. Ms. Fábio Tadeu Santana

UNIVERSIDADE ESTADUAL DE LONDRINA

DEPARTAMENTO DE GEOCIÊNCIAS
FUNDADO: 1961
PROGRAMAS: Associado / técnico, Bacharelado, Mestrado, Licenciatura
CONTATO PROGRAMA DE BACHARELADO: Edna ou Regina, dgeo@geo.uel.br
BACHARELADOS OUTORGADO ANUALMENTE: 40
CONTATO PROGRAMA DE POS GRADUACAO: Anderson, spgcce@uel.br
POS GRADUACAO OUTORGADO ANUALMENTE: 20
CENTROS DE PESQUISA: Centro de Ciências Exatas – CCE
SITE DA INTERNET: http://www.geo.uel.br/

CONTATO PARA MAIS INFORMAÇÕES: Rosana Figueiredo Salvi, Vice-Coordenadora do Mestrado em Geografia, Departamento de Geociências Rodovia Celso Garcia Cid, Pr 445 Km 380, Campus Universitário Cx. Postal 6001, CEP 86051-980, Londrina - PR Fone: (43) 3371-4000, Fax: (43)3371-4216, e-mail: dgeo@geo.uel.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Geografia, em Londrina, teve início em março de 1958 na então Faculdade de Filosofia Ciências e Letras, tendo sido incorporado à Universidade Estadual de Londrina em 1972. Atualmente o curso está locado no Departamento de Geociências do Centro de Ciências Exatas da UEL, ocupando dois prédios próprios, dotados de oito salas de aula, sendo que quatro delas funcionam também como laboratórios e uma é de uso exclusivo do curso de Mestrado, doze salas de permanência de professores e os seguintes Laboratórios: Informática e Sensoriamento Remoto; Informática e Geoprocessamento; Aerofoto; Topografia; Cartografia; Pesquisas Urbanas e Regionais; Geografia Física; Estudos Agrários; Pedologia; Mineralogia; Microscopia e preparação de amostras e o de Ensino de Geografia. Conta ainda com uma Biblioteca de Geologia, uma sala onde funciona o grupo PET Programa Especial de Treinamento, uma sala ocupada pela seção Local da AGB Associação dos Geógrafos Brasileiros e uma sala que é a sede do NEMA – Núcleo de Estudos em Meio Ambiente. Conta com 7 funcionários para o atendimento a 3218 alunos. Oferece Disciplinas a outros sete cursos da Universidade: História, Ciências Sociais, Química, Agronomia, Ciências Biológicas, Engenharia Civil e Arquitetura. Oferece os seguintes cursos de pós-graduação: Lato sensu - Especialização no Ensino de Geografia e Especialização em Análise

Ambiental em Ciências da Terra; Stricto sensu - Mestrado em Geografia. Seu corpo docente é composto por professores de diferentes formações: Geógrafos, Geólogos, Agrônomos e Engenheiros Civis. A qualificação de seu corpo docente tem sido uma das metas do Departamento, fato corroborado pela instalação e funcionamento de cursos de Pós-graduação.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Geografia Habilitação: Bacharelado e Licenciatura Turno: Matutino e Noturno Duração: 4 anos O curso O curso de Geografia da UEL deve propiciar as condições para que o estudante compreenda pressupostos filosóficos e epistemológicos, bem como desenvolver a capacidade de conexão entre as áreas do conhecimento e suas repercussões no entendimento das interações espaço sociedade, além de proporcionar uma formação profissional de qualidade e adequada às necessidades e demandas atuais. Onde pode atuar Escolas de ensino médio, institutos de pesquisa e de ensino superior. Saiba mais• A matriz curricular do curso é estruturada em disciplinas de tronco comum (licenciatura e bacharelado) nos dois primeiros anos; ao final do segundo ano o estudante opta por uma das habilitações.• Para o contínuo alcance dos objetivos citados o curso disponibiliza laboratórios e acervo bibliográfico, viagens de campo coordenadas por professores no decorrer dos anos letivos, para as mais variadas regiões do Brasil e do Paraná.• Os projetos de pesquisa, ensino e extensão desenvolvidos pelos professores envolvem a participação dos estudantes que aprimoram o uso de técnicas, metodologias e métodos específicos da ciência geográfica e da ciência em geral, ampliando sua formação.• O curso pretende levar o estudante à investigação geográfica; identificar e discutir as diferentes escalas da Geografia; selecionar a linguagem científica adequada para o tratamento e análise da informação geográfica com ênfase na elaboração de mapeamentos; atuar como professor em conformidade com a legislação vigente.

DOCENTES:

Linha de Pesquisa e Orientação Adriana Castreghini de Freitas Pereira — Topografia

Airton Nozawa — Aerofotogrametria

Alice Yatiyo Asari — Geografia da população, Planejamento urbano e regional, Geografia e ensino

André Celligoi — Gestão de recursos hídricos subterráneos

Angela Cristina Alves de Melo — Análise Ambiental Planejamento, Urbano e Ambiental

Angelo Spoladore — Geologia, Geomorfologia, Analise ambiental, Gestão de recursos hídricos subterráneos

Carlos Alberto Hirata — Geografia Física

Claudio Roberto Bragueto — Geografia industrial, Geografia regional, Geografia agraria

Cleuber Moraes Brito — Análise ambiental, Mineração e meio ambiente

Deise Fabiana Ely — Geografia física, Climatologia geográfica, Epistemologia da geografía

Edilson Luis de Oliveira — Geografia urbana, Epistemologia da geografía

Edison Archela — Geologia e geomorfologia, Ensino de geologia, Recursos hídricos subterráneos

Eliane Tomiasi Paulino — Geografia agrária, Geografia e ensino, Analise regional, Epistemologia da geografía

Eloiza Cristiane Torres — Geomorfologia, Recursos naturais, Ensino de geografia, Dinâmica da paisagem

Fábio Cesar Alves Cunha — Planejamento urbano e regional, Geografia urbana, Analise e planejamento ambiental, Discurso e representações geográficas, Geografia e ensino

Fernanda Leite Ribeiro — Topografia

Geraldo Terceiro Correa — Biogeografia, Recursos naturais, Hidrogeografia, Geomorfologia, Analise ambiental

Ideni Terezinha Antonello — Geografia agrária, Geografia regional, Epistemologia da geografia, Ensino de geografía

Jeani Delgado Paschoal Moura — Geografia agrária, Geografia e ensino

José Paulo Peccinini Pinese — Geologia, Geomorfologia, Analise ambiental, Geografia e turismo

Lúcia Helena Batista Gratão — Geomorfologia, Geografia e ensino, Analise ambiental

Luciano Nardini Gomes — Topografia, Georreferenciamento, Conservação de Solos

Márcia Siqueira de Carvalho — Geografia agrária, Geografia e ensino, Geografia da saúde, Epistemologia da geografía

Marcos Antonio Fávaro Martins — Geopolítica

Margarida de Cássia Campos — Ensino de geografía

Maria del Carmen M. H. Calvente — Geografia e ensino, Geografia e turismo

Mirian Vizintim F. Barros — Geoprocessamento, Sensoriamento remoto, Planejamento urbano e regional, Analise ambiental

Nilson Cesar Fraga — Planejamento Urbano e Regional, Análise Ambiental, Território, Rede e Poder, Meio Ambiente e Desenvolvimento

Nilza A.P. Freres Stipp — Análise ambiental de áreas impactadas, Análise ambiental em ciências da Terra, Uso, ocupação e manejo do solo

Omar Neto Fernandes Barros — Cartomática, Geoprocessamento

Osvaldo Coelho Pereira Neto — Geoprocessamento

Pedro Rodolfo S. Vendrame — Pedologia e Solos

Rigoberto Lazaro Prieto CAINZOS — Geoprocessamento, Uso/ocupação do Solo, Geoprocessamento aplicado à Análise Ambiental

Rodrigo Vitor Barbosa Sousa — Hidrologia, Geomorfologia Fluvial, Geoprocessamento, Análise Ambiental

Rosana Figueiredo Salvi — Epistemologia da Geografia

Rosely Maria de Lima — Geomorfologia, Hidrogeografia, Planejamento urbano e regional, Geografia e ensino, Analise ambiental

Ruth Youko Tsukamoto — Geografia agrária, Geografia e ensino

Tânia Maria Fresca — Geografia urbana, Geografia industrial, Planejamento urbano

Vespasiano de Cerqueira Luz Filho — Topografia, Geodésia, Economia do Meio Ambiente, Urbanismo

Wladimir Cesar Fuscaldo — Analise regional, Planejamento urbano e regional, Geografia e ensino, Analise ambiental, Recursos naturais

UNIVERSIDADE ESTADUAL DO OESTE DO PARANÁ

COLEGIADO DO CURSO DE GEOGRAFIA, CAMPUS DE MAL. CÂNDIDO RONDON

FUNDADO: 1997

PROGRAMAS: Licenciatura; Mestrado.

CONTATO PROGRAMA DE LICENCIATURA: rondon.col.geografia@unioeste.br

CONTATO PROGRAMA DE POS GRADUACAO: mestradogeografia.mcrondon@gmail.com

CENTROS DE PESQUISA: Centro de Ciências Humanas, Educação e Letras

SITE DA INTERNET: http://www.unioeste.br/cursos/rondon/geografia/

CONTATO PARA MAIS INFORMAÇÕES: Colegiado do Cuso de Geografia: (45) 3284-7851

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO: O Curso de Geografia do Campus de Marechal Cândido Rondon iniciou suas atividades acadêmicas no ano de 1997. Desde a sua implantação, buscou-se desenvolver as atividades de ensino, pesquisa e extensão, respondendo à necessidade de formação de professores de Geografia para atuar no ensino fundamental e médio

da região. Atualmente, 120 alunos compõem o corpo discente. HABILITAÇÕES: O Curso de Geografia oferece habilitação na área de Licenciatura. São abertas 40 vagas por ano para alunos ingressantes. As disciplinas são realizadas no período noturno. A carga horária total é de 2.920 horas. Para a conclusão do curso, o aluno deve permanecer na universidade no mínimo 4 anos e no máximo 7 anos.

OBJETIVOS DO CURSO: Capacitar para a formação de professores de Geografia do Ensino Fundamental e Médio priorizando a discussão teórico-metodológica e sua aplicabilidade para a compreensão e construção de conhecimentos e habilidades voltados à formação do professor.

O ESTUDANTE DE GEOGRAFIA: O estudante necessita desenvolver competências e habilidades que contribuam para a formação do geógrafo em sua integralidade, aliando ensino e pesquisa, bem como capacitem de forma sólida para o exercício da profissão.

LABORATÓRIOS: Os laboratórios e grupos de pesquisa que integram o curso de Geografia são: o Grupo Multidisciplinar de Estudos Ambientais (GEA); o Laboratório de Ensino de Geografia (LEG); o Laboratório de Estudos Regionais (LABER); o Grupo de Estudos Fronteiriços (GEF); o Laboratório e Grupo de Pesquisa Geografia das Lutas no Campo e na Cidade (GEOLUTAS); e o Grupo de Ensino e Práticas de Geografia (ENGEO).

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O aluno ingressante cursa 2920 horas/aula, distribuídos em disciplinas de formação geral (17 disciplinas), de formação diferenciada (5 disciplinas), estágio supervisionado (3 disciplinas), trabalho de conclusão de curso (1) e atividades acadêmicas complementares (200 horas). O curso é gratuito, oferecido por instituição pública.

PROFESSORES:
COORDENADOR:
Fábio de Oliveira Neves. Doutor em Geografia — sustentabilidade; governança do ambiente urbano e gestão de resíduos sólidos.

DOCENTE PERMANENTE:
Edson Belo Clemente de Souza. Doutor em Geografia — Geografia Urbana e Regional: planejamento urbano e regional; fronteira; metropolização; turismo.
Edson dos Santos Dias. Doutor em Geografia Humana — Ordenamento territorial e meio ambiente; conflito socioambiental e unidades de conservação da natureza; conflito socioambiental em áreas urbanas
Ericson Hideki Hayakawa. Doutor em Sensoriamento Remoto — Geotecnologias (sensoriamento remoto e geoprocessamento) e suas aplicações em geografia e geociências.
José Edézio da Cunha. Doutor em Geografia Física — Análise integrada da paisagem; compreensão da relação solo - relevo
Karin Linete Hornes. Doutora em Geografia — Análise de paisagens subtropicais; feições geomorfológicas (Campos Gerais); geoturismo; análise ambiental e geografia da saúde.
João Edmilson Fabrini.Doutor em Geografia — movimentos sociais, lutas camponesas, assentamentos de sem-terra, reforma agrária, cooperativas agrícolas.
Márcia Regina Calegari. Doutora em Agronomia — estudo do solo como registro de mudanças ambientais; análise de fitólitos aplicada em estudos de reconstrução paleambientais e coleções de referencias.
Maristela Ferrari .Doutora em Geografia — Fronteira; limite; interações transfronteiriças e cidades gêmeas.
Marli Terezinha Szumilo Schlosser. Doutora em Geografia Humana — Ensino de Geografia e Geografia Agrária.
Mateus Marchesan Pires.Mestre em Geografia — Ensino de Geografia
Oscar Vicente Quinônes Fernandez. Geociências e Meio Ambiente — Bacia hidrográfica; dinâmica fluvial; restauração de cursos fluviais.
Tarcísio Vanderlinde .Doutor em história — Agricultura familiar e camponesa; história; globalização; mediações; geografia e religiosidades; migrações; identidades e ambiente.
Vanda Moreira Martins. Doutora em Agronomia — Ciências Exatas e da Terra; Geografia Física; Pedologia; Geomorfologia; Meio Ambiente.

UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO"

DEPARTAMENTO DE GEOGRAFIA E DEPARTAMENTO DE PLANEJAMENTO TERRITORIAL E GEOPROCESSAMENTO
FUNDADO: 1958
PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura
URL PROGRAMA ON-LINE: http://www.rc.unesp.br/igce/grad/geografia/informacoes.php
CONTATO PROGRAMA DE BACHARELADO: Prof. Dr. Auro Aparecido Mendes, auroam@rc.unesp.br
BACHARELADOS OUTORGADO ANUALMENTE: 30
CONTATO PROGRAMA DE POS GRADUACAO: Prof. Dr. Antônio Carlos Tavares, atavares@rc.unesp.br
POS GRADUACAO OUTORGADO ANUALMENTE: 20
CENTROS DE PESQUISA: LABORATÓRIO DE APOIO AO ESTUDO DA GEOGRAFIA - LAEGE; LABORATÓRIO DE CLIMATOLOGIA; LABORATÓRIO DE ESTUDOS TERRITORIAIS (LAET); Planejamento Municipal (LPM); Observatório Territorial; Laboratório de Análises de Formações Superficiais - LAFS; Laboratório de Geomorfologia
SITE DA INTERNET: http://www.rc.unesp.br/igce/grad/geografia/

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. Auro Aparecido Mendes, Coordenador do Curso de Geografia, Rio Claro, São Paulo, Brasil,
Telefone: +55 (19) 3526-9204, auroam@rc.unesp.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Geografia do IGCE – UNESP/Campus de Rio Claro foi implantado em 1958 e é considerado um dos mais tradicionais e conceituados do Brasil. Compreende duas modalidades: Licenciatura (Períodos Integral e Noturno) e Bacharelado (Período Integral). O curso é gratuito e dispõe de 40 vagas em cada período; os prazos para integralização curricular são de 4 anos (tanto para o Período Integral, quanto para o Noturno). A modalidade Bacharelado apresenta três possibilidades de formação: a) Bacharelado com Ênfase em Análise Ambiental e Geoprocessamento; b) Bacharelado com Ênfase em Análise Sócio-Espacial e Planejamento Territorial; c) Bacharelado Regular (sem ênfase). O programa do curso consiste em um núcleo comum, abrangendo os quatro primeiros semestres, que contêm as disciplinas de conteúdo geográfico básico, e de atividades específicas, nos semestres seguintes, conforme a modalidade escolhida. São considerados os conceitos sobre a produção do espaço na perspectiva de um desenvolvimento que respeite os limites sustentáveis do uso dos recursos naturais. O objetivo do curso é o de possibilitar uma formação abrangente nas ciências geográficas, a fim de que os futuros

profissionais possam desempenhar de maneira eficiente suas funções, quer como licenciado, na regência de aulas no ensino fundamental e médio, quer como bacharel, no desempenho de suas atribuições técnicas e de pesquisa em empresas e instituições públicas e privadas. A Geografia é um dos caminhos para que possamos compreender o mundo em que vivemos. Os temas enfocados por essa ciência são bastante diversos, capazes de oferecer instrumentos essenciais para a compreensão da realidade social e para a intervenção no ordenamento do meio, na perspectiva do equilíbrio homem/natureza.

PROFESSORES:

Profa. Dra. Andréia Medinilha Pancher — Cartografia, Cartografia Temática, Geoprocessamento

Prof. Dr. Adler Guilherme Viadana — Biogeografia de Sistemas Aquáticos; Evolução da Paisagem Geográfica

Profa. Dra. Ana Tereza Caceres Cortez — Biogeografia, Ecologia, Recursos Naturais

Prof. Dr. Anderson L. H. Christofoletti — Análise do Desenvolvimento Sustentável em Bacias Hidrográficas; Climatologia Urbana; Geometria Fractal Aplicada em Climatologia; Impactos Ambientais Causados pelas Anomalias Climáticas; Variabilidade Climática

Prof. Dr. Antonio Carlos Tavares — Climatologia

Prof .Dr. Auro Aparecido Mendes — Geografia econômica, Geografia industrial

Profa. Dra. Bernadete Castro Oliveira — Antropologia Social Patrimônio Cultural e Meio Ambiente, Ensino de Antropologia

Profa. Dra. Cenira Maria Lupinacci da Cunha — Geomorfologia Cartografia, Geomorfológica Análise Ambiental

Profa. Dra. Darlene Aparecida de Oliveira Ferreira — Geografia Rural, Uso do Solo Urbano, Agricultura Familiar, Relação Cidade-Campo

Prof. Dr. Elson Luciano Silva Pires — Economia Política do Trabalho Economia Urbana e Regional

Prof. Dr. Enéas Rente Ferreira — Geografia dos transportes

Prof. Dr. Fabiano Tomazini da Conceição — Geomorfologia Geoquímica Manejo de Bacias Hidrográficas

Prof. Dr. Fadel David Antonio Filho — Geografia regional, ensino de geografia

Profa. Dra. Iara Nocentini André — Climatologia

Prof. Dr. João Afonso Zavattini — Climatologia Geográfica

Prof. Dr. José Gilberto de Souza — Geografia Agrária; Mercados e Tributação da Terra Rural; Políticas Públicas; Teoria e Método de Pesquisa em Geografia

Profa. Dra. Magda Adelaide Lombardo — Cartografia Análise da Informação Geográfica

Prof. Dr. Manuel B. Rolando Berríos Godoy — Meio Ambiente Recursos Naturais, Resíduos Sólidos Urbanos, Industriais e Especiais Cargas Perigosas

Profa. Dra. Maria Isabel Castreghini de Freitas — Cartografia Sensoriamento remoto aplicado à análise ambiental Sistema de Informação Geográfica (SIG)

Profa. Dra. Maria Juraci Zani Dos Santos — Geografia Física, Climatologia, Agroclimatologia, Bioclimatologia

Profa. Dra. Nádia Regina do Nascimento — Pedologia, Pedogênese Geomorfologia: relações morfogênese e pedogênese, Análise Ambiental: poluição dos solos, degradação desolos

Prof. Dr. Paulo Roberto Teixeira Godoy — Geografia Regional do Estado de São Paulo: Economia e Recursos Naturais

Prof. Dr. Roberto Braga — Planejamento urbano e regional, Planejamento ambiental, Políticas públicas e desenvolvimento local, Geografia urbana e regional

Prof. Dr. Samuel Frederico

Profa. Dra. Sandra Elisa Contri Pitton — Climatologia Aplicada e Qualidade Ambiental e de Vida

Prof. Dr. Sérgio dos Anjos — Cartografia Geoprocessamento

Profa. Dra. Silvana Maria Pintaudi — Geografia do Comércio, Serviços e do Consumo, Geografia Urbana

Profa. Dra. Silvia Ap. Guarniéri Ortigoza — Geografia Humana do Brasil; Geografia Regional e Geografia Urbana

Profa. Dra. Solange T. De Lima Guimarães — Paisagem, percepção da paisagem, estudos ambientais, educação ambiental

UNIVERSIDADE FEDERAL DA GRANDE DOURADOS

FACULDADE DE CIÊNCIAS HUMANAS
FUNDADO: 2006
PROGRAMAS: Bacharelado, Licenciatura
CONTATO PROGRAMA DE BACHARELADO: Sedeval Nardoque, geografia@ufgd.edu.br
BACHARELADOS OUTORGADO ANUALMENTE: 10
CONTATO PROGRAMA DE POS GRADUACAO: Jones Dari, mestradogeografia@ufgd.edu.br
POS GRADUACAO OUTORGADO ANUALMENTE: 10
CENTROS DE PESQUISA: LAPET / LAPLAN / LABGEO / LEUA / LGF / LEG
SITE DA INTERNET: http://www.ufgd.edu.br/fch/geografia

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. Sedeval Nardoque, Coordenador do Curso de Geografia, Dourados, MS, Brasil, Telefone: 55 67 3410-2268, geografia@ufgd.edu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: Curso: Geografia Modalidades do Curso: Bacharelado e Licenciatura Título acadêmico conferido: Bacharel e/ou Licenciado em Geografia Modalidade de ensino: Presencial Regime de matrícula: Seriado semestral a partir de 2009 Período de integralização: Mínimo 8 (oito) semestres para Licenciatura ou Bacharelado e 10 (dez) Semestres para Licenciatura e Bacharelado. Máximo 15 (quinze) semestres Carga Horária: - Bacharelado 3.312 horas - Licenciatura 3.630 horas Número de vagas: 70 (setenta) por turma Turno de funcionamento: Noturno e Sábados (manhã e tarde) Secretaria da Coordenação Coordenador: Prof. Dr. Sedeval Nardoque Secretário: Gilson Carlos Visú Horário de Atendimento ao Público: de segunda-feira a sexta-feira, das 13h15min às 17 h e 18 h às 22h. Endereço: Unidade II do Campus de Dourados, Rodovia Dourados – Itahum – Km 12 – Cidade Universitária Fone: (67) 3410-2268 Histórico do Curso: Legalmente, o Curso de Geografia do Campus de Dourados (UFMS) obteve autorização de funcionamento através da Portaria RTR/UFMS nº 102, de 9 de setembro de 1982 e reconhecimento pela Portaria MEC nº 553, de 11 de novembro de 1987, publicada no Diário Oficial da União de 12 de novembro de 1987. Foi criado em 1983 com funcionamento no período matutino, oferecendo 32 vagas para formação em Licenciatura Plena. A partir de 1991 o período de funcionamento foi transferido para o noturno com a ampliação para 45 vagas. A demanda matutina mostrou-se insuficiente por tratar-se de um curso de licenciatura cuja clientela potencial são alunos que exercem atividades profissionais durante o dia. Em 1999, o curso teve seu número de vagas novamente ampliado para 50. Durante todo período de funcionamento, o curso tem primado, por melhorias na qualidade do ensino, extensão e pesquisa, com destaque para esta última. É possível elencar ganhos qualitativos para o curso de Geografia da UFGD no que diz respeito à qualificação do corpo docente e à inserção do curso na comunidade através de atividades de pesquisa e de extensão. Com a criação da UFGD em 2005 e sua implantação em 2006, o curso de Geografia teve seu quadro docente ampliado de dez para dezesseis professores sendo: 14 doutores, 1 mestre e 1 especialista. Tal ampliação representou não só maior número de docentes diretamente envolvidos com o curso como também a diversificação de áreas de pesquisa, com destaque para formação de um núcleo voltado às temáticas ambientais e da Geografia Física. No ano de 2007, foi implantado Programa de Pós-Graduação em Geografia –nível Mestrado. É de reconhecido saber que o funcionamento do Mestrado em muito 4 alavanca a qualidade da

formação da graduação e isso deve ser computado como um dos pontos fortes do Curso de Geografia da UFGD.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: OBJETIVOS: Licenciatura Geral: Formar profissionais para o exercício do magistério no ensino fundamental, médio e superior. Específicos: Formar profissionais com domínio dos conhecimentos da ciência geográfica que assegurem uma base sólida para a construção de uma prática pedagógica autônoma e sintonizada com as atuais necessidades do ensino desta disciplina; Habilitar o profissional a realizar a transposição didática dos conhecimentos geográficos de acordo com o estágio de desenvolvimento cognitivo dos alunos; Habilitar o profissional para o planejamento e execução das atividades didáticas, visando o desenvolvimento do processo de alfabetização geográfica dos alunos no ensino fundamental e médio. Bacharelado Objetivo Geral: Formar profissionais com domínio das habilidades e competências necessárias ao exercício da profissão de Geógrafo, segundo as especificações da Lei no 6664/79 e alterações decorrentes. Objetivos Específicos: Formar profissionais habilitados a:- realizar reconhecimentos, levantamentos, estudos e pesquisas de caráter físicogeográfico, biogeográfico, antropogeográfico e geoeconômico e as realizadas nos campos gerais e especiais da Geografia que se fizerem necessárias;- delimitar e caracterizar regiões e sub-regiões geográfico-naturais e zonas geoeconômicas para fins de planejamento e organização do espaço;- equacionar em escala nacional, regional ou local problemas relacionados ao potencial geoecológico do País, objetivando a elaboração de medidas que visem o desenvolvimento e a diminuição dos impactos socioambientais negativos;- analisar e elaborar medidas de gestão do território, respeitando a capacidade de resiliência do ambiente e as características sociais existentes;- elaborar zoneamento socioambiental, de áreas urbanas e rurais, com vistas ao planejamento, incluindo, as escalas nacional, regional e local;- realizar estudos de diagnóstico e análise dos aspectos ecológicos e etológicos da paisagem geográfica e problemas conexos;- trabalhar na elaboração de políticas de povoamento, migração interna, migração e colonização de regiões novas ou de revalorização de regiões de velho povoamento;- trabalhar no estudo físico-cultural dos setores geoeconômicos destinados ao planejamento da produção;- atuar na estruturação ou reestruturação dos sistemas de circulação e de divisão administrativa da União, dos Estados, dos Territórios e dos Municípios quando necessário;- participar de levantamentos e mapeamentos destinados à solução de problemas socioambientais nas escalas nacional, regional e local.

CORPO DOCENTE:
Adauto de Oliveira Souza, Doutor em Geografia
Adelsom Soares Filho, Mestre em Geografia
André Geraldo Berezuk, Doutor em Geografia
Cleonice Gardin, Doutora
Charlei Aparecido da Silva, Doutor em Geografia
Edvaldo César Moretti, Pós-Doutor em Geografia
Flaviana Gasparotti Nunes, Doutora em Geografia
Jones Dari Goettert, Doutor em Geografia
Lisandra Pereira Lamoso, Doutora em Geografia
Márcia Yukari Mizusaki, Doutora em Geografia 17
Maria José Martinelli Silva Calixto, Doutora em Geografia
Mário Cezar Tompes da Silva, Doutor em Geografia
Mário Geraldini, Especialista em Geografia
Pedro Alcântara de Lima, Doutor em Geografia
Sedeval Nardoque, Doutor em Geografia
Silvana de Abreu, Doutora em Geografia

UNIVERSIDADE FEDERAL DE MATO GROSSO DO SUL

CURSO DE GEOGRAFIA
FUNDADO: 1962
PROGRAMAS: Bacharelado
URL PROGRAMA ON-LINE:
http://geoufmscg.blogspot.com
CONTATO PROGRAMA DE BACHARELADO: Ana Paula Correia de Araújo, geo.ccet@ufms.br
CONTATO PROGRAMA DE POS GRADUACAO:
Programa de pós-graduação ainda em elaboração
CENTROS DE PESQUISA: Centro de Ciências Exatas e Tecnologias
SITE DA INTERNET: http://geoufmscg.blogspot.com

CONTATO PARA MAIS INFORMAÇÕES: Ana Paula Correia de Araújo, Coordenador, Campo Grande, Mato Grosso do Sul, Brasil, Telefone: (67) 3345-7450, geo.ccet@ufms.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O curso de Geografia UFMS/CCET é um curso novo que privilegia a formação científica, técnica e aplicada necessária à atuação do geógrafo, em atendimento à Lei 6.664, de 26/06/1979, que cria a profissão e define suas atribuições profissionais. As instalações estão ainda em fase de construção. Em breve, o curso oferecerá aos seus estudantes e profissionais laboratórios e gabinetes de estudos e pesquisa, além de desfrutar das bases de pesquisa da UFMS, situadas no Pantanal Sul-Mato-Grossense. A proposta é de um curso aberto e atuante, com base em parcerias com órgãos públicos e ONG's, e voltado para a inserção de seus estudantes no mercado de trabalho.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: A Geografia consolida teoricamente sua posição como prática social, pedagógica e científica que busca conhecer, explicar e ensinar a organização do espaço, tanto em relação aos aspectos físicos como humanos. A dinâmica e a complexidade das análises geográficas, bem como suas relações com outras áreas do conhecimento, podem ser percebidas na estrutura curricular proposta para o curso, na modalidade Bacharelado. As particularidades e as generalidades são analisadas nas diferentes escalas geográficas e históricas. O curso de Bacharelado visa formar geógrafos com capacidade de responder as necessidades atuais do país revendo as formas tradicionais de utilização de recursos, analisando as transformações recentes no país e no mundo, participando da reorganização dos espaços mal aproveitados e na organização dos espaços a serem conquistados. Profissional capacitado, por uma linguagem científica moderna, a um trabalho interdisciplinar, (fundamental para o encontro de soluções que atenuem os desequilíbrios setoriais e regionais), bem como em firmas particulares de planejamento, indica a crescente demanda de "profissionais do espaço terrestre" que a Universidade deve preparar. Os conteúdos básicos e complementares da Geografia organizam-se em torno de: Núcleo específico – conteúdos referentes ao conhecimento geográfico; Núcleo complementar – conteúdos considerados necessários à aquisição de conhecimento geográfico e que podem ser oriundos de outras áreas de conhecimento, mas não excluem os de natureza específica da Geografia; Núcleo de opções livres – disciplinas optativas, cujos conteúdos serão escolhidos pelo próprio aluno, com orientação de um professor. O Aluno deverá cumprir seis disciplinas optativas de 68h/a, ao longo do curso, oferecidas na modalidade presencial e/ou distância, totalizando 408 h/a de carga horária. O Curso de Graduação de Bacharelado em Geografia será ministrado em quatro anos (8 semestres). A estrutura curricular envolve disciplinas obrigatórias e optativas visando estreitar as relações no plano didático-pedagógico e qualificar o currículo do profissional formado na Instituição. Em paralelo, o currículo contém o Trabalho de Conclusão

de Curso – TCC, obrigatório, desenvolvido durante o último ano do Curso, sob supervisão de um professor orientador previamente estabelecido. O Trabalho de Conclusão de Curso envolve: desenvolvimento de projeto de pesquisa ou; produto (vídeo, cartilha, jogos, software, etc.) ou; projeto de intervenção. Os eixos de conteúdos básicos e específicos e livres se articulam através de atividades complementares, Estágios, trabalhos de campo e aulas práticas. O Estágio Obrigatório será presencial, em empresas públicas e privadas do estado de Mato Grosso do Sul, e supervisionado. Atividades de campo serão previamente agendadas com os alunos e professores para sua realização a partir das necessidades de cada disciplina e do curso.

PROFESSORES:

Ana Paula Correia de Araújo — Geógrafa, doutora em Geografia - Geografia Rural - Universidade Federal do Rio de Janeiro

Icléia Albuquerque de Vargas — Geógrafa, doutora em Meio Ambiente e Desenvolvimento - Universidade Federal do Paraná

Antônio Conceição Paranhos Filho — Geólogo, doutor em Geologia Ambiental - Universidade Federal do Paraná

Emília Mariko Kashimoto — Geógrafa e Arqueóloga, livre-docente em Arqueologia - Universidade de São Paulo

Sérgio Ricardo Oliveira Martins — Geógrafo, doutor em Geografia Humana - População e Desenvolvimento - Universidade de São Paulo

Júlio César Gonçalves — Geógrafo, doutor em Geografia Física - Climatologia - Universidade de São Paulo

Mara Aline Santos Ribeiro — Geógrafa, doutoranda em Geografia - Universidade de Campinas

Sérgio Wilton Gomes Isquierdo — Geógrafo, doutor em Geografia Física - Universidade de São Paulo

UNIVERSIDADE FEDERAL DE MINAS GERAIS

DEPARTAMENTO DE GEOGRAFIA
FUNDADO: 1929
PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura, Bacharelado (à Distância/Virtuais)
URL PROGRAMA ON-LINE:
http://www.igc.ufmg.br/departamentos/geografía.htm
http://www.igc.ufmg.br/cursos/geografía.htm
http://www.ufmg.br/pos/geografía/
CONTATO PROGRAMA DE BACHARELADO: Ana Maria Simões, geoggrad@igc.ufmg.br
BACHARELADOS OUTORGADO ANUALMENTE: 20
POS GRADUACAO OUTORGADO ANUALMENTE: 20
CONTATO PROGRAMA DE POS GRADUACAO: Antônio Pereira Magalhães Junior, posgeog@igc.ufmg.br
CENTROS DE PESQUISA: Centro de Pesquisa Manoel Teixeira da Costa
SITE DA INTERNET: www.igc.ufmg.br

CONTATO PARA MAIS INFORMAÇÕES: Antônio Pereira Magalhães Junior, Coordenador do Programa de Pós-Graduação em Geografia, Belo Horizonte, Brasil,
Telefone: (31) 3409 5404; 3409 5421, Fax: (31) 3409 5410, 248 geografía@igc.ufmg.br; posgeog@igc.ufmg.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:
A 248eografía248 do Departamento de Geografia na UFMG antecede a própria criação do Instituto de Geociências, pois o Departamento fazia parte da antiga Faculdade de Filosofia desta Universidade, atendendo então, prioritariamente, ao curso de graduação em Geografia e História, posteriormente desmembrados. Atualmente o Departamento atende a quatro cursos de graduação no Instituto de Geociências (Geografia Diurno, Geografia Noturno, Turismo e Geologia), além de outros na Escola de Arquitetura e Faculdade de Filosofia e Ciências Humanas da UFMG. Atende ainda aos cursos de pós-graduação strito sensu (mestrado e doutorado) em Geografia, além de apoiar cursos de especialização ligados ao Programa de Pós-Graduação em Geografia e outros. Seu corpo docente é formado por vinte e três doutores, dez 248eograf e um especialista. O Departamento de Geografia da UFMG compreende dois cursos de graduação: Geografia e Turismo, sendo que o curso de Geografia é oferecido nos turnos diurno (40 vagas anuais) e noturno (80 vagas anuais). O curso de Turismo é ofertado somente no período diurno (40 vagas anuais). O Programa de Pós-Graduação em Geografia 248eogra os cursos de Mestrado e Doutorado em Geografia, em duas áreas de concentração: Análise Ambiental e Organização do Espaço. Atualmente são 22 professores credenciados no Programa e 160 alunos. O curso de Mestrado foi iniciado em 1988 e o de Doutorado foi iniciado em 2003. Atualmente possui conceito 5 no sistema da CAPES. O Departamento de Geografia possui atualmente 34 professores, sendo que 27 já são doutores e os demais estão cursando o doutorado. O curso de Geografia e o Programa de Pós-Graduação em Geografia da UFMG são considerados de excelente qualidade em nível nacional, estando sempre posicionados nas primeiras posições nos rankings elaborados pelos órgãos do governo federal e agências de fomento. Tradicionalmente, o Departamento de 248eografía da UFMG se destaca nas áreas de Geomorfologia, pedologia, Georafia e meio ambiente, recursos hídricos, 248eografía248gí, 248eografía urbana e 248eografía social. O Departamento de Geografia funciona no Instituto de Geociências da UFMG. Conta com 248eogra 248eografía248gí (Laboratório de Geomorfologia; Laboratório de Geoprocessamento, etc.), biblioteca e 248eografía. O curso de Geografia tem a duração de 04 anos (08 períodos letivos) no período diurno e 05 anos (10 períodos letivos) no período noturno. Os alunos cursam disciplinas obrigatórias e disciplinas optativas, a maioria com carga horária de 60 horas-aula. Muitas das disciplinas possuem atividades práticas e trabalhos de campo que permitem aos alunos a complementação dos conteúdos teóricos. O curso de Geografia conta, para os trabalhos de campo, com as instalações do Instituto Casa da Glória situado na cidade de Diamantina, o qual permite a hospedagem e alimentação dos alunos e 248eografía248. O Instituto Casa da Glória apresenta excelentes instalações e permite que os alunos conheçam diferentes dimensões geográficas de uma das mais ricas regiões do Brasil em termos físicos e humanos. O curso de mestrado tem a duração máxima de 02 anos e o de doutorado tem a duração máxima de 04 anos. Também é ofertado o curso de graduação em Geografia, modalidade bacharelado, à 248eografía. São contemplados 4 cidades de Minas Gerais, totalizando 160 alunos. O curso á 248eografía segue o mesmo padrão e estrutura do curso presencial. As ementas das disciplinas ofertadas (e seus objetivos), além de outras informações, podem ser encontradas no site www.igc.ufmg.br (Departamento de Geografia).

REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA:
Para o ingresso no curso de graduação, ocorre um 248eograf seletivo de vestibular anual no qual são abertas 40 vagas para o turno diurno e 80 vagas (2 turmas) para o período noturno. Para o Programa de Pós-graduação também há um 248eograf seletivo marcado pelas seguintes etapas: Análise dos projetos pelos prováveis orientadores indicados pelos candidatos; prova de idiomas; prova de conhecimentos específicos; análise do currículo e histórico escolar; entrevista. Em 2011 foram disponibilizadas 09 vagas para o doutorado e 23 vagas para o mestrado. O curso de graduação recebe apoio 248eografía248 da Pró-Reitoria de Graduação em termos de recursos e bolsas de iniicação científica para alunos. Também recebe apoio de agências de fomento nacionais como a CAPES, o CNPq e a FAPEMIG. Diversos alunos são contemplados com bolsas de iniciação científica e alguns 248eografía248 são bolsistas do CNPq. As disciplinas comuns às modalidades de licenciatura e bacharelado, ou à modalidade de licenciatura dos cursos diurno e noturno, permitem que o aluno matriculado no curso diurno possa cursa-las no curso noturno e vice-

versa (no caso da licenciatura). Para isto, basta que o aluno siga as 249eografía249 curriculares e que haja vaga disponível.Após formado, o aluno pode optar por cursar a outra modalidade do curso (licenciatura ou bacharelado), solicitando continuação de estudos. Para isto, 249eogra cursar as disciplinas exigidas. A duração média da complementação é de um ano e meio. Ocorrem duas entradas por ano no curso de 249eografía, sendo uma no início do 1º semestre letivo para os alunos do curso diurno (40 vagas), e outra no início do 2º semestre letivo para os alunos do curso noturno (40 vagas). São oferecidas 40 vagas anuais para o curso diurno (entradas no 1º semestre) e 40 vagas anuais para o curso noturno (entradas no 2º semestre). Os alunos dos cursos de Geografia possuem diferentes opções de estágios e 249eografía249gí nacionais e internacionais oferecidos dentro dos programas e acordos da UFMG, incluindo países do Mercosul, Europa e EUA.

CORPO DOCENTE:

Adriana Monteiro da Costa (Dra) — Pedologia Situação funcional: Professor Adjunto

Allaoua Saadi (Dr.) — Geomorfologia; turismo Situação funcional: Professor Titular

Altair Sancho Pivoto dos Santos (mestre) — Turismo Situação funcional: Professor Assistente

Ana Maria Simões Coelho (mestre) — História do pensamento geografico; Prática de ensino Situação funcional: Professora Assistente

Ana Paula Guimarães Santos (mestre) — Turismo Situação funcional: Professora

André Augusto Rodrigues Salgado (Dr.) — Geomorfologia Situação funcional: Professor Adjunto

André Velloso Batista Ferreira (Dr.) — Metodologia da pesquisa em geografia; Geografia humana Situação funcional: Professor Adjunto

Antônio Pereira Magalhães Júnior (Dr.) — Geografia e recursos hídricos; geomorfologia; geografia e meio ambiente Situação funcional: Professor Adjunto

Bernardo Machado Gontijo (Dr.) — Biogeografia; geografia e meio ambiente Situação funcional: Professor Adjunto

Carlos Henrique Jardim (Dr.) — Climatologia Situação funcional: Professor Adjunto

Cássio Eduardo Vianna Hissa (Dr.) — Metodologia da pesquisa em geografia; geografia humana Situação funcional: Professor Adjunto

Célio Augusto da Cunha Horta (mestre) — Geografia humana; geografia política Situação funcional: Professor Assistente

Claúdia Lamounier Freitas (mestre) — Turismo Situação funcional: Professor Adjunto

Claudinei Lourenço (Dr.) — História do pensamento geográfico; Prática de ensino Situação funcional: Professor Adjunto

Cristiane Valéria de Oliveira (Dra.) — Pedologia; geografia e meio ambiente Situação funcional: Professor Associado

Cristina Helena Ribeiro Rocha Augustin (Dra.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Titular

Doralice Barros Perreira (Dra.) — Geografia humana Situação funcional: Professor Adjunto

Fabiana Andrade Bernardes Almeida (mestre) — Turismo Situação funcional: Professor Assistente

Geraldo Magela Costa (Dr.) — Geografia urbana; planejamento urbano Situação funcional: Professor

Helder Lages Jardim (Dr.) — Geoprocessamento; sensoriamento remoto; cartografia Situação funcional: Professor Adjunto

Heloísa Soares de Moura Costa (Dra) — Planejamento regional; planejamento urbano; geografia humana Situação funcional: Professor Associado

Janise Bruno Dias (Dra.) — Biogeografia; geografia e meio ambiente Situação funcional: Professor Adjunto E-mail: janisebruno@yahoo.com.br Telefone: 3409-5438 Sala: 325

Magda Luzimar de Abreu (Dra.) — Climatologia Situação funcional: Professor Associado E-mail: magda@csr.ufmg.br Telefone: 3409-6233 Sala: 313

Márcia Maria Lousada (mestre) — Turismo Situação funcional: Professor Assistente E-mail: lousadamarcia@yahoo.com.br Telefone: 3409-5409 Sala: 326

Maria Aparecida dos Santos Tubaldini (Dra.) — Geografia agrária Situação funcional: Professor Associado E-mail: ubaldini1@uol.com.br Telefone: 3409-5493 Sala: 329

Maria Luiza Grossi Araújo (Dra.) — Geografia agrária; geografia humana Situação funcional: Professora Adjunto E-mail: mluizagrossi@bol.com.br Telefone: 3409-5436 Sala: 321

Mariana de Oliveira Lacerda (mestre) — Turismo Situação funcional: Professor Assistente E-mail: mirilacerda@gmail.com Telefone: 3409-6237 Sala: 2046

Marly Nogueira (Dra.) — Geografia urbana; geografia humana Situação funcional: Professor Adjunto E-mail: nogueira.marly@yahoo.com.br Telefone: 3409-5431 Sala: 308

Philippe Maillard (Dr.) — Geoprocessamento Situação funcional: Professor Adjunto E-mail: philippe@ufmg.br Telefone: 3409-5461 Sala: 319

Ralfo Edmundo da Silva Matos (Dr.) — Geografia urbana; geografia humana Situação funcional: Professor Associado E-mail: ralfo@ufmg.br Telefone: 3409-5426 Sala: 330

Ricardo Alexandrino Garcia (Dr.) — Métodos quantitativos em geografia; geografia urbana Situação funcional: Professor Adjunto E-mail: alexandrinogarcia@gmail.com Telefone: 3409-6331 Sala: 308

Roberto Célio Valadão (Dr.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Associado E-mail: valadao@ufmg.br Telefone: 3409-5434 Sala: 315

Sandra Maria Lucas Pinto Silva (mestre) — Geografia humana Situação funcional: Professora Assistente E-mail: sandralucasgeo@yahoo.com.br Telefone: 3409-5422 Sala: 317

Sérgio Manuel Merêncio Martins (Dr.) — Geografia urbana; geografia humana Situação funcional: Professor Adjunto E-mail: sergiomartins@ufmg.br Telefone: 3409-5439 Sala: 307

Valéria Amorim do Carmo (Dra.) — Cartografia; Sensoriamento remoto; geografia e educação Situação funcional: Professor Adjunto E-mail: vamorimbh@yahoo.com.br Telefone: 3409-5432 Sala: 2044

Valéria de Oliveira Roque Ascenção (Dra.) — Prática de ensino em geografia; geografia e educação Situação funcional: Professor Adjunto E-mail: valeriaroque@gmail.com Telefone: 3409-5493 Sala: 329

Vilma Lúcia Macagnan Carvalho (Dra.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Associado E-mail: vlmc@ufmg.br Telefone: 3409-5435 Sala: 311

Weber Soares (Dr.) — Geografia humana; geografia urbana; redes Situação funcional: Professor Adjunto E-mail: weber.igc@gmail.com Telefone: 3409-5436 Sala: 321

Wellington Lopes Assis (Dr.) — Climatologia Situação funcional: Professor Adjunto E-mail: assisw@gmail.com Telefone: 3409-5430 Sala: 305

William Rosa Alves (mestre) — Geografia humana Situação funcional: Professor Assistente E-mail: wralves.bhz@uol.com.br Telefone: 3409-5437 Sala: 323

UNIVERSIDADE FEDERAL DE PERNAMBUCO (UFPE)

DEPARTAMENTO DE CIÊNCIAS GEOGRÁFICAS
DATE FOUNDED: 1950
GRADUATE PROGRAM FOUNDED: 1976 (Master); 2004 (Doctor)
DEGREES OFFERED: Bacharelado, Licenciatura, Mestrado e Doutorado em Geografia
GRANTED 5/1/09-7/31/10: Bacharelados e Licenciados, 123; Mestres, 17; Doutores, 8
STUDENTS: Mestrado, 65; Doutorado, 38
CHAIR: Dr. Ranyere Nóbrega

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Departamento de Ciências Geográficas, Cidade Universitária, Edifício dos Institutos Básicos, CFCH, 60 andar, Cep 50640001 - Recife, Estado de Pernambuco, Brasil. Phone Number: 55-81-21268275; Fax Number: 55-81-21268275; e-mail address: Depcienciasgeograficas@yahoo.com.br.

PROGRAMS AND RESEARCH FACILITIES: The Department offers Geography Programs at Undergraduate (Bacharelado e Licenciatura) and Graduate (Master and Doctor) levels and these Programs provide training in Area and Systematic Studies. The Department through its Programs aims to strengthening a comprehensive view of Geography seeing this discipline as broadly interested in the study of the relationship between Society/Culture and Environment. Graduate courses are designed to facilitate student's research on their topics of interest and allow them to adopt applied or basic research attitudes. The Geography Graduate and Undergraduate Programs at the Universidade Federal de Pernambuco (UFPE) are surrounded by many others consolidated and productive Graduate and Undergraduate Programs in the Human Sciences (History and Archaeology, Anthropology, Political Science, Sociology, Urban Development, Economics, Social Work, Psicology, Education, Philosophy), in the Environmental Sciences and Engineering (Cartography, Geology, Environmental Sciences, Oceanography, Computer Sciences etc), in the Health Sciences (Public Healthy, Tropical Diseases, Medicine, Odontology, Nutrition, Occupational Teraphy, etc), in the Law Sciences and in Education. Not few of these programs are on the highest positions of prestige in the country and are highly interative at international level. It results that students from Brazil or abroad, being they at Graduate or Undergraduate Programs, are expected to benefit from these strong advantages which exist beyond the strict confines of the Department. The UFPE has a high record of professional sustained cooperation with other Universities in Brazil and abroad. Main focal topics of graduate research are: a) Settlement & Change in Developing Regions; b) Urban Planning; c) Economic & Regional Planning; d)Tourism, Development and Spatial & Environmental Changes; e) Geomorphology, Water Resources and Ecology.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Undergraduate, 4 to 6 years; Master, 2 years including Thesis; Doctor, 4 years including Dissertation. *Admission graduate requirements:* interests in the field coincident with those of the Department, and clear evidence of competence to pursue graduate work at the Mestrado (Master) or Doutorado (Doctor) level; application requires curriculum vitae and research project (details: www.ufpe.br or cmgeo@ufpe.br), and other additional requirements (writing test, Portuguese language proficiency, letters of recommendation, for example) according to the Graduate Program Coordination. *Financial Aid:* possibilities of support through Brazilian federal programs which are available for nationals and foreigners (www.capes.gov.br).

FACULTY:
Nilson Crocia de Barros, Dr (1987) and Livre Docente (2004),U. de São Paulo — regional development, history of geography
Jan Bitoun, Dr, U. de Paris, 1982 — urban geography & policy
Tânia Bacelar de Araújo, Dr, U. de Paris, 1982 — economic & policy
Marlene Silva, Dr, U. de São Paulo, 1994 — agricultural geography
Ana Cristina Fernandes, Dr, U. of Sussex, 1996 — economic & regional policy
Edvânia T. Gomes, Dr, U. de São Paulo, 1997 — urban geography
Alcindo José de Sá, Dr, U. de São Paulo, 1998 — economics & agriculture
Eugênia Pereira, Dr, U. Federal Rural de Pernambuco, 1998 — botany
Maria Fernanda Torres, Dr, Universidade de São Paulo, 1999 — oceanography
Maria Bezerra de Araújo, Dr, U. Federal de Viçosa, 2000 — environment & soils
Antônio Carlos Correa, Dr, U. Estadual Paulista/R. Claro, 2001 — Geomorphology and Quaternary
Claudio Castilho, Dr, U. de Paris, 2001 — urban geography & tourism
Aldemir D. Barbosa, Dr, U. Federal do Rio de Janeiro, 2003 — environment & tourism
Vanice Selva, Dr, U. Federal do R. de Janeiro, 2003 — environment & tourism
Caio Amorim Maciel, Dr, U. Federal do R. de Janeiro, 2004 — cultural & rural geography
Silvana Neves, Dr, U. Federal da Bahia, 2004 — environment & geomorphology
Hernani Loebler Campos, Dr, U. Federal do R. de Janeiro, 2004 — water resources & management
Josicleda Domiciano Galvincio, Dr, U. Federal da Paraíba, 2005 — environment & geotechnology
Claudio Ubiratan Gonçalves, Dr. U. Federal Fluminense, 2005 — rural & regional planning
Fernando Mota Filho, Dr, U. Federal de Pernambuco, 2006 — environment & planning
Rui B. Pordéus, Dr, U. Federal do Rio de Janeiro, 2007 — environment & geotechnology
Ranyere Silva Nóbrega, Dr, U. Federal de Campina Grande, 2008 — meteorology

** Taís Correa, MSc, U. F. de Pernambuco, 1984*
** L. J. de Oliveira, MSc, U. F.de Pernambuco, 1982*
* Activities only at the undergraduate program.

UNIVERSIDADE FEDERAL DE SANTA CATARINA

DEPARTAMENTO DE GEOCIÊNCIAS
FUNDADO: 18 de dezembro de 1960
PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura
URL PROGRAMA ON-LINE: http://www.cfh.ufsc.br/geografia/
CONTATO PROGRAMA DE BACHARELADO: Valmir Volpato, volpato@cfh.ufsc.br
BACHARELADOS OUTORGADO ANUALMENTE: 20
CONTATO PROGRAMA DE POS GRADUACAO: Juliana Blau, secpggeo@cfh.ufsc.br
POS GRADUACAO OUTORGADO ANUALMENTE: 20
CENTROS DE PESQUISA: Centro de Filosofia e Ciências Humanas
SITE DA INTERNET: http://www.cfh.ufsc.br/geografia/

CONTATO PARA MAIS INFORMAÇÕES: Valmir Volpato, Expediente da Coordenadoria, Florianópolis, Santa Catarina, Brasil, Telefone: +55 (48) 3721-9256, Fax: +55 (48) 3721-9983, volpato@cfh.ufsc.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Graduação em Geografia é parte integrante do Departamento de Geociências, nas suas atividades de Ensino/Pesquisa/Extensão, vinculado ao Centro de Filosofia e Ciências Humanas. É atendido por quatro áreas específicas do Departamento de Geociências (Fonte:http://www.cfh.ufsc.br/geografia): 1.Geologia; 2.Cartografia; 3.Geografia física; 4.Geografia humana. O Curso de Geografia da UFSC está definido com base no Currículo Mínimo do CFE e na Lei que regulamenta a Profissão de Geógrafo, pelo sistema CONFEA/CREAs. O Curso de Graduação em Geografia da UFSC tem por objetivo formar Geógrafos nas habilitações de Licenciatura e Bacharelado, como profissionais devidamente habilitados a desenvolver trabalhos de ensino, de pesquisa e de aplicação técnica, nos campos gerais e específicos da ciência geográfica, bem como no equacionamento e proposição de soluções para problemas relativos aos usos dos recursos naturais e implicações sócio-espaciais, em âmbito local, regional e nacional. Assim, o profissional da Geografia deverá saber usar em seu trabalho (ensino, pesquisa e atividades de aplicação técnica), conhecimentos de investigação científica adquiridos na formação acadêmica, a partir de princípios, métodos e técnicas da Ciência Geográfica. Princípios Básicos •Compromisso com a construção do conhecimento geográfico, com a cultura brasileira e com a democracia cidadã.•Compromisso ético com a vida em suas diferentes manifestações naturais e sociais.•Respeito à pluralidade de indivíduos, ambientes, culturas e interação profissional.•Compromisso com a qualificação e competência profissional geográfica.•Atuação propositiva na busca de soluções relativas a questões geográficas.•Envolvimento permanente com os fundamentos teóricos e metodológicos da ciência geográfica:•Desenvolvimento crescente das habilidades gerais e específicas da geografia. Objetivos do Curso Formar profissionais devidamente habilitados a desenvolver atividades de ensino, de pesquisa e de aplicação técnica, a partir de princípios, métodos e técnicas da Ciência Geográfica. Na habilitação LICENCIATURA, formar profissionais para o magistério do ensino fundamental e médio. Na habilitação BACHARELADO, formar profissionais para trabalhar em atividades de reconhecimento, levantamentos, estudos e pesquisas de caráter físico-geográfico e geoeconômico, realizações nos campos gerais e específicos da geografía. Habilidades que articulam tanto a formação de bacharel quanto a de licenciado 1.Articular os elementos conceituais e empíricos, concernentes ao conhecimento científicos dos processos espaciais e sociais. 2.Conhecer, analisar, interpretar e por em prática as diversas manifestações do conhecimento geográfico, tanto ao nível técnico-profissional enquanto bacharel, quanto ao nível do ensino fundamental e médio enquanto licenciado. 3.Articular, interpretar e explorar integradamente, nos diferentes níveis do ensino, da pesquisa, e das atividades voltadas à extensão universitária, os eventos e/ou fenômenos geográficos dirigidos aos elementos naturais e humanos, nas diferentes escalas espaço-temporais. 4.Dominar métodos e técnicas instrumentais de laboratório e de campo, relativas à produção e aplicação do conhecimento geográfico. 5.Planejar, propor, elaborar e executar projetos de pesquisa e de extensão acadêmica no âmbito da Geografia. 6.Interpretar mapas temáticos ou outras representações gráficas e cartográficas. 7.Dominar a língua portuguesa como forma de expressão, para viabilizar a produção e a difusão do conhecimento geográfico. Habilidades mais específicas ao campo do licenciado 1.Atuar no processo ensino-aprendizagem junto às escolas, públicas e privadas, no nível de ensino fundamental e médio. 2.Organizar e dominar os conhecimentos sobre a natureza e sociedade, adequando-os ao processo de ensino-aprendizagem em Geografia nos diferentes níveis de ensino.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Fonte:http://www.cfh.ufsc.br/geografia: 1.O aluno fará opção no vestibular exclusivamente para o Curso de Geografia diurno ou para o noturno. A opção do aluno por Licenciatura ou Bacharelado será feita ao longo do curso. O aluno poderá graduar-se nas duas habilitações desde que cumpra os respectivos currículos. 2.Entrarão duas turmas por ano: uma para o período matutino (diurno) no primeiro semestre do ano letivo e outra para o período noturno no segundo semestre do ano letivo. 3.O curso oferecerá 80 vagas anualmente, sendo 40 vagas para o turno matutino e 40 vagas para o noturno. 4.A duração da habilitação Bacharelado será de 8 semestres, sendo o mínimo de 6 semestres e o máximo de 14 semestres para a integralização das disciplinas. A duração da habilitação Licenciatura será de 9 semestres, sendo o mínimo de 7 semestres e o máximo de 16 semestres para a integralização das disciplinas. 5.As disciplinas terão 18 semanas de aulas por semestre letivo. 6.Como disciplinas optativas, o aluno poderá escolher quaisquer disciplinas oferecidas pela UFSC, obedecidos os pré-requisitos na sua origem, não podendo ultrapassar 20% da carga horária mínima do curso. (Conforme estabelecido pelo documento "Orientações Básicas para a Reforma Curricular nos Cursos de Graduação" elaborado pela equipe DCN/DEG/PREG-UFSC [Professora Dra. Araci Hack Catapan, Professor Dr. Marcos Laffin e assessoria especial de prof. Dra. Maria Conceição Manhães]) 7.As disciplinas obrigatórias específicas do currículo do curso de Bacharelado poderão ser optativas para o curso de Licenciatura, da mesma forma que as disciplinas obrigatórias específicas do currículo do curso de Licenciatura poderão ser optativas para o Curso de Bacharelado. 8.Para subsidiar o aluno na escolha da habilitação que deseja desenvolver no decorrer do curso - Bacharelado ou Licenciatura - foi incluído na quarta e última unidade do Programa da Disciplina História do Pensamento Geográfico oferecida na 1a. fase, conteúdo programático específico denominado "A formação profissional e o mundo do trabalho: Bacharelado e Licenciatura", destinado a detalhar as diferenças entre as duas habilitações. 9.O aluno deverá desenvolver ao longo do curso atividades acadêmico-científico-culturais correspondentes a 200 horas, detalhado no link Atividades Acadêmicas 10.O Exame Nacional de Desempenho dos Estudantes – ENADE, é componente curricular obrigatório conforme Lei no 10.861, de 14 de abril de 2004, "sendo inscrito no histórico escolar do estudante somente a sua situação regular com relação a essa obrigação, atestada pela efetiva participação ou, quando for o caso, dispensa oficial pelo Ministério da Educação, em forma estabelecida em regulamento".11.A carga de horas/aula semanal média em sala de aula será para Bacharelado será de 20 H/A e para Licenciatura será de 20 H/A, considerando-se a realização de optativas. 12.O currículo deverá ser implantado gradativamente (Conforme Resolução nº 017/CUn/97), com implantação da 1ª fase no primeiro semestre do ano de 2007, evitando prejuízos aos alunos vinculados ao currículo atual (implantados em 1992/1 – diurno e 1992/2- noturno). 13.As horas/aula assinaladas com as letras PCC, (veja link Matriz Curricular), correspondem às horas-aula de Prática como Componente Curricular, voltadas à formação do futuro professor, conforme regulamentação específica. (Resolução Nº 2, de 19 de fevereiro de 2002 e Resolução Nº 1, de 18 de fevereiro de 2002) 14.As horas/aula indicadas na observação a serem realizadas fora do horário normal de aula (veja link Matriz Curricular), correspondem a atividades que poderão ocorrer em finais de semana (sábado e/ou domingo) e/ou durante a semana, de acordo com plano de ensino e destinam-se a: 1) realização de trabalho de campo; 2) levantamento de dados em órgãos públicos para trabalhos acadêmicos; 3) leituras obrigatórias das respectivas disciplinas; 4) realização de trabalhos em equipes: teóricos ou práticos; 5) realização de avaliação com consulta bibliográfica: provas, monografias, etc.; 6) assistência de aulas em estabelecimentos de ensino que estão desenvolvendo conteúdos relativos à respectiva disciplina.

PROFESSORES:
Alessandra Larissa D'Oliveira Fonseca — Oceano
Ângela da Veiga Beltrame — Biogeografia
Carla Van Der Haagen Custodio Bonetti — Oceanografia Costeira
Carlos José Espíndola — Econômica
Clécio Azevedo da Silva — Rural / Alimentação

Edison Ramos Tomazzoli — Geologia
Élson Manoel Pereira — Urbana
Érico Porto Filho — Ambiental
Ewerton Vieira Machado — Urbana
Gerusa Maria Duarte — Geologia / Recursos Hídricos
Harrysson Luiz da Silva — Brasil
Jarbas Bonetti Filho — Oceanografia
João Carlos Rocha Gré — Sedimentologia
Joel Robert Georges Marcel Pellerin — Cartografia
José Messias Bastos — Econômica
Juan Antonio Flores — Geologia
Leila Christina Duarte Dias — História da Geografia
Luiz Antônio Paulino — Cartografia
Luiz Fernando Scheibe — Geologia / Ambiental
Magaly Mendonça — Climatologia
Marcelo Accioly Teixeira de Oliveira — Geomorfologia
Marcos Aurélio da Silva — Econômica
Maria Lúcia de Paula Herrmann — Geomorfologia
Nazareno José de Campos — Urbana / Rural
Norberto Olmiro Horn Filho — Geologia
Paulo Roberto Pagliosa Alves — Oceano
Rosemy da Silva Nascimento — Cartografia e Educação Ambiental
Ruth Emília Nogueira Locho — Cartografia
Walquíria Krüger Corrêa — Rural Curriculum Vitae Lattes

UNIVERSIDADE FEDERAL DE SANTA MARIA

DEPARTAMENTO DE GEOCIÊNCIAS
FUNDADO: 13 de setembro de 1961
PROGRAMAS: Bacharelado, Licenciatura Plena, Licenciatura Plena (à Distância/Virtuais), Mestrado, Doutorado, Pós-doutorado
URL PROGRAMA ON-LINE: www.ufsm.br/geografia e www.ufsm.br/ppggeo
CONTATO PROGRAMA DE BACHARELADO: Cássio Arthur Wollmann (cassio_geo@yahoo.com.br)
CONTATO PROGRAMA DE LICENCIATURA PLENA: Cássio Arthur Wollmann (cassio_geo@yahoo.com.br)
CONTATO PROGRAMA DE LICENCIATURA PLENA (À DISTÂNCIA/VIRTUAL): Meri Lourdes Bezzi (meribezzi@yahoo.com.br)
CONTATO PROGRAMA DE PÓS-GRADUACAO: Eliane Maria Foleto (efoleto@gmail.com)
CENTROS DE PESQUISA: Centro de Ciências Naturais e Exatas / Universidade Federal de Santa Maria
SITE DA INTERNET: www.ufsm.br/ccne

CONTATO PARA MAIS INFORMAÇÕES: Carmen Rejane Flores Wisniewsky – Chefe de Departamento (carmenrejanefw@gmail.com)

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:
APRESENTAÇÃO O curso de Geografia na Universidade Federal de Santa Maria é ministrado há 44 anos. Desde a sua criação, consolidou-se como grande formador de profissionais no mercado local, regional e nacional. Atualmente, o curso conta com 270 alunos. Nos últimos anos, as disciplinas oferecidas pelo Departamento de Geociências têm tido grande procura por parte de alunos de outros cursos. HABILITAÇÕES: O Departamento de Geociências oferece habilitações na área de Licenciatura Plena a Bacharelado. Para a conclusão do curso, o aluno deve permancer na faculdade no mínimo 6 semestres, e no máximo 12. Ao exceder esse limite o aluno entra em processo de jubilamento. O aluno deve optar por fazer uma opção de habilitação já na inscrição do processo seletivo. OBJETIVOS DO CURSO O curso visa a formação de professores de ensino básico e médio, geógrafos e pesquisadores em Geografia. O aluno formado em Licenciatura Plena pode exercer sua profissão dando aulas de Geografia no ensino básico, tanto em escolas públicas quanto em particulares. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho, também como pesquisador, podendo trabalhar em diversos órgãos, ou apenas prestando consultoria. O ESTUDANTE DE GEOGRAFIA O estudante de Geografia necessariamente deve ter aptidão para pesquisa, seja ela de campo ou teórica e ter grande perceptividade. Saber compreender e analisar o que acontece no espaço local, regional e mundial é de suma importância. LABORATÓRIOS O Departamento de Geociências possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram a lista são: GPET – Grupo de Pesquisa em Educação e Território; NERA - Núcleo de Estudos e Pesquisas Regionais e Agrários; NEA – Núcleo de Estudos Ambientais - CLIMAGEO/SAGEO; LEPER - Laboratório de Estudo e Pesquisa Regional; LAGED - Laboratório de Geoecologia e Educação Ambiental; LaGeoUr - Laboratório de Geografia Urbana; LAGEOLAM - Laboratório de Geologia Ambiental; LABGEOTEC - Laboratório de Geotecnologias; HIDROGEO - Laboratório de Hidrogeografia; LABHIDROGEO - Laboratório de Hidrogeologia; Laboratório de Geomorfologia e Percepção da Paisagem; Laboratório de Geografia e EAD; Laboratório de Geoprocessamento; Laboratório de Paleobiologia/Estratigrafia; Núcleo de Ensino em Geografia; Laboratório de Sedimentologia; Grupo de Pesquisa em Educação e Território; Núcleo de Estudos Regionais e Agrários; Laboratório de Estudos e Pesquisas Regionais; Laboratório de Geografia Urbana; Laboratório de Estudo Ambiental; Laboratório de Geologia Ambiental; Laboratório de Cartografia.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O aluno ingressante no curso de Geografia Licenciatura Plena cumpre um total de 51 disciplinas obrigatórias e 10 optativas. O aluno ingressante no curso de Geografia Bacharelado cumpre um total de 53 disciplinas obrigatórias e 10 aoptativas. Ao final do curso obtêm, respectivamente, o título de licenciado em Geografia e bacharel em Geografia. O curso é gratuito, pois é oferecido por instituição pública de ensino federal.

PROFESSORES:
Adriano Severo Figueiró, adri.geo.ufsm@gmail.com — Biogeografia, Estudos ambientais, Geografia física (geral).
André Weissheimer de Borba awborba.geo@gmail.com — Estudos ambientais, Castástrofes / áreas de risco, Geografia física (geral).
Andrea Valli Nummer a.nummer@gmail.com — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).
Átila Augusto Stock da Rosa atiladarosa@gmail.com — Estudos ambientais, Geografia física (geral).
Bernardo Sayão Penna e Souza bernardosps@yahoo.com.br — Geomorfologia, Geografia física (geral), Sensoriamento remoto.
Benhur Pinós da Costa benpinos@gmail.com — Geografia econômica, Estudos de gêneros, Geografia social.
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Gilda Maria Cabral Benaduce g.benaduce@gmail.com — Educação geográfica, Geografia urbana, Geografia da População.

José Luiz Silvério da Silva silverioufsm@gmail.com — Recursos hídricos, Estudos ambientais, Geografia física (geral).
Lauro Cesar Figueiredo laurocfigueiredo@hotmail.com — Pensamento geográfico, Ecologia cultural, Geografia cultural.
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Luis Eduardo de Souza Robaina lesrobaina@yahoo.com.br — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).
Mauro Kumpfer Werlang wermakwer@gmail.com — Métodos quantitativos, Geomorfologia, Geografia física (geral).
Meri Lourdes Bezzi meribezzi@yahoo.com.br — Pensamento geográfico, Geografia cultural, Geografia rural
Rivaldo Mauro de Faria rivaldo.faria@ufsm.br — Geografia médica, Geografia urbana, Planejamento (regional, urbano).
Roberto Cassol rtocassol@gmail.com — SIG, SIG (Programa de certificação), Geografia física (geral).
Romário Trentin romario.trentin@gmail.com — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral), SIG.
Sandra Ana Bolfe sabolfe@hotmail.com — Educação geográfica, Geografia urbana, Geografia da População.
Waterloo Pereira Filho waterloopf@gmail.com — SIG, Sensoriamento remoto, Geografia física (geral)

CHEFE DO DEPARTAMENTO:
Carmen Rejane F. Wizniewsky (carmenrejanefw@gmail.com)

SUBCHEFE DO DEPARTAMENTO:
Bernardo Sayão Penna e Souza (bernardosps@yahoo.com.br)

COORDENADOR:
Cássio Arthur Wollmann (cassio_geo@yahoo.com.br)

DOCENTE PERMANENTE: Adriano Severo Figueiró, André Weissheimer de Borba, Andrea Valli Nummer, Átila Augusto Stock da Rosa, Bernardo Sayão Penna e Souza, Benhur Pinós da Costa, Carlos Alberto da F. Pires, Carmen Rejane F. Wizniewsky, Cássio Arthur Wollmann, Cesar de David, Edgardo Ramos Medeiros, Eduardo Schiavone Cardoso, Eliane Maria Foleto, Gilda Maria Cabral Benaduce, José Luiz Silvério da Silva, Lauro Cesar Figueiredo, Lilian Hahn Mariano da Rocha, Luis Eduardo de Souza Robaina, Mauro Kumpfer Werlang, Meri Lourdes Bezzi, Rivaldo Mauro de Faria, Roberto Cassol, Romário Trentin, Sandra Ana Bolfe, Waterloo Pereira Filho.

UNIVERSIDADE FEDERAL DE UBERLÂNDIA

FACULDADE DE CIÊNCIAS INTEGRADAS DO PONTAL
FUNDADO: 1969
PROGRAMAS: Bacharelado, Licenciatura
URL PROGRAMA ON-LINE: http://www.facip.ufu.br/geografia
CONTATO PROGRAMA DE BACHARELADO: Gerusa Gonçalves Moura, cocgeo@pontal.ufu.br
SITE DA INTERNET: http://www.facip.ufu.br/geografia

CONTATO PARA MAIS INFORMAÇÕES: Gerusa Gonçalves Moura, Coodernadora do Curso, Ituiutaba, Minas Gerais, Brasil, Telefone: (34) 3271-5248, Fax: (34) 3271-5249, cocgeo@pontal.ufu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O curso de Geografia da Faculdade de Ciências Integradas do Pontal - FACIP/UFU parte do princípio da indissociabilidade entre ensino, pesquisa e extensão, além da necessidade de articulação entre bacharelado e licenciatura. Portanto, apresenta uma estrutura curricular única que visa a preparação simultânea de licenciados e bacharéis, partindo de três núcleos de formação: 1. Núcleo de Formação Específica (constituído por conhecimentos da Ciência Geográfica); 2. Núcleo de Formação Pedagógica (constituído pelos conhecimentos teórico-práticos da área de educação e de ensino); 3. Núcleo de Formação Acadêmico-Científico-Cultural (engloba as atividades acadêmicas complementares e o Trabalho de Conclusão de Curso, que pode ser uma monografia ou um relatório de estágio profissional). Sendo assim, o curso se baseia em linhas de pesquisa que estão relacionadas com os três núcleos de formação da estrutura curricular, citados acima. Essas linhas de pesquisa são: a) Gestão socioambiental em bacias hidrográficas; b) Planejamento e desenvolvimento regional; c) Ensino de Geografia: desenvolvimento de metodologias e práticas educativas. No que se refere às instações, o curso conta com infraestrutura de salas de aula, auditórios e laboratórios para o desenvolvimento das atividades teóricas e práticas, além da possibilidade de realização de viagens de campo. Merecem destaque o Laboratório de Geografia Humana e Ensino; o Laboratório de Geotecnologias; e o Núcleo de Análises Ambientais em Geociências. Essas características do programa e das instalações fornecem subsídios para que os profissionais formados neste curso sejam aptos a: I) analisar as configurações socioespaciais; II) diagnosticar e propor alternativas levando em conta a relação teoria prática; III) elaborar e executar projetos de pesquisas no âmbito da Geografia; IV) tratar o ensino, a pesquisa e a extensão como elementos indissociáveis, de modo que estes possam compor a prática dos profissionais em Geografia; V) desenvolver investigações científicas sobre os aspectos socioeconômicos, políticos e socioambientais, e os processos deles resultantes; VI) habilitar profissionais para o exercício do magistério de Geografia nas séries iniciais/finais do Ensino Fundamental (e/ou) do Ensino Médio em instituições públicas ou privadas de ensino e em todo o território nacional; VII) compreender, de forma ampla e consciente, o processo educativo, considerando as características das diferentes realidades e níveis de especialidade em que se processam.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O curso de Geografia da Faculdade de Ciências Integradas do Pontal - FACIP/UFU, que integra as modalidades licenciatura e bacharelado, tem duração de 10 semestres, com carga horária mínima de 3320 horas, sendo: 2040 horas dedicadas para o Núcleo de Formação Específica em Geografia; 1080 horas para o Núcleo de Formação Pedagógica; e mais 200 horas referentes ao Núcleo de Formação Acadêmica-científico-cultural. A estrutura curricular do curso apresenta um conjunto de disciplinas que garantem uma formação balanceada entre os aspectos sociais e ambientais por meio de atividades teóricas e práticas. Cabe ressaltar ainda que ao longo do curso o aluno pode cursar disciplinas optativas e participar de atividades de campo. No que se refere aos requisitos para admissão, o candidato deve ser aprovado no processo seletivo da Universidade Federal de Uberlândia, baseado no Sistema de Seleção Unificada - Sisu, disponibilizando anualmente 26 vagas para o período matutino e 30 vagas para o período noturno. Em relação ao financiamento, existem vários projetos em desenvolvimento com apoio da própria universidade, além de outros órgãos de fomento como a Fundação de Amparo à Pesquisa de Minas Gerais - FAPEMIG, o Conselho Nacional de Desenvolvimento Científico e Tecnológico - CNPq, a Coodenação de Aperfeiçoamento de Pessoal de Nível Superior - CAPES, Ministério da Educação - MEC, entre outros.

PROFESSORES:
Anderson Pereira Portuguez — Geografia Humana; Turismo; Desenvolvimento
Antônio de Oliveira Júnior — Planejamento Urbano; Planejamento e Gestão do Território; Sistemas de Infraestrutura do Território
Carlos Roberto dos Anjos Candeiro — Geociências; Paleontologia Estratigráfica; Geografia Física; Paleozoologia

Carlos Roberto Loboda — Geografia Urbana, Espaços Públicos, Áreas Verdes Públicas Urbanas, Geografia Econômica; Ensino de Geografia

Gerusa Gonçalves Moura — Ensino de Geografia, Geografia Urbana, Representações Cartográficas, Representações e Imagens

Gilnei Machado — Climatologia Geográfica; Hidrogeografia; Geoecologia; Geomorfologia; Ensino-Aprendizagem

Hélio Carlos Miranda de Oliveira — Geografia Urbana, Cidade Média, Relação Cidade-Campo, Rede Urbana, Metodologia científica, Educação a distancia

Joelma Cristina dos Santos – Geografia Econômica, Geografia Agrária, Geografia do Trabalho, relação capital x trabalho, mundo do trabalho, relação cidade-campo, agroindústria canavieira

Jussara dos Santos Rosendo — Sensoriamento Remoto, Sistemas de Informação Geográfica, Cartografia, Geoprocessamento, Monitoramento de bacias hidrográficas, Uso da terra, Estoque de Carbono nos solos

Kátia Gisele de Oliveira Pereira — Geociências, Geomorfologia, Climatologia, Gestão de bacias hidrográficas, Meio ambiente e cidadania

Maria Beatriz Junqueira Bernardes — Educação ambiental; Ensino de geografía

Nágela Aparecida de Melo — Geografia urbana; Cidade; Campo; Cidade Média; Pequena Cidade

Patrícia Francisca de Matos — Geografia agrária, Modernização da agricultura, Cerrado, Reforma agrária, Movimentos sociais

Rildo Aparecido Costa — Geociências, Geografia Física, Uso e Apropriação do meio físico, Biogeografia, Geomorfologia, Análise de bacias hidrográficas, Planejamento e Gestão Ambiental

Roberto Barboza Castanho — Geoprocessamento, Cartografia, Sistema de Informações Geográficas, Sensoriamento Remoto, Fotointerpretação

Saul Moreira Silva — Geografia física, Geomorfologia, Levantamento e classificação dos solos, Pedologia, Ensino solos

Sérgio Gonçalves — Geografia Humana, Movimento dos Trabalhadores Sem Terra, Desenvolvimento rural, Assentamentos rurais, Geografia agrária e Planejamento regional

Vitor Koiti Miyazaki — Geografia Urbana, Cidade Média, Rede Urbana, Aglomeração urbana, Morfologia urbana

UNIVERSIDAD FEDERAL DO CEARÁ

DEPARTAMENTO DE GEOGRAFIA
FUNDADO: 19 de novembro de 1954
PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura
URL PROGRAMA ON-LINE: http://www.posgeografia.ufc.br/
CONTATO PROGRAMA DE BACHARELADO: geograf@ufc.br
BACHARELADOS OUTORGADO ANUALMENTE: 50
CONTATO PROGRAMA DE POS GRADUACAO: posgeog@ufc.br
POS GRADUACAO OUTORGADO ANUALMENTE: 20
CENTROS DE PESQUISA: Centro de Ciências
SITE DA INTERNET: http://www.geografia.ufc.br/portal/

CONTATO PARA MAIS INFORMAÇÕES: Dr. Alexsandra Bezerra da Rocha, Fortaleza, Ceará/CE, Brasil, Telefone: (85) 33660000, alexsandrarocha@hotmail.com

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso tem como objetivo formar um profissional de Geografia, seja o licenciado, seja o bacharel apto para exercer com eficácia e competência suas funções:- Propiciar meios e instrumentos para o bacharel realizar reconhecimentos, levantamentos, estudos e pesquisas de caráter físico-geográfico, antropogeográfico e geoeconômico no campo específico da Geografia;- Considerando a Geografia como uma Ciência Social que estuda a sociedade através do espaço, o educando deverá ser capaz de analisar, interpretar e pensar criticamente a realidade próxima, tendo em vista sua transformação e contradições espaciais como reflexos das relações sociais.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O Curso de Geografia ocupa e funciona em edifício de qualidade, no bloco 911, do Campus do Pici da UFC, na área do Centro de Ciências. Este dado é importante, pois provoca constantes encontros, bem como, facilita o contato com profissionais e pesquisadores de outras áreas do conhecimento de vários setores da Universidade. Em várias ocasiões, participamos de reuniões com esses profissionais. No Departamento de Geografia, desenvolvemos as atividades em vários laboratórios e gabinetes que facilitam as condições de trabalho. O Curso de Geografia foi criado em 1963, e tem prestado significativa contribuição ao desenvolvimento cearense, com a formação de pessoal especializado em diversas áreas. Mantém cursos regulares de Licenciatura e Bacharelado. Em 1995, iniciou o curso de Mestrado em "Desenvolvimento e Meio Ambiente" em conjunto com os Departamentos de Biologia, Economia Agrícola e Geologia. Em 2005, iniciou mais um curso de pós-graduação, o Curso de Mestrado em Geografia. Em 2009, iniciou o Curso de Doutorado em Geografia. Possui instalações apropriadas ao desenvolvimento de várias atividades de Ensino, Pesquisa e Extensão: salas especiais de projeção, auditório acústico e climatizado e salas de aula climatizadas. É equipado com 9 (nove) Laboratórios especializados. O Departamento de Geografia tem mantido CONVÊNIOS com organizações nacionais e internacionais, que têm contribuído para o desenvolvimento de pesquisas em seus laboratórios. Dentre esses destacam-se: PROJETO STATUS Fundação Nacional do Meio Ambiente - Diagnóstico Sócio-Ambiental e da qualidade de vida dos Tremembé de Amofala - Itarema - CE. Concluído ALFA - América Latina - Formação Acadêmica (Comunidade Européia e várias universidades). Concluído Projeto WAVES - UFC / Governo alemão. Concluído CAPES/COFECUB - Departamento de Geografia - Instituto Francês de Urbanismo (Université de Paris 8) - 1995 - 1999. SUDENE - Delimitação e Regionalização do Nordeste Semi-Árido. PETROBRÁS/FIEC - Abastecimento de gás natural para as indústrias de Fortaleza. METROFOR - Trem Metropolitano de Fortaleza. IPLANCE - ÁRIDAS. Prefeitura Municipal de Icapuí - Diagnóstico Sócio-Ambiental. FBFF/FASE/Arquidiocese de Fortaleza: Problemas e Soluções. Arquidiocese de Fortaleza: Delimitação e Mapeamento das Áreas de Índios Tapebas da Região Metropolitana de Fortaleza. CNBB - 2a. Semana Social Brasileira e Ante-Projeto de Lei de Saneamento Básico. URCA - Curso de Especialização.

UNIVERSIDADE FEDERAL DO MARANHÃO

DEPARTAMENTO DE GEOCIÊNCIAS
FUNDADO: 28/07/56
PROGRAMAS: Bacharelado, Licenciatura
SITE DA INTERNET: http://www.ufma.br/paginas/pagina_cursos.php?cod=4

CONTATO PARA MAIS INFORMAÇÕES: Juarez Soares Diniz, Chefe de Departamento, São Luís, Maranhão, Brasil, Telefone: 98 3301-8330, Fax: 98 3301-8329, juarezsd@yahoo.com.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O profissional da Geografia deve conhecer a natureza através do estudo dos aspectos que interferem na vida e na organização espacial das sociedades e em suas inter-relações. Deve, ainda, estudar os aspectos estruturais da sociedade e as formas como essa sociedade se apropria da natureza. O Bacharel em Geografia poderá exercer, com registro no CREA, atividades de pesquisa, planejamento regional e ambiental, contribuindo para solucionar problemas de organização do espaço nos seus diferentes enfoques. O Licenciado em Geografia está habilitado ao exercício do magistério, fundamental e médio, podendo também atuar no ensino de disciplinas não-instrumentais em cursos superiores de Geografia e afins. Poderá exercer cargos administrativos e/ou integrar equipes de projetos. Seus campos de atuação estão nas diversas instituições de estudo, pesquisa e ensino das áreas das Geociências e Ciências Humanas, especificamente Órgãos públicos e privados de estudos, planos e projetos ambientais (EIAs/RIMAs), Centros de pesquisas espaciais e afins, Órgãos de planejamento regional e similares, Empresas de produção cartográfica convencional, Políticas urbanas/agrárias, Ensino público ou privado, Políticas educacionais, Geoestatísticas.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Para ingressar no curso de Geografia (Bac-Lic) o candidato deve ter concluído o ensino médio e prestar o Exame Nacional do Ensino Médio - ENEM, e estar classificado entre os 48 primeiros lugares. Para integralização do curso na modalidade bacharelado o estudante deve cumprir 112 créditos das disciplinas do Núcleo de Fundamentação Humanística, 16 créditos do Núcleo de Fundamentação Teórico-Complementar, 6 do Núcleo de Estágio Curricular e 14 créditos do Núcleo de Atividades complementares. Na modalidade licenciatura deve cumprir ainda 22 créditos do Núcleo de Formação Pedagógica e 29 do Núcleo das Práticas Pedagógicas e Estágio Curricular

UNIVERSIDADE FEDERAL DO PIAUÍ

FUNDAÇÃO: 1968
SITE: www.ufpi.edu.br

FOR MORE INFORMATION CONTACT: Luiz de Sousa Santos Júnior, Reitor, Campus Universitário Ministro Petrônio Portella - Bairro Ininga - Teresina - PI CEP: 64049-550, Telefone: (86)3215-5525, Fax: (86)3215-5526, comunicação@ufpi.edu.br

ESTRUCTURA E ORGANIZAÇÃO: A UFPI é uma instituição de educação superior, mantida pela Fundação Universidade Federal do Piauí – FUFPI (criada pela Lei nº 5.528, de 12.11.68), que goza de autonomia didático-científica, administrativa e de gestão financeira e patrimonial, sediada em Teresina, Estado do Piauí, e que mantém outras Unidades Acadêmicas no interior do Estado. Seus objetivos são: cultivar o saber em todos os campos do conhecimento puro e aplicado, de forma a: a) estimular a criação cultural e o desenvolvimento do espírito cientifica e do pensamento reflexivo; b) formar diplomados nas diferentes áreas do conhecimento, aptos para inserção em setores profissionais e para a participação no desenvolvimento da sociedade brasileira, e colaborar na sua formação contínua; c) incentivar o trabalho de pesquisa e investigação científica, visando o desenvolvimento da ciência e da tecnologia e da criação e difusão da cultura, e, desse modo, desenvolver o entendimento e do meio em que vive; d) promover a divulgação de conhecimentos culturais, científicos e técnicos que constituem patrimônio da humanidade e comunicar o saber através do ensino, de publicação ou de outras formas de comunicação; e) suscitar o desejo permanente de aperfeiçoamento cultural e profissional e possibilitar a correspondente concretização, integrando os conhecimentos que vão sendo adquiridos numa estrutura intelectual sistematizadora do conhecimento de cada geração; f) estimular o conhecimento dos problemas do mundo presente, em particular os nacionais e regionais, prestar serviços especializados à comunidade e estabelecer com esta uma relação de reciprocidade; g) promover extensão, aberta à participação da população, visando à difusão das conquistas e benefícios resultantes da criação cultural e da pesquisa científica e tecnológica geradas na instituição. A administração da UFPI é realizada nos planos de deliberação e execução, em nível superior e em nível setorial. A deliberação é realizada pelos Conselhos Superiores, que são: 1) Conselho de Administração (CAD), 2) Conselho de Ensino, Pesquisa e Extensão (CEPEX); e, 3) Conselho Universitário (CONSUN).

PROPOSITO DE ORGANIZAÇÃO: Estabelecimento de políticas de ensino, pesquisa e extensão que assegurem níveis crescentes solidez e legitimidade; Defesa de um sistema de educação superior sólido, diversificado, com padrões crescentes de qualidade, atendidos os requisitos de infra-estrutura e recursos humanos, para possibilitar a sua permanente afirmação como instituição geradora e promotora do conhecimento; Gratuidade de ensino, entendida como a não cobrança de anuidades, taxas ou mensalidades nos cursos/programas de Graduação, de Mestrado e de Doutorado; Defesa permanente da autonomia universitária; Interação continuada com a sociedade; Integração e interação com os demais níveis e graus de ensino; Consolidação crescente dos programas voltados para a inserção nacional e internacional; Apoio ao desenvolvimento de políticas públicas voltadas para a busca de sociedades não discriminatórias, mais igualitárias e mais justas; Gestão racional, transparente e democrática do orçamento e do cotidiano da Universidade; Aperfeiçoamento de um modelo de gestão descentralizada, priorizando a estrutura colegiada e em permanente diálogo com todas as instâncias que compõem a comunidade universitária; Respeito à diversidade das forças que constituem a Universidade, fonte de sua maior riqueza, incluindo-se aí todo o seu corpo social (segmento segmentos docente, discente e de funcionários técnicos e administrativos), assegurando-se a pluralidade de idéias no contexto dos diferentes perfis de atuação.

UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

DEPARTAMENTO DE GEOGRAFIA
FUNDADO: 1935
PROGRAMAS: Bacharelado, Licenciatura, Mestrado e Doutorado
BACHARELADOS OUTORGADOS ANUALMENTE: 35
LICENCIATURAS OUTORGADAS ANUALMENTE: 40
POS-GRADUACÔES OUTORGADAS ANUALMENTE: 25
SITE DA INTERNET: www.geografia.ufrj.br

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. William Ribeiro da Silva, Chefe de Departamento, e Prof. Dr. Scott Hoeffle, Coordenador da Pós-Graduação, Email: ppgg.geografia@ppgg.igeo.ufrj.br, Telefone: +55 21 2590-9534, Fax: +55 21 2590-1880. Av. Athos da Silveira Ramos, 274. Prédio do CCMN, Bloco I, Sala 25. CEP 21941-916 - Cidade Universitária. Rio de Janeiro, RJ, Brasil

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:
O Departamento de Geografia é um centro de excelência em ensino e pesquisa geográfica no Brasil. O Departamento oferece cursos de graduação - licenciatura e bacharelado e o Programa de Pós-graduação mestrado e doutorado, além de cursos de extensão de curta duração. Possui 16 laboratórios, núcleos e grupos de pesquisa onde seus professores desenvolvem trabalhos juntamente com os alunos, nas seguintes linhas de pesquisa: Cultura, Informação e

Cidadania; Ambiente e Território; Espaço e Dinâmicas Urbano-Regionais; Geopolítica e Territorialidade; Dinâmica Hidro Climática; Geoprocessamento; Interações Geoecológicas e Biodiversidade; Processos Geomorfológicos, Evolução da Paisagem e Ensino de Geografia. Integra o Instituto de Geociências (IGEO), que por sua vez faz parte do Centro de Ciências da Matemática e da Natureza (CCMN).

PROFESSORES:
Ana Luiza Coelho Netto — Geomorfologia, hidrologia e geoecologia
Ana Maria de Lima Daou — Geografia e História
Ana Maria de Souza Melo Bicalho — Geografia Agrária
Andre de Souza Avelar — Hidrologia
Antonio José Teixeira Guerra — Geomorfologia
Antonio Paulo de Faria — Geomorfologia
Carla Bernadete Cruz Madureira — Sensoriamento Remoto
Claudio Egler — Geografia Econômica e Geografia Regional
Dieter Muehe — Geomorfologia Costeira
Eduardo José Pereira Maia — Ensino de Geografia
Elizabeth Feitosa da Rocha de Souza — Sensoriamento Remoto
Eve-Anne Buhler — Geografia Econômica e Geografia Agrária
Flavia Lins de Barros — Geomorfologia Costeira
Frédéric Monié — Geografia dos transportes, Geografia economica e Geografia Regional
Gisela Aquino Pires do Rio — Geografia Econômica e regional
Gislene Aparecida dos Santos — Geografia da População
Iná Elias de Castro — Geografia Política
Jorge Xavier da Silva — Geoprocessamento
Josilda Moura — Geomorfologia
Julia Adão Bernardes — Geografia Agrária
Leticia Parente Ribeiro — História do Pensamento Geográfico e Geografia política
Lia Osorio Machado — Geografia Política e História do Pensamento Geográfico
Manoel do Couto Fernandes — Cartografia e geoecologia
Marcelo Lopes de Souza — Desenvolvimento Sócio-Espacial e Estudos Urbanos
Maria Célia Nunes Coelho — Geografia Humana
Maria Naíse de Oliveira Peixoto — Geomorfologia e educação ambiental
Monica dos Santos Marçal — Geomorfologia Fluvial
Nelson Ferreira Fernandes — Pedologia, hdrologia e geomorfologia
Olga Becker — Geografia da População
Paulo Cesar da Costa Gomes — Teoria da Geografia
Paulo Marcio Leal Menezes — Cartografia
Paulo Pereira de Gusmão — Políticas Públicas e Meio Ambiente
Rafael Silva Barros — Sensoriamento Remoto
Rafael Winter Ribeiro — Geografia Política e Patrimônio
Rebeca Steiman — Geografia Política e Geografia Regional
Ricardo Gonçalves Cesar — Biogeografia e
Roberto Lobato Corrêa — Geografia Urbana e Geografia Cultural
Scott Hoefle — Ecologia Política e Geografia Cultural
Telma Mendes da Silva — Geomorfologia
William Ribeiro da Silva — Geografia Urbana.

UNIVERSIDADE LUTERANA DO BRASIL

CURSO DE GEOGRAFIA
FUNDADO: 16/08/1972
PROGRAMAS: Licenciatura
URL PROGRAMA ON-LINE: Matriz Curricular Licenciatura - http://www.ulbra.br/geografia/files/matriz-curricular-geografia-licenciatura.pdf Ementas Licenciatura - http://www.ulbra.br/geografia/files/ementa-geografia-licenciatura.pdf Pós-Graduação - http://200.196.73.100/modulos/principal/_curso_site.php?id=95
CONTATO PROGRAMA DE POS GRADUACAO: Rafael Lacerda Martins, dirgeografia@ulbra.br
POS GRADUACAO OUTORGADO ANUALMENTE: 10
SITE DA INTERNET: http://www.ulbra.br/geografia/

CONTATO PARA MAIS INFORMAÇÕES: Dakir Larara Machado da Silva, Coordenado de Atividades, Canoas, Rio Grande do Sul, Brasil, Telefone: +55 51 3477.9101, Fax: +55 51 3477.1313, dirgeografia@ulbra.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O projeto pedagógico do curso consiste em proporcionar uma formação profissional a todos que buscam formas para conquistar os novos desafios sociais. Nesta perspectiva, o curso atua como centro de um estudo que promove atividades de ensino articuladas com pesquisa e extensão, a formação de profissionais voltados ao diálogo entre as culturas e a inserção efetiva em seu espaço. Este projeto está inserido no atual contexto do meio técnico-científico-informacional, caracterizado pela pós-modernidade, pela globalização da economia e da comunicação, pelo pluralismo político e pela emergência do poder local que está ancorado na autonomia pedagógica e na sua singularidade regional/global. Seu planejamento está em contínuo processo de construção, de forma a adequar as diferentes realidades e planos de estudo. O projeto pedagógico tem uma função articuladora, identificadora, retroalimentadora e ética. E, finalmente, uma função política, enquanto coloca o exercício da educação como algo comprometido com a qualidade de vida da sociedade, seja pela prática profissional, seja pelo exercício consciente da cidadania. O curso de Geografia, fundamentado na missão institucional procura compreender o espaço geográfico de forma dinâmica e totalizante nas suas contradições e desigualdades socioespaciais, visando o conhecimento dialético permanente entre a teoria e a prática. O curso oferece laboratórios que buscam realizar atividades práticas importantes no ensino e aprendizagem, evidenciado por diferentes disciplinas. Nos laboratórios são desenvolvidas atividades de pesquisa, junto aos professores-pesquisadores, contribuindo em metodologias do curso e áreas afins, além de atividades de desenvolvimento teórico-metodológico na área de cartografia e geoprocessamento e de ensino em Geografia. As atividades listadas a seguir dimensionam o trabalho prático e o referencial teórico incorporado no âmbito da estrutura do curso. Pode-se citar como exemplos a elaboração de mapas temáticos com contextos nas áreas ambiental e territorial; elaboração e construção de métodos de representação cartográfica, junto a pesquisadores e alunos do curso de Geografia; auxílio na elaboração de maquetes; preparação de materiais para saída de campo, como cartas imagem e topográficas e empréstimo de aparelhos de GPS; elaboração e edição de pôster (painel) referentes aos diferentes projetos de pesquisa e atividades de disciplinas desenvolvidos no curso de Geografia para divulgação em eventos científicos; procedimentos de elaboração de dados espaciais, como a digitalização de informações cartográficas e edição de informações geográficas para uso na análise, recursos didáticos e no

trabalho das disciplinas do curso. Cabe salientar que os laboratórios de informática e geoprocessamento contam com o uso computacional, através de diferentes softwares específicos para a cartografia digital, sendo um excelente meio e uma inovadora ferramenta de trabalho para a representação cartográfica e análise geográfica.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O curso de licenciatura em Geografia tem a duração mínima de sete semestres, devendo ser integralizado com uma carga horária total de 2.852 horas/aula. A matrícula no curso é efetivada por disciplina, observadas as compatibilidades de horários e limites mínimos e máximos de créditos estabelecidos, conforme calendário escolar dos demais cursos da Universidade. A conclusão do currículo pleno, tal como reconhecido pelo MEC (Ministério da Ecucação e Cultura), habilita o acadêmico à obtenção do diploma de licenciado em Geografia.

PROFESSORES:

Dakir Larara Machado Da Silva, Bacharel em Geografia pela UFRGS, Doutor em Geografia/UFRGS, Currículo Lattes: http://lattes.cnpq.br/9920745735869437

Heloisa Gaudie Ley Lindau, Licenciada e bacharel em Geografia pela UFRGS, Doutora em Geografia/UFRGS, Currículo Lattes: http://lattes.cnpq.br/5285221106348139

Jussara Alves Pinheiro Sommer, Licenciada em Geografia pela ULBRA, Mestre em Geografia/UFRGS, Currículo Lattes: http://lattes.cnpq.br/4342692596958448

Rafael Lacerda Martins, Bacharel em Geografia pela UFRGS, Mestre em Geografia/UFRGS, Currículo Lattes: http://lattes.cnpq.br/7154902396000406

Walter Otmar Steyer Geógrafo formado pela USP, Mestre em História pela Unisinos, Currículo Lattes: http://lattes.cnpq.br/9310592827019046

Paulo Cesar Pereira das Neves, Possui graduação em Geologia pela Universidade do Vale do Rio dos Sinos (1986), mestrado em Geociências pela Universidade Federal do Rio Grande do Sul (1992), e doutorado em Geociências pela Universidade Federal do Rio Grande do Sul (1998)

UNIVERSIDADE REGIONAL DO CARIRI (URCA)

DEPARTAMENTO DE GEOCIENCIAS
DATA FOUNDED: March 3rd, 1964
DEGREE OFFERED: Licenciatura (geography education)
GRANTED: average of 30 "licenciados" per semester
STUDENTS IN RESIDENCE: about 600 (80 new students per semester)
CHAIR: João Ludgero Sobreira Neto (Chefe do Departamento)
DEPARTMENT ADMINISTRATIVE ASSISTANT: Tarcisia Pajeu

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Departamento de Geociencias, Universidade Regional do Cariri (URCA), Rua Coronel Antonio Luis 1161, 63105-000 Crato, CE, Brazil. Tel. 0055-88-3102.1212 extension 2786, e-mail: geocrato@yahoo.com.br; university website: http://www.urca.br; main publication: Cadernos de Cultura e Ciencia (http://cadernos.urca.br).

PROGRAMS AND RESEARCH FACILITIES: The Cariri region is a hotspot for research in popular culture, art and religion and can be considered one of the most important paleontological sites in the world due to the extraordinary quality of the fossils found in the Mesozoic limestone layers. For this reason, the faculty maintains close contacts with neighboring departments such as biology, history and social sciences, and is looking forward to establishing international research projects. Program objectives within the department include (1) the study of erosion processes and soil preservation, (2) regional studies, (3) geographic education. Areas of special strength are a)geomorphology, b)environmental zoning, c) geology, d)hydrology, e)geographic education, f)urban violence g)cartography, h) cultural geography, i)cinema and visual culture, j)human-environment interaction, k)landless movement and agrarian reform.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system (spring and fall only). Admission Requirements: Secondary School Certificate; written admission exam (vestibular) about general and specific knowledge twice a year.

FACULTY:

Alexsandra de Oliveira Magalhaes, MSc in Geography, Fortaleza (UFC), 2006, Assistant Professor — environmental zoning, geoecology, biodynamics

Ana Roberta Duarte Pianco, MSc in Geography, Recife (UFPE), 1998, Assistant Professor — agricultural geography, agrarian reform, landless movement (MST), geography teaching

Antônia Carlos da Silva, MSc in Geography, Fortaleza (UECE), 2000, Assistant Professor — geographic education

Emerson Ribeiro, PhD in Geography, São Paulo (USP), 2013, Assistant Professor — geographic education, artistic installations, teacher training

Firmiana Santos Fonseca Siebra, MSc in Regional Development, Crato (URCA), 2002, Assistant Professor — urban geography, regional geography, economic geography

Francisco das Chagas Sousa da Costa, MSc in Geochemistry, Salvador (UFBA), 1999, Associate Professor — geomorphology and environment, ecological zoning

Francisco Marcelo Bezerra de Almeida, Specialist in Geography, Crato (URCA) — Geographic thought, population geography

Glauco Vieira Fernandes, MSc in Geography, Fortaleza (UECE), 2001, Associate Professor — geography teaching; geography and cinema, visual methods

Ivan da Silva Queiroz, PhD in Urban Planning, Recife (UFPE), 2013, Associate Professor — urban geography, urban violence

João Cesar Abreu de Oliveira, PhD in Education, Fortaleza (UFC), 2008, Associate Professor — agricultural geography, social movements, urban environments

João Ludgero Sobreira Neto, Specialist in geopolitics and environmental law; Assistant Professor — agricultural geography, population geography, environmental geography

Jörn Seemann, PhD in Geography, Louisiana State University, 2010, Associate Professor — cultural geography, maps and society, culture history, history of cartographic and geographic thought, cartographic education

Josier Ferreira da Silva, PhD in Brazilian Education, Fortaleza (UFC), 2009, Associate Professor — territorial formation, geographical and historical processes, history of education, human-environment interaction

Juliana Maria Oliveira Silva, PhD in Geography, Fortaleza (UFC), 2013 — climatology; hidrology; watershed management.

Lireida Maria Albuquerque Bezerra, MSc in Geography, Fortaleza (UFC), 2013, Assistant Professor — urban geography, environmental geography

Maria de Lourdes Carvalho Neto, Msc in Geography, Fortaleza (UFC), 2007, Assistant Professor — environmental geography, geomorphology, GIS

Maria Soares da Cunha, MSc in Geography, Recife (UFPE), 1998, AssociateProfessor — agricultural geography, geography teaching, regional geography

Ricardo Mota Bacurau, Specialist, Fortaleza (UFC), Associate Professor — industrial geography, regional development

Rogerio Wayne Noronha, Specialist, Fortaleza (UFC), Associate Professor — climatology

Simone Cardoso Ribeiro, PhD in Geographjy, Rio de Janeiro (UFRJ), 2012, Associate Professor — ethnogeomorphology, environmental analysis, erosion processes and conservation, applied geomorphology and soil science

EMERITUS FACULTY:

Alvimir Alves de Oliveira, PhD in Geology, Recife (UFPE), 2006, Associate Professor — geology

Edith Oliveira de Menezes, MSc in Geography, São Paulo (USP), 1998 — urban geography

UNIVERSIDADE REGIONAL DO NOROESTE DO ESTADO DO RIO GRANDE DO SUL

DEPARTAMENTO DE HUMANIDADES E EDUCAÇÃO
FUNDADO: 16/03/1956
PROGRAMAS: Licenciatura, Licenciatura (à Distância/Virtuais)
URL PROGRAMA ON-LINE: http://www1.unijui.edu.br/cursos/graduacao/ead-ensino-a-distancia/geografia-ead-licenciatura
SITE DA INTERNET: www.unijui.edu.br

CONTATO PARA MAIS INFORMAÇÕES: MARIO AMARILDO ATTUATI, COORDENADOR DO CURSO DE GEOGRAFIA, ESTADO DO RIO GRANDE DO SUL, BRASIL, Telefone: 55 3332 0200, Fax: 55 3332 0256, attuati@unijui.edu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: A UNIJUI matém programas e projetos de pesquisa e extensão por meio dos quais desenvolve intensa interação com a comunidade regional. A Geografia está alocada no Departamento de Humanidades e Educação, que conjuntamente com outras áreas do conhecimento desenvolve ações nas áreas de planejamento urbano, meio ambiente e formação continuada de professores paa a Educação Básica. Estas atividades são organizadas e executadas com o apoio da estrutura da Universidade e mais especificamente dos laboratórios de Geoprocessamento e Análise Territorial, Recursos Hídricos e Ensino de Ciências Sociais. O curso de Geogafia - licenciaturfa plena atualmente é oferecido na modalidade de educação à distância (EaD). Os alunos tem acesso a material impresso e recebem atendimento via ambiente virtual "CONECTA - UNIJUI". Demais informações podem ser obtidas através do site www.unijui.edu.br

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: OBJETIVO: o curso de Geografia - licenciatura, pretende formar profissionais para atuar na educação básica, no componente curricular específico – Geografia, com formação intelectual adequada à contribuição que a geografia pode dar para o conhecimento e interpretação do mundo, no sentido de formar cidadãos que tenham uma visão da realidade capaz de os situar na dinâmica atual e perceber os caminhos possíveis para tornar o mundo mais justo e humano. ORGANIZAÇÃO CURRICULAR: para concretizar a proposta político-pedagógica organizou-se uma estrutura curricular e uma seqüência semestral das atividades acadêmicas, bem como parâmetros para o processo ensino-aprendizagem, tendo em vista o perfil do profissional da Geografia formado pela UNIJUÍ. Estabeleceu-se a participação das diversas áreas na formação do profissional da Geografia, os eixos de interseção das mesmas com a ciência geográfica, ao longo do curso, bem como a seqüência pedagógica recomendada. O currículo foi estruturado em nove conjuntos de componentes curriculares que traduzem a proposta político-pedagógica do curso de Geografia. Constitui-se de componentes curriculares que tratam da formação humanística e da formação acadêmico-profissionalizante, visando atender as orientações gerais presentes na proposta de Diretrizes Curriculares Nacionais previstas para a graduação em Geografia, bem como às Diretrizes Institucionais do Ensino na UNIJUÍ e de sua operacionalização nos termos das Resoluções CONSU n.º 21/2005 e 29/2005. Os componentes curriculares da formação humanística desenvolvem a reflexão sobre a condição humana e a cidadania, construindo a identidade deste programa de ensino e do acadêmico de Geografia com a Universidade. Os componentes curriculares da formação acadêmico-profissionalizante desenvolvem as "dimensões teórico-prática, técnico-científica e humanística" necessárias à formação inicial do profissional da Geografia. Estão distribuídos nos conjuntos, a saber: Fundamentos de Geociências; Fundamentos de Ciências Sociais; Instrumentalização em Geografia; Interação Profissional; Teoria, Método e Análise Geográfica; Práticas Geográficas; Formação Pedagógica e Opções Livres. Cada conjunto contempla uma parte de conteúdos essenciais para a aquisição do conhecimento geográfico, o conhecimento geográfico em si e, ainda, a educação geográfica ou o reconhecimento do mundo do trabalho. A proposta curricular prevê o atendimento de especificidades voltadas à formação de professores através de um conjunto de componentes curriculares que trata da investigação voltada para a educação geográfica. O conjunto que trata da interação profissional deve adequar-se as práticas pedagógicas necessárias ao processo de formação inicial do profissional da Geografia. OBS: sobre requisitos de admissão e ajuda financeira consultar www.unijui.edu.br

PROFESSORES:

Bernadete Maria de Azambuja — mestre em Geografia, UFSC Geografia, Urbana

Célia Clarice Atkinson — mestre em Geografia, UFSC, Geografia Urbana

Dóris Ketzer Montardo — mestre em Geologia, UFRGS, Geociências

Helena Copetti Callai — doutora em Geografia, USP, Ensino de Geografia

Leonardo Dirceu de Azambuja — doutor em Geografia, UFSC, Ensino de Geografia

Mario Amarildo Attuati — mestre em Geografia, UFSC, Geoecologia /Cartografia O corpo docente do curso conta também com a contribuição de professores das áreas de Economia, Pedagogia, História, Matemática, Sociologia e Psicologia

CHILE

PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

INSTITUTO DE GEOGRAFÍA
DEGREES OFFERED: Bachiller - Licenciatura en Geografia, Título profesional de Geógrafo, Diplomado, Magíster y Doctorado
POINT OF CONTACT: Dr. Federico Arenas, Profesor – Director, (56) 2-6864716
WEB SITE: www.geografia.uc.cl

FOR CATALOG AND FURTHER INFORMATION WRITE TO /DIRECCION INSTITUTO DE GEOGRAFIA: Av. Vicuña Mackenna 4860, Casilla 306-Correo 22, Código Postal 6904411, Comuna de Macul, Santiago, Chile.
Teléfono (56) 2-354 4716 - Fax: (56) 2-552 6028.

PROGRAMS AND RESEARCH FACILITIES: Los académicos del Instituto desarrollan una serie de proyectos de investigación, dentro de las líneas de: Ordenación territorial; evaluación y estudios

de impacto ambiental; catastro y evaluación de recursos naturales con aplicaciones específicas en el litoral; estudios de riesgos naturales y su modelación (tsunami); estudios de caracterización socioeconómica de la población; estudios del medio ambiente urbano; estudios urbanos relativos a vivienda social y gobernanza metropolitana; aprovechamiento de neblinas como recurso hidrológico; ecosistemas de niebla y educación ambiental como línea de investigación aplicada a la docencia. Además, como línea complementaria a todos los proyectos de investigación en nuestro Instituto, se destaca el uso y manejo de tecnologías geomáticas, representadas por Sistemas de Información Geográfica (SIG), Sistemas de Posicionamiento Global (GPS) y Percepción Remota. Estos proyectos son financiados por DIPUC, FONDECYT; Centre de Recherches pour le Development International (IDRC), y Supply and Services, de Canadá.

ACADEMIC PROGRAMS, ADMISSION REQUIREMENTS AND FINANCIAL AID:

Pregrado: Bachiller - Licenciatura en Geografía y título profesional de Geógrafo. El Geógrafo de la UC es un profesional especializado en el conocimiento de las interrelaciones del hombre con su medio ambiente natural, capacitado para desempeñarse en actividades de investigación, planificación, desarrollo y administración del espacio geográfico, en beneficio de la sociedad. Entre las asignaturas están: Geografía Física General, Climatología, Geomorfología Estructural, Geografía Regional del Mundo. Algunos Cursos que permiten la obtención del Título de Geógrafo son: Desarrollo Urbano, Planificación Territorial, Medio Ambiente y Desarrollo Sustentable. A partir del tercer semestre se desarrollan, además, prácticas en terreno.

Diplomado: a) Sistemas de Información Geográfica, b) Geomática y c) Reducción del Riesgo de Desastres: prevención y gestión. Programas de especialización orientados a profesionales que desean mantenerse al día en los conocimientos, habilidades y destrezas que caracterizan a su actividad o bien quieren extender su conocimiento hacia áreas complementarias, o acceder al manejo de nuevos procedimientos o tecnologías.

Magíster: Magíster en Geografía y Geomática. Los contenidos de este Magíster se sitúan en el cruce de los métodos y técnicas de las líneas de investigación del Instituto de Geografía de la UC, el uso de la geomática y problemas geográficos específicos derivados de la acción humana en la superficie terrestre. El objetivo general es conocer y aplicar métodos, técnicas y tecnologías basados en la geomática y que se utilizan en la investigación geográfica para la solución de problemas que tienen que ver con el uso del territorio, desde una visión que compatibilice las potencialidades y restricciones físico-naturales con las diversas actividades humanas.

Doctorado: tiene como objetivo formar investigadores y docentes, para desempeñarse en instituciones universitarias y equivalentes; así como profesionales de alto nivel académico y con capacidad crítica, que logren ser un aporte a la sociedad actual, tanto en el sector público como privado, a través de la investigación, comprensión y solución de problemas claves, que tengan relación con la ocupación humana sobre la superficie terrestre. Sus áreas de investigación son: Metropolización y geografía urbana, Periurbanización y geografía rural, Biogeografía, cambio climático y estudios del cuaternario, Riesgos naturales, Geomorfología y espacio litoral y Geografía histórica, espacio y territorio.

PUBLICACIONES: Revista de Geografía Norte Grande, Serie GEOlibros.

FACULTY:

ARENAS VÁSQUEZ, FEDERICO — Doctor en Ciencias Económicas y Sociales, de la Universidad de Ginebra y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Planificación urbana y regional y Ordenamiento territorial. Profesor Titular

ASTABURUAGA, JUAN PABLO — Magíster en Geografía y Geomática y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: ordenamiento territorial y Sistemas de Información Geográfica. Profesor Asistente Adjunto.

CARVACHO BART, LUIS — Doctor Universidad de Alcalá de Henares, España. Geógrafo, Licenciado en Geografía, P.U.C.Ch. Área de investigación: SIG, Geomática. Profesor Asociado.

DEL RÍO LÓPEZ, CAMILO — Magíster en Geografía y Geomática y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Percepción Remota, Geomática. Profesor Asistente Adjunto

GARCÍA, JUAN LUIS — Doctor en Ciencias de la Tierra, University of Maine, Estados Unidos, y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Cambios climáticos del Cuaternario, geomorfología y geología glacial. Profesor Asistente.

GONZÁLEZ LEIVA, JOSÉ IGNACIO — Doctor en Geografía de la Universidad de Barcelona, España. Área de investigación: Cartografía, Geografía matemática y Geografía electoral. Profesor Titular.

HENRÍQUEZ RUÍZ, CRISTIÁN — Doctor en Ciencias Ambientales (EULA) y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Impacto ambiental, planificación territorial, geomática y ecología urbana. Profesor Asociado.

HIDALGO DATTWYLER, RODRIGO — Doctor en Geografía humana con mención en Pensamiento Geográfico y Organización del Territorio de la Universidad de Barcelona, España. Área de investigación: Geografía humana, estudios sociales, urbanos y planificación territorial. Profesor Titular.

LAGOS LÓPEZ, MARCELO — Doctor en Ciencias Ambientales de la Universidad de Concepción y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía física, medio ambiente, riesgos naturales y geomática. Profesor Asociado

LAMBERT, FABRICE — Doctor en física climática de la University of Bern, Suiza. Magister en Física experimental, University of Bern, Suiza. Área de investigación: Paleoclimatología, Aerosoles, Contaminación Urbana. Profesor Asistente.

LOZANO PARRA, JAVIER — Doctor en Geografía Física por la Universidad de Extremadura (España). Máster en Sistemas de Información Geográfica y Teledetección por la Universidad de Gerona (España). Área de investigación: Ecohidrología; Hidrología; Modelización ecohidrológica; Sistemas de Información Geográfica; Geografía física. Profesor Asistente.

MARTINEZ REYES, CAROLINA — Doctora por la Universidad de Barcelona (España), Magister en Geografía por la Universidad de Chile y Geógrafo por la Universidad de Playa Ancha. Área de investigación: Evolución costera, Geomorfología y morfodinámica de ambientes costeros, Riesgos Naturales en la costa, Manejo costero. Profesor Asistente.

NARANJO RAMÍREZ, GLORIA — Magister en Asentamientos Humanos y Medio Ambiente y Geógrafo de la Pontificia Universidad Católica de Chile. Cursando Programa de Doctorado en Arquitectura y Estudios Urbanos de la Facultad de Arquitectura, Diseño y Estudios Urbanos de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía humana, rural, agraria, medio ambiente y ordenamiento territorial. Profesora Asistente.

NUÑEZ, ANDRES — Doctor en Historia de la Pontificia Universidad Católica de Chile y posdoctorado en Geografía en la misma casa de estudios. Área de investigación: Geografía Social, Geografía Cultural y Geografía Histórica .Profesor Asistente.

OSSES McINTYRE, PABLO — Magíster en Economía Agraria y Geógrafo de la Pontificia Universidad Católica de Chile. Áreas de investigación: Geografía Física, Medio Ambiente, Economía y Territorio. Profesor Asociado.

PAULSEN BILBAO, ABRAHAM — Geógrafo, Pontificia Universidad Católica de Chile. Candidato a Doctor en Territorio, Sociedad y Medioambiente de la Universidad Autónoma de Madrid (UAM).

Suficiencia investigativa en Psicología Educacional de la Universidad Autónoma de Madrid (UAM). Profesor Asistente

PLISCOFF, PATRICIO — Doctor en Ciencias de la Vida, Université de Lausanne, Suiza, Magister en Ciencias Biológicas, Universidad de Chile y Geógrafo de la Pontificia Universidad Católica de Chile. Área de Investigación: Biogeografía, Ecología, Bioclimatología, Biología de la Conservación. Profesor Asistente, Interdisciplinario (Instituto de Geografía, Facultad de Historia, Geografía y Ciencia Política, y Departamento de Ecología, Facultad de Ciencias Biológicas).

QÜENSE ABARZUA, JORGE — Geógrafo de la Pontificia Universidad Católica de Chile. Doctor en Medioambiente de la Universidad Joseph Fourier de Grenoble, Francia. Área de investigación: geomática, ordenamiento territorial, Geografía de la montaña. Profesor Asistente.

REHNER, JOHANNES — Geógrafo, doctorado (Dr. oec. publ.) de la Ludwig-Maximilians-Universität München (LMU), Alemania. Áreas de investigación: geografía económica y urbana, estudios asiáticos y geografía cultural. Profesor Asociado.

SALAZAR BURROWS, ALEJANDRO — Doctor en Ciencias Sociales del Institut National Agronomique Paris-Grignon (INA P-G), Francia y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía humana, rural, espacios periurbanos y ordenamiento territorial. Profesor Asociado.

SAGREDO, ESTEBAN — Doctor en Geología, University of Cincinnati, Estados Unidos. Magíster en Ciencias (Ecología y Biología Evolutiva), Universidad de Chile. Geógrafo, Pontificia Universidad Católica de Chile. Área de Investigación: (1) Fluctuaciones glaciales en Sudamérica desde el Ultimo Máximo Glacial; (2) Sensibilidad glacial a cambios climáticos; (3) Paleoclimatología. Profesor Asistente.

SÁNCHEZ MARTÍNEZ, MARCELA — Doctora en Filosofía y Letras, sección Geografía, Programa de Cartografía, Sistemas de Información Geográfica y Teledetección, Universidad de Alcalá de Henares, España. Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía física y geomática. Profesor Asociado.

SÁNCHEZ ACUÑA, RAFAEL — Doctor en Geografía, Universidad de Innsbruck (Austria). Geógrafo y Licenciado en Historia de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía Humana, Geografía urbana y Geografía del Turismo. Profesor Asistente.

UNIVERSIDAD ACADEMIA DE HUMANISMO CRISTIANO

DEPARTAMENTO DE GEOGRAFÍA
FECHA DE FUNDACION: 1975
PROGRAMAS DE ESTUDIO: Grado asociado/técnico, Licenciatura, Maestría
CONTACTO PARA PROGRAMA DE PREGRADO: Dra.© Macarena Barahona Jonas mbarahona@academia.cl
LICENCIATURAS OTORGADAS ANUALMENTE: 10
CENTROS DE INVESTIGACION: Programa de Investigaciones e Intervenciones Territoriales (PIIT)
SITIO WEB: www.geoacademia.cl

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Macarena Barahona Jonas, Jefa de Carrera y Directora de la Escuela de Geografía. Santiago, Chile, Telefono: 56-2-27878316, Fax: 56-2-7878213, mbarahona@academia.cl

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:
Geografía al servicio de la Transformación Social. Este proyecto aporta a la sociedad con especialistas en la comprensión e interpretación de los fenómenos espaciales, cuyo sello es el compromiso con la resolución de problemáticas sociales. Responde así, al vertiginoso desarrollo de la disciplina geográfica en distintos lugares del mundo, al ascenso del discurso espacial como una dimensión estructurante de los procesos sociales, al desarrollo desigual del territorio que que ha generado el capitalismo y al estancamiento teórico-metodológico del quehacer geográfico chileno. La carrera de Geografía se estructura sobre principios humanistas y se orienta tanto al desarrollo de profesionales de alto nivel, investigadores e interventores de los procesos de producción de espacio geográfico, como a especialistas en la reconstitución de las relaciones ser humano-medio y/o sociedad-naturaleza. Se propone un itinerario formativo que permite la rearticulación y recomposición del mundo de la vida, desde la comprensión profunda de los procesos físico-naturales y humano-sociales, con énfasis en procedimientos de investigación e intervención social. El currículum formativo dialoga con las miradas clásicas y se abre a nuevas apuestas teóricas como las críticas, postcríticas, deconstruccionistas, humanísticas, de estudios subalternos y de estudios postcoloniales, casi ausentes en la formación de geógrafos en Chile. Al mismo tiempo, la apuesta formativa se estructura sobre la base de un ingreso progresivo de nuestros estudiantes a los centros de prácticas desde el primer año, teniendo como modelo, la inclusión profesional temprana, potenciando la reflexión crítica en acción y la posibilidad de tensionar el desarrollo del conocimiento profesional del Geógrafo. En este contexto se han desarrollado tres líneas de investigación que responden a tres campos problemáticos del espacio que se intenta estudiar, comprender y transformar: 1-Existe una necesidad creciente de profundizar en los procesos físico-naturales que estructuran y dinamizan los espacios geográficos. Estos procesos van configurando y en cierta medida, moldeando las formas de organización social y cultural que los grupos humanos tienen. En este sentido, los ambientes que pueden ser considerados como "de primera naturaleza" han sido sometidos a fuertes e incesantes acciones antrópicas poniendo en jaque los precarios equilibrios físicos, químicos y biológicos y conformando situaciones de extrema fragilidad, vulnerabilidad y peligrosidad. La re-constitución de los sitios de riesgo, que deviene de un uso "poco adecuado" del territorio por parte de los grupos humanos, requiere del estudio acabado de los sistemas morfológicos, hidrográficos, biogeográficos, oceanográficos, pedológicos y climatológicos. Con ello, se ha considerado prioritario el establecimiento de una línea de investigación que pueda aglutinar los esfuerzos de académicos que intentan por variadas vías metodológicas, estudiar los distintos ambientes físicos de nuestro país y su relación con la conformación de situaciones de riesgo. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI y con colaboración de equipos nacionales e internacionales. 2-El ascenso de la diferencia, la rotura del pensamiento parametral y la incorporación de la subalternidad en los estudios sobre la ciudad y sobre el campo, han permitido dotar a la Geografía, de nuevas perspectivas de análisis en el estudio de los circuitos de vida urbano-rural. En este sentido el papel del sujeto que se proyecta en el espacio y que corporiza los procesos de acumulación y movilidad de capital, es trascendental para comprender las problemáticas sociales y las tensiones propias de la alta modernidad. En este escenario surge la posibilidad de instalar una plataforma investigacional que se ha centrado en los conflictos urbanos y rurales propios del encuentro multicultural en contexto de capitalismo tardío. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI, como de financiamiento nacional FONDECYT, con colaboración de equipos nacionales e internacionales. 3-Esta línea condensa el trabajo realizado en temáticas relacionadas con la enseñanza y el aprendizaje de la Geografía en contextos educativos diferenciados. Pone énfasis en la necesidad de indagación de los espacios educativos sobre los cuales se ejecuta la acción pedagógica y valoriza de modo especial la forma en la que el contenido espacial contribuye al encuentro de actores

educativos. En este sentido, se trabaja con perspectivas teóricas que permiten, tanto densificar el debate sobre la educación geográfica, como colocar al centro la idea de una enseñanza que transforma las condiciones materiales de existencia de los sujetos que participan del acto educativo. Se intenta develar estructuras de dominación, exclusión y subordinación, y se explora en los mecanismos de cambio e innovación que son posibles de ser pensados-y concretados, en el mundo escolar. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI, como de financiamiento nacional FONDECYT, con colaboración de equipos nacionales e internacionales. Todas estas producciones se colocan al servicio de las actividades académicas regulares que tienen impacto en la vinculación de la unidad académica con el medio. Especial importancia tiene: el Seminario de Resistencias Territoriales (con nueve versiones al año 2014), el Ciclo sobre Geografía y Debate Teórico Contemporáneo (nueve versiones al año 2014) y el Ciclo de Conferencias sobre la Naturaleza del Espacio (diez versiones al año 2014). Del mismo modo el proyecto IPES Intervención+Posibilidad+Espacio (con tres versiones al año 2014) fortalece el vínculo específico con las instituciones que participan del ingreso temprano al campo profesional de nuestros estudiantes (ONG's, Consultoras, Departamentos Ministeriales, Departamentos Municipales, Fundaciones, etc.)

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El Plan Formativo está compuesto de tres subcomponentes curriculares: Plan General Universitario (orientado al desarrollo de desempeños en la "actuación profesional CRITICA"), Plan Común de Área (orientado al desarrollo de desempeños comunes al campo de las ciencias sociales) y Plan de Especialidad (orientado al desarrollo de desempeños en las líneas de formación disciplinar: eje humano-social; eje físico-natural, eje de integración teórico-práctica). La duración del plan es de 5 años. Al cuarto año y luego de haber completado tanto la totalidad de los créditos como la defensa del Seminario de Grado, el estudiante recibe el grado de Licenciado en Geografía. Al quinto año, si completa los créditos complementarios de cursos profesionalizantes y aprueba la defensa de los resultados de su práctica, el estudiante recibe el título profesional de Geógrafo. En detalle, el perfil de egreso se estructura en torno a desempeños que se detallan a continuación: Desempeños de orden actitudinal esperados al final del proceso formativo * Propiciar la explicitación de la subjetividad espacial como mecanismo de entrada a la comprensión de los fenómenos territoriales, paisajísticos, geosistémicos, ambientales, regionales y lugarizados. * Promover la educación geográfica como pilar fundamental de la conciencia espacial de los sujetos a través de estrategias formales de enseñanza que promuevan aprendizajes situados y contextualizados de los contenidos curriculares. * Asignar relevancia a las instancias de encuentro pluridisciplinar como mecanismo de acción colectiva sobre los espacios. Desempeños de orden conceptual esperados al final del proceso formativo * Manejar contenidos conceptuales referidos al campo de la estructuración física y humana del espacio geográfico con la finalidad de ponerlos al servicio de las investigaciones e intervenciones sobre lo social. * Reflexionar sobre la producción de discurso geográfico como primera fuente de acción espacial, movilizando creencias epistemológicas que permitan la comprensión y /o explicación diagnóstica de los espacios geográficos (en sus dimensiones territoriales, paisajísticas, geosistémicas, ambientales, regionales y lugarizadas).* Construir un espacio interrelacional entre los procesos de estructuración física y los procesos de estructuración humana en perspectivas multiescalares y con la finalidad de resolver tensiones entre el mundo objetivo y el subjetivo. * Comprender cómo los procesos de integración, polarización y diferenciación de las relaciones ser humano-medio actúan como dispositivos para dotar a los espacios de una cierta localización y distribución. Desempeño de orden procedimental esperados al final del proceso formativo. * Diseñar e implementar acciones de intervención e investigación espacial que permitan movilizar contenidos, teorías y metodologías tanto del campo de las Ciencias Sociales como aquellas propiamente geográficas en situaciones de problemáticas y tensiones socio-espaciales. * Diseñar e implementar acciones tendientes a la innovación de los campos de intervención e investigación, estableciendo sinergias entre diagnósticos y estrategias ya instaladas en torno a problemáticas y tensiones socio-espaciales. * Promover la instalación del trabajo de campo como instancia de sinergia entre técnicas al servicio de la investigación y la intervención espacial.

PROFESORADO:

Irene Molina, Geógrafa y Licenciada en Geografía, Pontificia Universidad Católica de Chile. Magíster en Geografía Humana, Universidad de Uppsala, Suecia. Doctora en Geografía Humana, Universidad de Uppsala, Suecia. irene.molina@ibf.uu.se

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Raúl González, Economista, Universidad de Chile. Magíster en Desarrollo Económico, Universidad Católica de Lovaina, Bélgica. Doctor en Desarrollo Económico, Universidad Católica de Lovaina, Bélgica. ragonzalez@academia.cl

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Miguel Villa, Profesor de Estado en Historia y Geografía, Universidad de Chile. Diplomado en Planificación Urbana y Regional, Universidad de Erasmus, Holanda. Magíster en Geografía, Universidad de Minessota, Estados Unidos. Ph. D. (c) en Geografía, Universidad de Minessota, Estados Unidos. mvilla@academia.cl

Gerardo Saffer, Profesor de Física y Matemáticas y Licenciado en Educación, Pontificia Universidad Católica de Chile. Diplomado en Estudios Ambientales, Pontificia Universidad Católica de Chile. Doctorando en Educación Ambiental, Universidad Autónoma de Barcelona, España. gsaffer@academia.cl

Reinaldo Börgel, Profesor de Estado en Historia y Geografía, Educación Cívica y Economía Política, Universidad de Chile. Estudios Superiores en Geografía Física Aplicada, Universidad de Estrasburgo, Francia. rborgel@academia.cl

Rosa Zamora, Meteoróloga y Licenciada en Meteorología, Universidad de Valparaíso. Magíster en Meteorología y Climatología, Universidad de Chile. rzamora@academia.cl

Luis Arrué, Geógrafo y Licenciado en Geografía, Pontificia Universidad Católica de Chile. Magíster en Asentamientos Humanos y Medio Ambiente, Pontificia Universidad Católica de Chile. larrue@academia.cl

Carlos Quintana, Ingeniero Civil Agrícola y Licenciado en Ciencias de la Ingeniería, Universidad de Concepción. Magíster en Ingeniería Agrícola, Mención Recursos Hídricos, Universidad de Concepción.cquintana@academia.cl

Felipe Morales, Geógrafo y Licenciado en Geografía, Pontificia Universidad Católica de Chile Magíster en Desarrollo Urbano, Pontificia Universidad Católica de Chile

Rodrigo Hernán Rocha Pérez, Geógrafo y Licenciado en Geografía, Universidad de Chile Director del Departamento de Historia y Geografía, Universidad Metropolitana de Ciencias de la Educación

Alejandra Mora Soto, Geógrafa, Universidad de Chile Diplomada en Geomática Aplicada, Universidad de Chile Master en Ciencias en Monitoreo, Modelamiento y Manejo Ambiental, Universidad King's College London, Reino Unido.

Daniela Escalona, Geógrafa y Licenciada en Geografía, Pontificia Universidad Católica de Chile. Doctora (c) en Geografía, Pontificia Universidad Católica de Chile.

Francisca Pérez, Antropóloga y Licenciada en Antropología, Universidad Academia de Humanismo Cristiano. Doctora en Arquitectura y Estudios urbanos, Pontifica Universidad Católica de Chile.

Mauricio Calderón Sánchez, Ingeniero Agrónomo Universidad de Chile, Magíster en Ciencias Agropecuarias Mención en Producción de Cultivos

UNIVERSIDAD DE CHILE

FACULTAD DE ARQUITECTURA Y URBANISMO
ESCUELA DE GEOGRAFÍA
SANTIAGO DE CHILE
DATE MASTER'S DEGREE CREATED: 1984
DEGREES OFFERED: Licenciatura en Geografía. Geógrafo, Profesional
DIRECTOR ESCUELA: Dr. Fernando Pino Silva
DIRECTOR DEPARTAMENTO: MSc. Maria Victoria Soto

PROGRAMS AND RESEARCH FACILITIES: Entre 1889 y 1890, el geógrafo alemán Hans Steffen organizó la enseñanza de la Geografía en la Universidad de Chile, formando las primeras generaciones de profesores y realizando las primeras investigaciones. En esta etapa inicial, la Escuela de Steffen, formado bajo la guía del Dr. Ferdinand von Richthofen de la Universidad de Berlín, marcó el sello de la tradición alemana y de la geografía científica en Chile.

Con centro en el Instituto de Geografía y en el Departamento de Geografía del Instituto Pedagógico de la Universidad de Chile, se desarrolló un vigoroso movimiento de formación, investigación y difusión geográfica que condujo a la creación de centros de docencia e investigación en provincias, a la presencia renovadora del enfoque geográfico en los organismos públicos y de organización territorial, y a la renovación de los contenidos geográficos en la enseñanza básica y media.

Desde inicios de los 80's, la enseñanza impartida por la Escuela y por otra, la investigación en el Departamento, son armonizados con modernos métodos, incorporándose laboratorios, técnicas de teledetección y sistemas computacionales en forma progresiva.

La carrera de Geografía se consolida como tal en la Escuela de Geografía a mediados de la década de 1960, continuando en forma ininterrumpida hasta la fecha.

Grado Académico ofrecido: Licenciatura en Geografía, Magister en Geografía

Título Profesional ofrecido: Geógrafo. El programa de Magíster en Geografía, fue creado en 1984, y acreditado en 2004.

La docencia de postgrado se fundamenta ineludiblemente en la investigación científica y esta última es una actividad dinámica que se complica y enriquece permanentemente con el acceso al conocimiento universal, al ejercicio interdisciplinario y al diseño de nuevos sistemas de generación y análisis de datos e informaciones.

Pocas áreas han experimentado una ampliación tan grande como el conocimiento geográfico durante las últimas décadas, debido en especial al vertiginoso desarrollo de los sistemas de observación remota del comportamiento de la Tierra, así como a la disponibilidad de cada vez más sofisticados instrumentos para el modelamiento y predicción de escenarios futuros.

Grado Académico ofrecido: Magíster en Geografía, Mención Recursos Territoriales**,** Mención Organización Urbano Regional

UNIVERSIDAD DE LA SERENA

AREA DE CIENCIAS GEOGRAFICAS
DATE FOUNDED: 1980
GRADUATE PROGRAM FOUNDED: 1995 (Masters)
DEGREES OFFERED: Pedagogy in Geography, Masters in Geography
GRANTED: Bachelors, 260; Masters, 2
STUDENTS: Masters, 12
CHAIR: Dr. Fabián Araya Palacios
MASTER ACADEMIC PROGRAM COORDINATOR: Dr. Guido Veliz

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Guido Veliz (Graduate Program Coordinator), Area de Ciencias Geográficas, Departamento de Ciencias Sociales, Campus Andres Bello, Colina El Pino s/n. Universidad de La Serena, La Serena, Chile. Phone Number: 56-55-204337,
Fax Number: 56-55- 204314; e-mail address: gveliz@userena.cl.

PROGRAMS AND RESEARCH FACILITIES: The Area of Geographical Sciences (AGS) offers Geography Programs at Undergraduate (Pedagogy) and Graduate (Master) levels and these Programs provide training in Regional and Systematic Studies. In addition, since Geography shares almost half of its coursework with History students, interdisciplinary work is practiced with field work, adding other social sciences as well. The Department of Social Sciences, where the AGS is housed, aims to strengthening a comprehensive view of Geography, since this discipline has a strong development in regional studies, geographic information systems, environmental and territorial management, sustainable development and geography education. The AGS offers access to a computer laboratory for undergraduate students and a geographical analysis laboratory for graduate students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The AGS receives international students who take courses on a semester basis. Undergraduate students from all over Europe, Asia, Canada and the United States come to the University of La Serena and take courses such as Geography of Latin America and Globalization and World Economics. Also, graduate students visit the

AGS and take independent studies and field work for their thesis in the region. Normally, both undergraduate and graduate students attend academic activities in the AGS at ULS as part of their programs in their native universities. For this purpose, any foreign student or group of students and instructors could visit and arrange a special program in the AGS, once they have contacted the International Office at ULS. Admission requirements are based on regular programs conducted in their native countries. Financial assistance is offered to reduce cost of housing and meals.

FACULTY:

Fabian Araya, Doctoral Degree, Universidad de Cuyo, Mendoza, Argentina, 2006, Associate Professor — Geography Education, Curriculum and Assessment, Theory and Method in Geography, Pedagogy and K-12 development

Enrique Novoa, Mg. Universidad de Santiago, Chile, 1996, Associate Professor — Physical Geography, Geomorphology and Hydrology, Land Development, Environmental and Hazards, Geographic Information System

Carmen Varela, Mg. Universidad de Santiago, Chile, 1986, Lecturer — Urban Geography, Territorial Planning, Rural Development.

Guido Veliz, Ph.D. Laval University, Montreal, Canada, 1994, Professor — Urban Geography, History and Philosophy of Geography, Regional Geography and Land Use. Geography of Chile

UNIVERSIDAD DE SANTIAGO DE CHILE

DEPARTAMENTO DE INGENIERÍA GEOGRÁFICA
FECHA DE FUNDACIÓN: Enero 17 de 1958
PROGRAMAS DE ESTUDIO: Licenciatura en Ciencias de la Ingeniería, Título profesional Ingeniero Civil en Geografía
SITIO WEB: http://www.digeo.cl

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DEBE ESCRIBIR A: Marcos Medina Tapia, Santiago de Chile, Teléfonos: (56 2) 27182206, (56 2) 27182230,
Email: ingenieriacivil.geografica@usach.cl, marcos.medina@usach.cl.

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: Con fecha 31 de Diciembre de 1982 se crea la carrera de Ingeniería Civil en la especialidad de Geografía conducente al grado académico de Licenciado en Ciencias de la Ingeniería y título profesional de Ingeniero Civil Geógrafo, mediante decreto N° 1167/1982. La Unidad Académica ofrece tres programas de postgrado. El Magíster en Ambiente en cualquiera de sus dos líneas de investigación: Gestión y Planificación Ambiental del Territorio y Gestión de Recursos Hídricos. El Magíster en Medio Ambiente con mención en Gestión y Ordenamiento Ambiental. Y, por último, el Magíster en Geomática. La infraestructura de laboratorios cuenta con instalaciones y equipos que se utilizan para impartir la enseñanza práctica en las asignaturas que lo requieran y son de uso exclusivo de la Unidad. A continuación, se presenta una descripción de los laboratorios de la Unidad. La Unidad de Instrumentos Topográficos incluye instrumental topográfico y geodésico. La Estación Meteorológica permite la medición, almacenamiento, seguimiento y visualización de variables meteorológicas. El Laboratorio de Procesamiento de Datos Topográficos y Geodésicos permite el procesamiento de datos topográficos y geodésicos. Laboratorio de Geomorfología y Fotointerpretación posibilita la realización de identificaciones e interpretaciones de elementos territoriales geomorfológicos de transformación dinámica. Laboratorio de Fotogrametría cuenta con equipamiento de Fotogrametría análoga y digital que incorpora a este laboratorio en los procesos productivos de la Geomática. El Laboratorio de Cartografía Digital permite la generación de bases cartográficas digitales confiables métricamente. Laboratorio de Sistemas de Información Geográfica está dotado de programas que permiten el trabajo de geoprocesamiento de la información territorial. Laboratorio de Teledetección permite el procesamiento y explotación de la información contenida en imágenes satelitales. El Laboratorio de Modelamiento Ambiental y Territorial está orientado a la modelación y simulación matemática de sistemas territoriales y procesos ambientales. Laboratorio de Procesos Ambientales está capacitado para la realización de tareas de caracterización y diseño de procesos de tratamiento de residuos. Laboratorio de Bioprocesos Ambientales apoya a la docencia de bioprocesos ambientales. Laboratorio de Química Ambiental con insumos para el trabajo de laboratorio docente e investigación relacionada con la Química aplicada a problemas ambientales. Laboratorio de Ordenamiento Territorial está diseñado para promover el desarrollo de planes de ordenamiento territorial.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El principal objetivo de la Carrera de Ingeniería Civil en Geografía es formar profesionales en el área de la Ingeniería Civil, que respondan a las necesidades actuales y futuras que imponen las actividades humanas y productivas sobre el territorio, las que se materializan en proyectos de ingeniería y/o planificación y ordenamiento territorial, dando solución a los impactos ambientales, económicos y sociales que éstas generan, apuntando con ello a un desarrollo sustentable. Por lo anterior, el rol del Ingeniero Civil en Geografía es analizar, evaluar y proponer soluciones a los impactos generados por la localización de actividades humanas (asentamientos y proyectos de actividades productivas) en los aspectos ambientales, económicos y sociales del territorio, siendo capaz de participar en el desarrollo de políticas públicas en el ámbito del territorio. Por sus conocimientos formativos y su visión integral de la realidad, el Ingeniero Civil en Geografía está llamado a trabajar en equipos de profesionales de carácter interdisciplinario en la solución de problemas territoriales. Tiene su campo ocupacional en las instituciones públicas y privadas, relacionadas con planificación, medio ambiente, proyectos de ingeniería, aprovechamiento de recursos naturales, mediciones geodésicas y fotogramétricas, estudios demográficos, asentamientos humanos, entre otros. El Plan Académico de 2012 se formuló a partir del Perfil de Egreso vigente desde el año 2009, el cual es consistente con el Modelo Educativo Institucional y contempla un total de 66 asignaturas de ciencias básicas, ciencias de la ingeniería, ciencias de la especialidad, y en ciencias humanas y sociales. El proceso de admisión es a través del sistema nacional de selección universitaria, siendo necesario rendir la Prueba de Selección Universitaria (P.S.U.). El puntaje ponderado de ingreso está compuesto de Ranking (40%), Notas Enseñanza Media (10%), Prueba de Lenguaje (10%), Prueba de Matemáticas (30%) y Prueba de Ciencias (10%). Respecto a ayuda financiera, la Universidad cuenta con becas y créditos propios del sistema universitario nacional.

PROFESORADO:

Araya Bermúdez Mario, Doctor en Geografía
Borcosque Díaz José Luis, Doctor en Geografía
Caverlotti Marcelo, Doctor © en Ciencias de la Ingeniería
Corvalán Fernando, Doctor en Ingeniería de Procesos
Díaz Bambach Miguel, Master en Ciencias Aplicadas
Espinoza Ramírez Juan Carlos, Magíster en Asentamientos Humanos y Medio Ambiente
Herrera González Víctor, Magíster en Asentamientos Humanos y Medio Ambiente
Garrido Lazo René, Doctor en Ingeniería Química
Mauro Álvaro, Magíster en Geografía
Medina Tapia Marcos, Magíster en Ingeniería
Pantoja Mazzini Víctor, Magíster en Hidrología Aplicada
Pizarro Konczak Jaime, Doctor en Ciencias con mención en Química
Portal Valenzuela Belfor, Doctor en Geografía
Quintanilla Pérez Víctor, Doctor en Ciencias Naturales

Yañez Romo Verónica, Magíster en Ciencia Regional

COLOMBIA

ASOCIACIÓN COLOMBIANA DE GEÓGRAFOS, ACOGE

TIPO DE INSTITUCION: Sociedad profesional/asociación Científica
ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Promoción profesional de la geografía
FECHA DE FUNDACION: 21 de Junio de 1967
REVISTA: e-Boletín Acoge
SITIO WEB: http://www.acoge.org

PARA MAS INFORMACION CONTACTAR: MIGUEL ANTONIO ESPINOSA RICO, PRESIDENTE DEL CONSEJO DIRECTIVO, Carrera 57-B Bis 128-60, Bogotá, Colombia, Telefono: 57-1-6243153, acoge40@gmail.com

MISION DE LA ASOCIACION: ACOGE propende por el desarrollo de la geografía como una disciplina científica y como profesión de origen universitario, en general, y en particular por el avance académico de sus afiliados en Colombia.

ESTRUCTURA Y ORGANIZACIÓN: De acuerdo con sus Estatutos, ACOGE es una entidad de derecho público privado de Colombia, sin ánimo de lucro, regida por la Asamblea General de afiliados activos, el Consejo Directivo y la Dirección Ejecutiva. Administrativamente, el manejo de la organización corresponde al Director Ejecutivo, quien es elegido por la Asamblea General para ejercicios de tres (3) años. Tanto la Dirección Ejecutiva, como el Consejo Directivo, son apoyados por comités especializados en diversas gestiones.

FINES: (1) Propender por el desarrollo académico, científico y profesional de la disciplina geográfica; (2) Contribuir a la difusión y discusión de los problemas de los que se ocupa la comunidad geográfica global; (3) Procurar el desarrollo y progreso profesional y científico de sus afiliados; (4) Apoyar las instituciones colomnbianas en las que se enseña la geografía como carrera profesional en los niveles superior y posgraduado; y, en fin (5) Procurar que la geografía como carrera profesional y como comunidad científica contribuya al desarrollo general de Colombia.

PROGRAMA CIENTÍFICO-TÉCNICO Se desarrolla en cooperación con las universidades que tienen Facultades o Departamentos de Geografía por medio de Grupos de Investigación especializados.

PROGRAMA DE DESARROLLO INSTITUCIONAL Busca encauzar las actividades de la Asociación hacia la creación de la "Casa del Geógrafo", como sede física que albergue actividades de carácter social, profesional y académico en la ciudad de Bogotá. Este programa está orientándose por medio de un plan quinquenal que busca la adquisición y dotación de un inmueble que se inaugurará en el 2017, con motivo del semi-centenario de la Asociación. PROGRAMA DE FOMENTO DE LA GEOGRAFÍA Se cumple por medio del patrocinio cada dos años del Congreso Colombiano de Geografía, que se ha reunido ya durante 19 ocasiones.

MEMBRECIA: MEMBRECÍA Pueden ingresar como afiliados los profesionales residentes en Colombia interesados en los fines para los cuales fue creada la Asociación. Hay cuatro tipos de miembros: (1) Regulares; (2) Asociados; (3) Estudiantes de geografía; (4) Institucionales. La categoría de miembros regulares está reservada a geógrafos profesionales, ingenieros geógrafos y licenciados en ciencias sociales.
EVENTOS ANUALES: El Congreso Colombiano de Geografía se realiza cada dos años; alternamente, se reune la Convención Colombiana de Pedagogía Geográfica, cada dos años (aproximadamente 250 asistentes al evento)

GRUPO DE INVESTIGACIÓN INTERINSTITUCIONAL GEOPAIDEIA

TIPO DE INSTITUCION: Sociedad profesional/asociación Científica
ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Educación
FECHA DE FUNDACION: 1995
SITIO WEB: www.geopaideia.com

PARA MAS INFORMACION CONTACTAR: Alexander Cely Rodríguez, Representante legal de la asociación, Calle 61 No. 5 - 61 Apt 401 Bogotá – Colombia, Telefono: 2 480648, Fax: 2 841981, alexcely@gmail.com, numola1969@hotmail.com

MISION DEL GRUPO: GEOPAIDEIA nace como un grupo de investigación integrado por profesores y egresados de la Maestría en Educación con énfasis en Docencia de la Geografía de la Universidad Pedagógica Nacional (UPN). En la actualidad es un grupo de carácter interinstitucional entre la UPN y la Universidad Distrital "Francisco José de Caldas" (UDFJC), clasificado en Colciencias en categoría B, reuniendo profesores de diversas áreas de las Ciencias Sociales, interesados en la reflexión del espacio desde una perspectiva multidisciplinar con miras a aportar en la comprensión contemporánea de la geografía y su relación con el mundo cotidiano, al igual que generar propuestas pedagógicas que cualifiquen su enseñanza dentro de los procesos educativos.

ESTRUCTURA Y ORGANIZACIÓN: El grupo Geopaideia ha ido construyendo una amplia experiencia, producto del trabajo investigativo y docente sobre líneas tales como: Educación geográfica, Didáctica de la geografía, Espacio, territorio y ciudad, Geografía y literatura, Geografía y filosofía, Geografía y cultura, que posibilitan el reconocimiento de diversos procesos de conceptualización, organización y significación espacial. El grupo tiene como objeto social la gestión y promoción de la investigación y el desarrollo científico, la formulación y ejecución de proyectos de investigación; el desarrollo de procesos de formación en ciencia, tecnología e investigación; bien sea a nivel de eventos, prácticas, pasantías, trabajos de grado (monografías y tesis). La oferta de proyectos de capacitación a nivel local, regional, nacional e internacional. La producción de textos y software de divulgación científica; el desarrollo y fomento a la investigación en el ámbito educativo formal y no formal, tanto público como privado, con proyección social y de apoyo a la educación del país.

FINES: Los fines específicos del Grupo Geopaideia son: a. Consolidar un equipo de trabajo interdisciplinario, que genere procesos e impactos en los sujetos de las comunidades sobre las que orienta su quehacer b. Gestionar de común acuerdo con Entidades Nacionales o Extranjeras recursos o programas destinados a la ejecución de proyectos del Grupo Geopaideia c. Realizar la gestión de proyectos de investigación que busquen determinar posibles soluciones a los problemas educativos en las comunidades de aprendizaje. d. Realizar la promoción de proyectos y resultados de investigación mediante diversos tipos de actividades e. Generar procesos de formación a nivel de investigación en diversos ámbitos y

empleando distintas metodologías, técnicas y estrategias f. Contribuir con una cultura de la investigación en los ámbitos de formación y educación, tanto a nivel técnico, tecnológico y profesional a escala local, regional, nacional e internacional. g. Realizar la gestión y promoción de proyectos y eventos de investigación h. Generar espacios de formación en ciencia, tecnología e investigación, mediante conferencias, seminarios, talleres, cursos libres, simposios, congresos, foros, conversatorios, salidas de campo y demás eventos relacionados i. Gestionar, generar, implementar y adoptar planes, programas, proyectos y modelos de formación y cualificación j. Realizar ofertas de formación y capacitación a través de consultorías, asesorías, cursos de extensión (presenciales y/o virtuales) k. La producción, edición y divulgación de textos académicos y científicos por medio de artículos, libros, revistas, ponencias l. La producción de software de carácter científico y académico m. Asesorar proyectos comunitarios en zonas urbanas y/o rurales n. Aplicar conocimientos científicos y académicos con diversas comunidades para mejorar su calidad de vida

PROGRAMAS QUE SE OFRECEN: Dado el carácter que tiente la Asociación esta está en capacidad de: a. Desarrollar proyectos de investigación que aporten en la educación geográfica y en procesos territoriales que construyen los ciudadanos. b. Realizar actividades de formación y cualificación presenciales y/o virtuales, que comprenden cursos básicos, conferencias, talleres, seminarios, entre otras. c. Preparar, organizar y realizar talleres, foros de divulgación, conferencias, seminarios, conversatorios, cursos, muestras, encuentros. d. Crear redes de información y propiciar la relación con otras entidades similares ya sean nacionales o internacionales. e. Procurar el intercambio de publicaciones especializadas y productos elaborados por la Asociación. f. Apoyar e impulsar la edición de material necesario y propender por su difusión a través de folletos, manuales o cualquier otro medio que proporcione el conocimiento de los ejes temáticos relacionados con su objeto social a las personas, entidades o países interesados.

MIEMBROS: La Asociación es una Entidad de derecho civil sin ánimo de lucro, creada en Bogotá Distrito Capital por sus constituyentes, todos ellos domiciliados en Bogotá D.C., quienes reunidos decidieron organizar dicha ASOCIACIÓN de acuerdo a los dispuesto en la Constitución Nacional. La Asociación en la actualidad la Asociación cuenta 8 miembros.

PUBLICACIONES RECIENTES:

Moreno, N. Rodríguez, L. Sánchez J. (2011) La salida de campo…se hace escuela al andar. Grupo de investigación Geopaideia. Editorial Geopaideia. Libro Virtual disponible en www.geopaideia.com enlace publicaciones.

Cely A. & Moreno N. (2011) Ciudades leídas, ciudades contadas. La ciudad latinoamericana como escenario didáctico para la enseñanza de la geografía. Bogotá D.C: Universidad Distrital Francisco José de Caldas.

Moreno, N. (2011) Re pensar la enseñanza de la ciudad. Alternativa para la formación ciudadana. En Producao do conhecimento e pesquisa no ensino da geografía. Goiania: Universidade Católica de Goiás y por la Universidade Federal de Goiás.

Moreno, N. Cely A. Hurtado M. Rodríguez L. Sánchez J. (2011) ¿Qué función debe cumplir la enseñanza de las ciencias sociales en la escuela? Bogotá: Geopaideia Ediciones – Vicens Vives.

Moreno, N. & Hurtado M. (2010) Itinerarios Geográficos en la escuela. Lecturas desde la virtualidad. Grupo de investigación Geopaideia. Editorial Geopaideia. Libro Virtual disponible en www.geopaideia.com enlace publicaciones.

http://www.geopaideia.com/?page_id=217
http://www.anekumene.com/index.php/revista

RAZÓN CARTOGRÁFICA, RED DE HISTORIA DE LAS GEOGRAFÍAS Y CARTOGRAFÍAS DE COLOMBIA

TIPO DE INSTITUCION: Sociedad profesional/asociación científica
ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Comunicación/networking
FECHA DE FUNDACION: Agosto de 2007
SITIO WEB: http://razoncartografica.com/

PARA MAS INFORMACION CONTACTAR: SEBASTIAN DIAZ ANGEL, COORDINADOR, Carrera 18 No 33- 46 (apto 303), Barrio Teusaquillo, Bogota, Colombia, Telefono: (+571)3404244, razoncartografica@gmail.com

MISION: Razón Cartográfica busca articular, promover y difundir las investigaciones relacionadas con la historia de la geografía y la cartografía en Colombia e Ibero/Latinoamérica. También le apuesta a la interlocución entre historia, geografía, cartografía y el pensamiento crítico. Nuestro objetivo principal es articular esfuerzos de todas las personas e instituciones potencialmente interesadas en la protección, la difusión y la investigación del patrimonio cartográfico, y de las colecciones y archivos documentales -privados o públicos- relacionados con geografía y cartografía en Colombia. También buscamos contribuir al desarrollo de una mirada crítica e histórica sobre conocimientos geográficos, concepciones espaciales, cartografías y representaciones del territorio; así como sobre instituciones, disciplinas, racionalidades, prácticas y personas involucradas en la producción, la codificación, el ordenamiento del espacio y la circulación y consumo de conocimientos e imaginarios geográficos y cartográficos.

ESTRUCTURA Y ORGANIZACIÓN: Esta constituido por: un Comité Coordinador, un Coordinador, un Administrador y editor del sitio web, un Directorio de Investigadores y Subscriptores del sitio web. El Comité Coordinador es quien guía las estrategias del proyecto. El Coordinador es el responsable del cumplimiento de las estrategias del proyecto. El Administrador y editor del sitio web es el encargado de mantener actualizado el sitio web (en la actualidad es el coordinador del proyecto). El Directorio de Investigadores son las personas que voluntariamente apoyan el proyecto como investigadores asociados. Los suscriptores del sitio web administran su relación con el proyecto.

FINES: Razón Cartográfica (RC) es una red informal, privada, autónoma y sin ánimo de lucro, integrada voluntariamente por personas naturales que comparten sus principios y objetivos. Su propósito es la articulación, la vinculación, la interlocución y el trabajo colaborativo en red para promover: 1. “la investigación, la publicación y la difusión de la historia de la cartografía, de la cartografía crítica, de la geografía histórica, de la historia de la geografía y del pensamiento espacial en ciencias sociales en Colombia, iberoamérica y el mundo”,2. “la protección y la difusión del patrimonio cartográfico y de las colecciones y archivos de geografía y cartografía en Colombia, iberoamérica y el mundo”,3. “el fortalecimiento del estudio, la discusión y la democratización del conocimiento sobre historia, geografía, cartografía y áreas afines en Colombia”,4. “el desarrollo de una mirada crítica e histórica sobre conocimientos geográficos, concepciones espaciales, cartografías y representaciones del territorio; así como sobre instituciones, disciplinas, racionalidades, prácticas y personas involucradas en la codificación, el ordenamiento del espacio y la circulación y consumo de conocimientos e imaginarios geográficos”,5. “el diálogo y el debate entre todos aquellos interesados por el desarrollo de los conocimientos

geográficos, y el uso de las herramientas de análisis y representación del espacio en las ciencias sociales, las artes y las humanidades" 6. "la cooperación, la alianza y el intercambio de conocimiento e información con entidades y proyectos afines a nivel local, nacional, e internacional."Para desarrollar sus objetivos Razón Cartográfica (RC) ha establecido las siguientes estrategias: Interesar, articular y vincular permanente estudiantes, profesionales, proyectos y entidades afines. Colaborar con estudiantes, profesionales, proyectos y entidades vinculadas, aliados y afines. Explotar los TICs para aprovechar las oportunidades de interacción instantánea, horizontal y multimedial de la cultura digital para la visibilización y el desarrollo de los objetivos de RC. Archivar, comunicar y difundir permanente información y contenidos actualizados de interés para investigadores, estudiantes, profesionales, proyectos, entidades y público en general, sobre temas afines a RC. Gestionar y apoyar la construcción y desarrollo de escenarios y procesos locales de investigación, discusión, difusión y publicación de temas afines a RC. Organizar, co-organizar y participar en eventos académicos o de difusión nacionales e internacionales, y en toda actividad acorde a los fines de RC.

PROGRAMAS QUE SE OFRECEN: Eventos y actividades académicos. En asocio con instituciones locales, Razón Cartográfica apoya eventos y actividades de promoción de la mirada social y cultural de la historia de la cartografía, de difusión de la memoria cartográfica de Colombia y de apropiación social y crítica de los conocimientos geográficos. Mapoteca Digital: Razón Cartográfica apoya la conformación de una mapoteca digital colombiana, en la que se cataloguen y digitalicen las colecciones cartográficas de archivos, bibliotecas y universidades del país (ya sean de carácter públicas o privadas), como plataforma para la investigación, la difusión y la apropiación social de la memoria cartográfica.

UNIVERSITY DE CORDOBA, COLOMBIA

DEPARTAMENTO DE GEOGRAFÍA Y MEDIO AMBIENTE
FECHA DE FUNDACION: Departamento de Geografía: Julio 10 de 1998 - Universidad de Córdoba: 1964
PROGRAMAS: Licenciatura, Maestría
JEFA DEL DEPARTAMENTO: Doris Villalba-León
CONTACTO PARA PROGRAMA DE PREGRADO: Doris Villalba-León, dvillalba@correo.unicordoba.edu.co
LICENCIATURAS OTORGADAS ANUALMENTE: 18
CONTACTO PARA PROGRAMA DE POSGRADO: Jairo Durango-Vertel, jairodurangovertel@gmail.com
POSGRADOS OTORGADOS ANUALMENTE: 2
CENTROS DE INVESTIGACION: Instituto de Investigaciones Geográficas y Ambientales del Caribe (GeoCaribe)
SITIO WEB: http://www.geo-unicordoba.info
URL DE PROGRAMA EN LINEA: http://www.geo-unicordoba.info http://www.geocaribe.org

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Doris Villalba-León, Jefa del Departamento, Montería, Departamento de Córdoba, Colombia, Teléfono: 57-4-7818039, deptogeografia@unicordoba.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La geografía es una disciplina antiquísima y a la vez muy moderna. Las más remotas manifestaciones del pensamiento registradas por escrito dan prioridad a la innata curiosidad del hombre sobre su entorno. Por otra parte, el geógrafo de hoy utiliza modernas tecnologías de observación y análisis para estudiar los fenómenos que ocurren en la superficie terrestre, en términos de su localización, interacción y otros atributos espaciales, al tiempo que participa de las corrientes filosóficas y metodológicas que orientan el progreso científico general. El Departamento de Geografía y Medfio Ambiente de la Universidad de Córdoba ofrece dos niveles de estudio sistemático, el universitario superior (pregrado) y la maestría, a través de los cuales forma profesionales capacitados para manejar técnica y científicamente las tareas disciplinares propias de un geógrafo. Se ha creado también el Instituto de Investigaciones Geográficas y Ambientales del Caribe (GeoCaribe), cuyas funciones se orientan a satisfacer las necesidades de investigación y extensión geográficas en la región caribeña.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El ingreso a la carrera de geografía requiere la acreditación del título de bachiller y haber alcanzado en las pruebas del Ministerio de Educación los niveles que la Universidad establece para la admisión general. En el Programa de Pregrado se brinda al estudiante una formación equilibrada entre los componentes Teórico-Metodológico, Técnico-Instrumental, áreas Geografía Física y Humana, con cursos de apoyo que complementan la formación integral, distribuidos en 10 semestres académicos de estudio. El Programa de Maestría requiere acreditar un título de geógrafo, licenciado en ciencias sociales u otro de áreas afines a la geografía. Se requieren cuatro semestres de estudio y la investigación y sustentación de una tesis. La ayuda financiera que requieran los estudiantes la pueden gestionar a través del Icetex, una agencia gubernamental especializada en becas y préstamos educativos.

PROFESORADO:

Jairo Manuel Durango Vertel: Licenciado en ciencias sociales, Especialista en SIG y sensores remotos, M.Sc. en geografía, estudiante de doctorado en geografía

Doris Alicia Villalba León: Antropóloga, Especialista en gestión y desarrollo comunitario, Maestría en gobierno municipal, M.Sc. en geografía

Doris Mejía Ávila: Ingeniera forestal, Especialista en SIG, estudiante de doctorado en geografía

Rubén Darío Godoy Gutiérrez: Licenciado en ciencias sociales, M.Sc. en geografía

Doris Helena Serrano Amaya: Agróloga, Especialista en SIG, Maestría en geomàtica

Edgar Rafael Manotas Olascoaga: Ingeniero agrónomo, M.Sc.en geografía

El Departamento también cuenta ocasionalmente con la colaboración de profesores visitantes, entre quienes se cuenta especialmente a: Héctor F. Rucinque, Ph.D. y M.Sc. (MSU y Wisconsin-Madison) y Ovidio R. Toro, M.A. (Iowa). Actualmente están vinculados como profesores ocasionales los siguientes exalumnos de la maestría: Rosana Garnica Berrocal, Wilson Bayardo Castro, Arnulfo Manuel Gómez Ramos, Teonila Ided Aguilar Jiménez, Oscar Antonio Puerta Avilés. Otros catedráticos: Alexis Carbono Mendoza, Hugo Cadena Cepeda, Kelly Rosa Oviedo Mercado y Maria Isabel Toro.

Título de Magister (M.Sc.) y tesis 2010-2011:

Manotas-Olascoaga, Edgar Rafael: "Las inundaciones en el municipio de Montería. Un riesgo percibido por sus habitantes en la ocupación del espacio ribereño del Río Sinú". (Dr. Héctor F. Rucinque, asesor académico, 2010)

Zapata-Salcedo, Jorge Luis: "Espacios de consumo en la ciudad de Montería, Colombia: Una aproximación desde la geografía cultural". (Dr. Héctor F. Rucinque, asesor académico, 2011)

UNIVERSIDAD DE LOS ANDES, BOGOTÁ

DEPARTAMENTO DE HISTORIA
FECHA DE FUNDACION: 1948
PROGRAMAS DE ESTUDIO: Maestría
CONTACTO PARA PROGRAMA DE POSGRADO:
Catalina Merchán Salazar, maggeo@uniandes.edu.co
POSGRADOS OTORGADOS ANUALMENTE: 4
SITIO WEB: http://historia.uniandes.edu.co/

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Coordinadora Académica: Catalina Merchán Salazar, Numero de teléfono: 3394949 ext. 4816, maggeo@uniandes.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La Maestría en Geografía preparará a profesionales de variadas disciplinas para realizar investigaciones en geografía y para que incorporen los aportes de este campo de conocimiento a su formación y su ejercicio profesional. La Maestría en Geografía está organizada alrededor de dos ejes que definen a esta polifacética área del conocimiento: 1) La relación entre las sociedades y el medio ambiente, y 2) El espacio como categoría fundamental para entender los fenómenos sociales. El primer eje ha definido el quehacer geográfico desde sus inicios y el segundo se ha constituido en las últimas décadas en un aporte imprescindible de la geografía a las ciencias sociales. Sobre estas bases, la Maestría se caracteriza por sus estrechos vínculos con las ciencias sociales, especialmente con la historia, sin perder de vista su relación con la geografía física. Así, dotará a los estudiantes de las herramientas teóricas y metodológicas que caracterizan hoy a la disciplina y le permiten un diálogo permanente con otras áreas del conocimiento. La Maestría en Geografía busca contribuir al actual crecimiento de esta disciplina en Colombia, que a pesar de contar con una larga tradición, sólo hasta hace poco más de una década ha tenido un avance académico significativo con la creación de diversos programas de formación de pregrado y posgrado. También pretende nutrirse del gran dinamismo actual de la geografía humana y cultural a nivel internacional para contribuir al conocimiento de la realidad, principalmente de nuestro país, pero también de otros lugares. De este modo formará investigadores que hagan evidente la importancia del espacio y el entorno natural en el análisis social. De igual forma incentivará la investigación y divulgación de los nuevos conocimientos obtenidos, con el fin de contribuir a mejorar la situación social del país.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Los admitidos deberán seguir un plan de estudios de tres semestres, cada uno con tres asignaturas de cuatro créditos, para un total 36 créditos. Las materias se dividen en tres grandes áreas: Área de Formación Básica, Área de Seminarios y Área de Práctica de Investigación. La primera está conformada por cuatro materias (sociedad y naturaleza, espacio y sociedad, geografía física y taller de cartografía) que proporcionarán a los estudiantes los conocimientos temáticos y teóricos básicos para su desempeño en geografía. La segunda está conformada por tres seminarios electivos, que le permitirán al estudiante profundizar en su área de interés, y la tercera por el desarrollo del trabajo de grado.

PROFESORADO:

Guhl, Andrés, Ph.D. en Geografía de University of Florida—transformaciones del paisaje, desarrollo, ecología del paisaje, ecología política y geografía ambiental

Herrera, Marta, Ph.D. en Geografía de Syracuse University—ordenamiento social y espacial

Leal, Claudia, Ph.D. en Geografía de University of California, Berkeley—historia ambiental, ecología política

Sánchez, Luis, Ph.D. en Geografía de Florida State University—geografía política y cultural, las geografías de la construcción de la identidad, migración, desarrollo, globalización

Van Ausdal, Shawn, Ph.D. en Geografía de University of California, Berkeley—naturaleza y sociedad, historia del desarrollo, y economía política de la comida

UNIVERSIDAD DEL VALLE

DEPARTAMENTO DE GEOGRAFÍA
FECHA DE FUNDACION: Diciembre 3 de 1992
PROGRAMAS DE ESTUDIO: Grado asociado/técnico, Licenciatura
SITIO WEB: http://geografia.univalle.edu.co/

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Andrés Enrique Bautista, Santiago de Cali, Colombia, Telefono: (57-2) 3212189, Fax: (57-2) 3303343 – 3334909, dgeograf@univalle.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: El Departamento fue creado según la Resolución No 135 de diciembre 3 de 1992, del Consejo Superior de la Universidad. Su estructura se basa en la organización y funcionamiento de cuatro cátedras, las cuales responden a áreas específicas del conocimiento geográfico, lo mismo que a problemas concretos de investigación que han venido siendo estudiados por los profesores de la Unidad. Las Cátedras son : Geografía Física - Medio Ambiente; Geografía Económica - Social; Geografía Política - Planeamiento Territorial y Cartografía. Los profesores que forman parte de la Unidad Académica han presentado sus proyectos de investigación en áreas específicas de trabajo, algunos han sido aprobados y otros estan en pleno proceso de evaluación; sus líneas se enmarcan dentro de lo estipulado para cada cátedra y las investigaciones en general comprenden aspectos relacionados con: Geografía Rural y Económica, Ordenamiento Territorial, Geografía Aplicada - área urbana y Geografía Física. Nuestras actividades nos han permitido contar con una revista de divulgación: La Revista GEO, y tenemos en preparación la edición de un segundo número. De otro lado, contribuye a la presentación de la propuesta de realizar la Especialización en Geografía, el hecho de que el Departamento es la única Unidad Académica de Geografía que hay en el Valle del Cauca. Su creación específica obedeció al interés de abrir el campo de esta disciplina en el contexto universitario en igualdad de condiciones con los otros campos del saber. La Unidad ha venido cubriendo los distintos planes desde antes de su creación, cuando entonces funcionaba como una sección de Geografía en el Departamento de Historia. En la Universidad existen en el momento otras Unidades Académicas y de investigación que tienen de alguna manera afinidades con el que hacer geográfico, y que cuentan con una infraestructura técnica y tradición investigativa, las cuales servirán de apoyo a la Especialización. Estas son: El Instituto de Abastecimiento y Remoción de Aguas, - CINARA; El Centro de Estudios Regionales,- REGION; El Observatorio Sismológico del Sur-occidente,-OSSO; El Instituto de Estudios del Pacífico y La Facultad de Ingenierías. Además en Cali hay instituciones muy ligadas a los estudios geográficos que serán de gran importancia, no sólo para lograr obtener una mayor información, sino para poder realizar algunas actividades de campo, como son entre otras: La CVC, El DAGMA, El IGAC e INGEOMINAS.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Requisitos de Admisión y Selección: Puntaje del ICFES del año 2006 en adelante: Historia 45, Lenguaje 45, Geografía 45, Biología 35; Matemáticas 40; y Filosofía 35. En relación con

transferencias y traslados, los estudiantes deben cumplir con los siguientes requisitos: Provenir de un programa académico afín (Geología, Licenciatura en Ciencias Sociales, Licenciatura en Geografía, Licenciatura en Historia, Historia, Ingeniería Geográfica, Ingeniería Topográfica, Economía, Antropología, Sociología, entre otros) y permitir mediante la homologación de asignaturas la ubicación por lo menos, en segundo semestre. Fecha de Iniciación de Actividades: Enero 2003 Creado mediante Resolución 004 de Febrero 28 de 2002, del Consejo Superior de la Universidad del Valle. Aprobado por: Resolución del Consejo Académico No. 014 del 24 de Enero de 2002 y Resolución del Consejo Superior No. 004 del 28 de febrero de 2002. Registro SNIES: 16018 del Ministerio de Educación Nacional (Renovación por 7 años a partir de la Resolución 6316 del 23 de octubre de 2007) Título que se expide: Geógrafo Duración: 5 Años Periodicidad de la Admisión: Anual Modalidad: Diurna (lunes a viernes de 7:00-10:00 asignaturas propias y de 10:00-13: 00 Electivas profesionales o complementarias)

PROFESORADO
Planta Profesoral Nombrados Elkin de Jesús Salcedo Dr. en Geociencias Jaime Vásquez Sánchez Dr. Geografía Económica - Social Rodolfo Espinosa López Magíster en Geografía Javier E. Thomas Bohórquez Magíster en Geografía Cecilia Orozco Cañas Esp. en Administración pública. Esp. en Políticas Públicas Pedro Martín Martínez Toro Magíster en Política Territorial y Urbanística Luis Marino Santana Rodríguez Doctor en Cartografía, Sistemas de Información Geográfica y Teledetección. Oscar Buitrago Bermúdez Magíster en Geografía con énfasis en Ordenamiento Territorial. Zaida Liz Patiño Gomez Doctora en Ciencias Sociales. Área de profundización Sociedad y Educación. Ramón Serna Magíster en Geografía con énfasis en Ordenamiento Territorial Contratistas Julio Cesár Rubio Candidato a Magister en Educación Popular y Desarrollo Comunitario. Hernando Uribe Castro Magíster en Sociología, Universidad del Valle. Carlos González Rodríguez Ingeniero Forestal. Cartografía general. Ramiro Bonilla Sandoval Msc. en Planificación Urbana

UNIVERSIDAD EXTERNADO DE COLOMBIA

PROGRAMA DE GEOGRAFIA
FECHA DE FUNDACION: 2005
ESPECIALIZACIÓN EN GEOGRAFÍA POLÍTICA Y GEOPOLÍTCA DEL MUNDO
ACTUAL FUNDADA EN: 2010
TITULOS OFRECIDOS: Pregrado, Especialización
GRADOS CONCEDIDOS: Ninguno
ESTUDIANTES EN RESIDENCIA: 12 Pregrado, 5 Especialización
NO EN RESIDENCIA: 1 Pregrado
JEFE DE PROGRAMA: Philippe Chenut (e.)

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Sr. Philippe Chenut, Director (e.) Programa de Geografía, Facultad de Ciencias Humanas, Universidad Externado de Colombia, Calle 12 No. 1-17 Este Bogotá Colombia Teléfono (57 1) 341-990. Fax (57 1) (57 1) 341- 8158. E-Mail: geografia@uexternado.edu.co
Internet:http://portal.uexternado.edu.co/irj/portal/anonymous?guest_user=sociales&NavigationTarget=navurl://e19058adde7c1bca8ac0da720344db6a

PROGRAMAS E INSTALACIONES DE INVESTIGACION: Los objetivos del programa incluyen el estudio de (1) la relaciones entre los actores sociales y su entorno biofísico y social (2) el papel que juegan las relaciones de poder en los procesos de gestión y ordenamiento del territorio (3) el análisis espacial. Los estudiantes del programa desarrollan sus estudios dentro de un enfoque interdisciplinario, con un fuerte énfasis en la investigación. Se pretende que sean capaces de trabajar en equipos formados por diversos profesionales de las ciencias sociales y naturales. Es así como desarrollan sus trabajos de grado en áreas de investigación interdisciplinarias en las que interactúan estudiantes y profesores de diversas disciplinas. Las fortalezas del programa son las siguientes: a) Geografía política e histórica; b) Geografía urbana; c) Epistemología de la geografía; d) Análisis espacial; e)Efectos territoriales de la globalización y las migraciones, f) Geografía agraria

PLAN ACADEMICO, REQUISITIOS DE ADMISION, AYUDA FINANCIERA: El plan de estudios se desarrolla en 10 semestres. Requisitos de adimisión: Diploma de educación secundaria de Colombia o equivalente, examen del ICFES, entrevis Apoyo financiero: becas, monitorías académicas y de investigación; Programa de becas para miembros de minorías étnicas

PROFESORADO:
Camilo Domínguez, Sociólogo — Doctorado en geografía, Sao Paulo, 2004, Docente-Investigador Geografía política e histórica— Estudios amazónicos y del Caribe
Gustavo Montañez, Ingeniero geógrafo, PhD Geografía Universidad de la Florida, 1995, Docente-Investigador — Geografía política y cultural – efectos territoriales de la globalización
Luis Berneth Peña, Geógrafo Doctorando en Geografía Université Rennes2 Docente, Investigador — Geografía urbana – Epistemología de la geografía, análisis espacial
Philippe Chenut, Geógrafo Mgr Medio ambiente y Desarrollo Universidad Nacional de Colombia (Cand.), Docente-Investigador, Ordenamiento ambiental del territorio —análisis espacial
Laura Rincón, Geógrafa Mgr. Economía social Universidad Nacional de General Sarmiento Buenos Aires (Cand.) Docente-Investigadora, Efectos territoriales de las migraciones — Planificación urbano-regional
Bladimir Rodríguez, Geógrafo, Topógrafo, Economía social Universidad Nacional de General Sarmiento Buenos Aires (Cand.) Geografía agrarian — Desarrollo local

PROFESORADO ASOCIADO:
Elkin Velásquez, Ingeniero Geólogo – Doctorado en Geografía. U. de Grenoble, Gobernanza territorial — Riesgos naturales y antrópicos
Claudia Romero, Ingeniera topógrafa - Mgr. SIG y Teledetección U. de Alcalá — Cartografía, Teledetección, SIG, análisis especial

UNIVERSIDAD NACIONAL DE COLOMBIA

DEPARTMENT OF GEOGRAPHY
DEPARTMENT DATE FOUNDED: 1967
DIRECTOR: Nohra León Rodríguez
UNDERGRADUATE PROGRAM FOUNDED: 1991
COORDINATOR UNDERGRADUATE PROGRAM: Jhon Williams Montoya G.
COORDINATOR GRADUATE PROGRAM: Luis Carlos Jiménez Reyes

The Department of Geography (Human Sciences Faculty, National University of Colombia) has undergraduate and graduate programs (Postgraduate diploma in Spatial Analysis, Master in Geography and Doctorate in Geography) and carries out research programs in geography and related sciences and disciplines.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Director del Departamento de Geografia, Carrera 30 45-03, Universidad Nacional de Colombia; Sede Bogotá, Colombia. Telefonos (57-1) 3165025 o 3165000 ext. 16321, 16320, Fax (57-1) 3165025. E-mail address: depgeografi_bog@unal.edu.co

UNDERGRADUATE PROGRAM
DEGREE OFFERED: Professional Geographer
STUDENTS IN RESIDENCE: 221
The graduate program leads to a bachelor degree in Geography and it is oriented towards developing abilities in research as well as skills in methodology and techniques of geographic analysis. The program includes the basic formation in geography and specialized courses in four areas: (1) Human Geography (2) Physical Geography (3) Environmental Geography and (4) Geographical information technologies. The fieldwork plays an important role in both the physical and human courses.

GRADUATE PROGRAM
GRADUATE PROGRAMS FOUNDED: 2008
STUDENTS IN RESIDENCE: 120
The graduate programs develop their activities in the frame of the following research lines: 1) Spatial dynamics and urban and regional studies; 2) Natural and human-induced hazards and risks; 3) Biogeophysical and socioeconomic dimension of global change; 4) Space and territory; 5) Culture and environment.

POSTGRADUATE DIPLOMA IN SPATIAL ANALYSIS
DEGREE OFFERED: Specialist in Spatial Analysis
This postgraduate diploma provides to professionals from different areas the abilities and knowledge to be competent to work on zoning and environmental synthesis and in analysis of urban and regional problems.

MAGISTER PROGRAM
DEGREE OFFERED: M. Sc. in Geography
Magister Program in Geography forms young researchers in geography with the abilities to participate or lead interdisciplinary studies on both man-nature interaction, and spatial analysis issues, especially on the research lines of Department of Geography.

DOCTORAL PROGRAM
DEGREE OFFERED: Doctor in Geography
This graduate program prepares leaders for the research activity in the geographical area of knowledge. This leader is a researcher with the capacity to propose, develop and lead research programs which contribute to improve both the knowledge and the understanding of spatial dynamics involved in the society-nature interaction.

FACULTY:
Nohra León, Doctor in Economics Sciences, Universidad Nacional de Colombia, 2003, Associate Professor—Economic Geography, Environmental Studies, Introduction to Geography
Germán Vargas C., Doctor in Earth Sciences (Université Pierre at Marie Curie, Paris VI, Paris, France, 1997), Associate Professor—Geology, Remote Sensing, Natural Hazards
José Daniel Pabón, Ph.D. in Meteorology, Odessa GMI, former USSR, 1987, Associated Professor—Meteoroloy and Climatology, Climate Variability and Climate Change, Natural Hazards, Environmental Studies
John-Williams Montoya, Ph.D. in Geographic Sciences (Université Laval, QC, Canada, 2012), Associate Professor—Urban Geography, Theory of the Geography
Luis Carlos Jiménez- Reyes, Doctor in Geography of Development (Université de Bordeaux 3, 1999), Associate Professor—Urban Geography, Regional Geography, Urban and Regional Planning
Juan Manuel Diaz, Dr. rer. nat. (Justus Liebig Universitat - Germany, 1985), Associate Professor—Biogeography, Marine Biology
Isabel Duque, Doctor in Human Geography 2008 (Universidad de Barcelona), Associate Professor—Urban Geography, Urban Planning and Management
Astrid Ulloa, Ph. D.in Anthropology (University of California-Irvine, 2003), Titular Professor—Cultural Geography, Political Ecology, Gender Geography
Jeffer Chaparro M., Doctor in Human Geography (Universidad de Barcelona, 2009), Assistant Professor—Cybergeography, Human Geography, Urban Geography, Geography and Education
Alice Amandine Beuf, Doctor in Human, economic and regional Geography, Université Paris Ouest, Nanterre La Défense, 2011. Assistant Professor—Social Geography, Urban Geography, Economic Geography
Susana Barrera, Ph.D. (c) in Geography (Wilfrid Laurier University - University of Waterloo, Canada, 2004), Associate Professor—Urban Watershed management, Urban Geography, Environmental Geography, and GIS
Gabriel Triana, Doctor (c) in Geography (Universidad Nacional de Colombia, 2009), Associate Professor—Analysis and Spatial Modeling, Geographic Information Technologies
Luis Jorge Gracia, M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 1992, Assistant Professor—Population Geography, Rural Geography
Willington Siabato Doctor (c) in Geographical Engineering (Universidad Politécnica de Madrid, 2009), Assistant Professor—Analysis and Spatial Modeling, Geographic Information Technologies
Luis Gabriel Salas Salazar M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 2010, Assistant Professor—Political Geography, Human Geography

UNIVERSIDAD PEDAGOGICA Y TECNOLOGICA DE COLOMBIA UPTC

DEPARTAMENTO DE CIENCIAS SOCIALES
FECHA DE FUNDACION: 1957
PROGRAMAS DE ESTUDIO: Licenciatura en Ciencias Sociales
SITIO WEB: www.uptc.edu.co

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Jorge Ruiz, Profesor Asociado, Tunja, Colombia, Telefono: 5787422174, Fax: 5787436206, ciencias.sociales@uptc.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN Competencias Básicas: 1.Capacidad para establecer criterios y procedimientos que le permitan trabajar conjuntamente con la comunidad, en la búsqueda de valores, en la recuperación creativa de la cultura y en la preservación y uso racional del medio ambiente. 2.Orientar una actitud abierta al cambio en lo social, político, pedagógico y cultural, a partir de los sustentos científicos, epistemológicos y filosóficos alcanzados durante la carrera. 3.Análisis crítico de la realidad social y sus conflictos, para plantear alternativas de solución desde un enfoque socio-crítico. 4.Utilización de distintas estrategias y modelos pedagógicos que contribuyen con la enseñanza – aprendizaje de las ciencias sociales. Competencias Generales: 1.Promover la participación democrática de la comunidad en el estudio, tratamiento y solución de sus problemas de tal forma que llegue a ser reconocido por ella como un líder y gestor comunitario. 2.Coordinar las acciones de educación para la vida democrática, la convivencia y la participación y el fortalecimiento de la sociedad civil. 3.Adoptar un consecuente compromiso ético y moral como profesional de la educación. Competencias Profesionales: 1.Diseñar y

ejecutar propuestas para la enseñanza y aprendizaje de las Ciencias Sociales de manera integral y acorde con las necesidades y aspiraciones de la comunidad donde labora. 2.Desempeñar la docencia en Educación Básica y en Educación Media en áreas de Historia, Geografía, Filosofía, Democracia, Medio Ambiente y Derechos Humanos.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA
ASIGNATURAS CRÉDITOS ÁREA PRIMER SEMESTRE COMPETENCIAS COMUNICATIVAS 4 GENERAL GEOCIENCIAS 3 DISCIPLINAR Y PROFUNDIZACIÓN HISTORIA ANTIGUA Y MEDIEVAL 4 DISCIPLINAR Y PROFUNDIZACIÓN TEORÍA SOCIOLÓGICA I 4 DISCIPLINAR Y PROFUNDIZACIÓN UNIVERSIDAD Y ENTORNO 3 GENERAL SEGUNDO SEMESTRE ANTROPOLOGÍA CULTURAL 4 DISCIPLINAR Y PROFUNDIZACIÓN EPISTEMOLOGÍA DE LAS CIENCIAS SOCIALES 4 DISCIPLINAR Y PROFUNDIZACIÓN HISTORIA MODERNA 4 DISCIPLINAR Y PROFUNDIZACIÓN INTRODUCCIÓN A LA GEOMÁTICA 3 DISCIPLINAR Y PROFUNDIZACIÓN PROYECTO PEDAGÓGICO I 4 INTERDISCIPLINAR TERCERO SEMESTRE ECONOMÍA GENERAL 4 DISCIPLINAR Y PROFUNDIZACIÓN GEOGRAFÍA HUMANA 3 DISCIPLINAR Y PROFUNDIZACIÓN HISTORIA CONTEMPORÁNEA 4 DISCIPLINAR Y PROFUNDIZACIÓN PROYECTO PEDAGÓGICO II 4 INTERDISCIPLINAR SOCIO-HUMANÍSTICA I 3 GENERAL CUARTO SEMESTRE ELECTIVA INTERDISCIPLINAR I 4 INTERDISCIPLINAR PROYECTO PEDAGÓGICO III 4 INTERDISCIPLINAR TEORÍA SOCIOLÓGICA II 4 DISCIPLINAR Y PROFUNDIZACIÓN TEORÍA Y MÉTODO DE LA GEOGRAFÍA 4 DISCIPLINAR Y PROFUNDIZACIÓN TEORÍA Y MÉTODO DE LA HISTORIA 4 DISCIPLINAR Y PROFUNDIZACIÓN QUINTO SEMESTRE ELECTIVA INTERDISCIPLINAR II 4 INTERDISCIPLINAR ETNOLOGÍA DE AMÉRICA Y COLOMBIA 3 DISCIPLINAR Y PROFUNDIZACIÓN GEOGRAFÍA POLÍTICA I 4 DISCIPLINAR Y PROFUNDIZACIÓN HISTORIA DE AMÉRICA I 4 DISCIPLINAR Y PROFUNDIZACIÓN PROYECTO PEDAGÓGICO IV 4 INTERDISCIPLINAR SEXTO SEMESTRE ELECTIVA INTERDISCIPLINAR III 4 INTERDISCIPLINAR GEOGRAFÍA POLÍTICA II 4 DISCIPLINAR Y PROFUNDIZACIÓN HISTORIA DE AMÉRICA II 4 DISCIPLINAR Y PROFUNDIZACIÓN METODOLOGÍA DE LA INVESTIGACIÓN 3 DISCIPLINAR Y PROFUNDIZACIÓN TICS Y AMBIENTES DE APRENDIZAJE 3 INTERDISCIPLINAR SEPTIMO SEMESTRE ARQUEOLOGÍA Y PATRIMONIO CULTURAL 3 DISCIPLINAR Y PROFUNDIZACIÓN ELECTIVA INTERDISCIPLINAR IV 4 INTERDISCIPLINAR GEOGRAFÍA FÍSICA DE COLOMBIA 3 DISCIPLINAR Y PROFUNDIZACIÓN HISTORIA DE COLOMBIA I 3 DISCIPLINAR Y PROFUNDIZACIÓN SEMINARIO DE INVESTIGACIÓN I 4 INTERDISCIPLINAR SOCIO-HUMANÍSTICA II 3 GENERAL OCTAVO SEMESTRE DIDÁCTICA DE LAS CIENCIAS SOCIALES I 3 DISCIPLINAR Y PROFUNDIZACIÓN ECONOMÍA COLOMBIANA 3 DISCIPLINAR Y PROFUNDIZACIÓN ELECTIVA DE PROFUNDIZACIÓN I 3 DISCIPLINAR Y PROFUNDIZACIÓN GEOGRAFÍA HUMANA DE COLOMBIA 3 DISCIPLINAR Y PROFUNDIZACIÓN HISTORIA DE COLOMBIA II 3 DISCIPLINAR Y PROFUNDIZACIÓN SEMINARIO DE INVESTIGACIÓN II 4 INTERDISCIPLINAR NOVENO SEMESTRE DIDÁCTICA DE LAS CIENCIAS SOCIALES II 3 DISCIPLINAR Y PROFUNDIZACIÓN ELECTIVA DE PROFUNDIZACIÓN II 3 DISCIPLINAR Y PROFUNDIZACIÓN ETICA Y POLÍTICA 4 GENERAL SEMINARIO DE INVESTIGACIÓN III 3 DISCIPLINAR Y PROFUNDIZACIÓN SOCIOLOGÍA COLOMBIANA 3 DISCIPLINAR Y PROFUNDIZACIÓN DECIMO SEMESTRE PRÁCTICA PEDAGÓGICA INTEGRAL 5 DISCIPLINAR

PROFESORADO: 33 profesores

COSTA RICA

UNIVERSIDAD DE COSTA RICA

ESCUELA DE GEOGRAFÍA
FUNDADA EN: 1974
PRIMER PLAN DE ESTUDIOS EN GEOGRAFÍA: 1956
GRADOS QUE OFRECE: Bachillerato, Licenciatura, Maestría Académica en Geografía y Maestría profesional en Sistemas de Información y Teledetección (UCR-UNA)
ESTUDIANTES ACTUALES: Bach., 250; Lic., 50; M.Sc., 50
TOTAL DE ESTUDIANTES ATENDIDOS EN 2014: 2224
DIRECTORA: Dra. Isabel Avendaño Flores, catedrática

PARA MÁS INFORMACIÓN ESCRIBIR A: ***Isabel Avendaño Flores***, Escuela de Geografía, Facultad de Ciencias Sociales, San Pedro de Montes de Oca, San José, Costa Rica. Apdo. 2060. Teléfono (506) 2511 6402, Fax (506) 2234 7246, E-mail: isabel.avendano@ucr.ac.cr, geografia@ucr.ac.cr Internet: http://www.geografia.fcs.ucr.ac.cr/

La enseñanza de la Geografía en Costa Rica inició en la Universidad de Costa Rica. Comenzó como la Sección de Geografía e Historia adscrita a la Facultad de Filosofía y Letras en donde se ofrecía la Licenciatura en Geografía e Historia para formar profesores en la enseñanza de la Geografía e Historia en las escuelas y colegios. En ese momento se ofrecían cursos de geografías regionales.

Hacia 1946, la Sección de Geografía e Historia se elevó al rango de Departamento y pasó a formar parte de la nueva Facultad de Ciencias y Letras. Esta nueva Facultad ofrecía la licenciatura en Ciencias y Letras y se indicaba en el Diploma la especialidad según el Departamento: Geografía e Historia, Filosofía, Filología, Lingüística, Literatura, Biología, Química, Física y Matemáticas. Para 1956, el Consejo Universitario aprobó el primer plan de estudios de la carrera de Geografía e Historia. Hacia 1973, el Consejo Universitario aprobó el plan de estudios de Bachillerato y Licenciatura en Geografía, con lo cual los y las estudiantes tenían por primera vez la oportunidad de recibir títulos exclusivos en Geografía, separados de los de Historia. Además, se podía elegir entre dos énfasis: Humano o Físico.

Para el año de 1974, la Sección de Geografía se convierte en Departamento bajo la dirección del profesor Rafael Obregón Loría y, junto con el Departamento de Historia forman la Escuela de Geografía e Historia. A la vez en este año, dicha escuela pasa a formar parte de la nueva Facultad de Ciencias Sociales. Dos años más tarde, 1976 y para 1977, se graduaron los primeros estudiantes con el grado de bachillerato y licenciatura en Geografía. Hacia el año de 1990 se abre la Maestría Centroamericana en Geografía y unos años más tarde, el departamento de Geografía logra independizarse de Historia para convertirse en la Escuela de Geografía (1997).

Desde que existe la carrera de Geografía se ha establecido una intensa relación con comunidades, instituciones públicas y privadas por medio de trabajos comunales, investigaciones y estudios de impacto ambiental, ordenamiento territorial y cartografías temáticas.

PROGRAMA:
Para ingresar a la Universidad de Costa Rica, los estudiantes nacionales deben hacer una prueba de aptitud académica. Para

aplicación desde el extranjero, existen convenios con algunas universidades, los instructivos para ingresar desde otros países pueden verse en la página
http://www.oaice.ucr.ac.cr/prog_intercambio_acad.htm.

El Programa de Geografía se enmarca en las características de una universidad humanística, el cual busca llevar a un mejor entendimiento del espacio geográfico, situarse ante las problemáticas actuales y desembocar en la acción y ejecución de medidas de ordenamiento y gestión territorial aplicando modernas herramientas geoespaciales. Existe un bloque de materias dedicadas al análisis e interpretación regional, de tal forma que se imparten geografías regionales para Costa Rica, América Central y el Caribe, Norte y Suramérica, y el Mundo. Materias como geografía de América Latina se ofrecen como materias extracurriculares. También, se incursiona en temáticas de carácter ambiental y a la vez, con mirada holística en cursos como Ecología Tropical, Gestión Ambiental, Ordenamiento del Territorio y Geografía del Paisaje para bachillerato y en el plan de licenciatura con Manejo de Áreas Silvestres, Percepción del Ambiente y ordenamientos de o en: cuencas hidrográficas y ambientes costeros, espacios turísticos, urbano y del espacio agrícola. En ocasiones se ofrecen cursos opcionales como Geografía de la Salud y Geomorfología Litoral. Para obtener el título de licenciatura en Geografía y ejercer como profesional se requiere de un total de 159 créditos distribuidos 10 ciclos lectivos o semestres. Asimismo, la Universidad de Costa Rica posee el requisito de 300 horas de trabajo comunal universitario.

Se cuenta con dos maestrías (académica y profesional), la académica constituye la oportunidad para estudiantes de geografía y de ciencias afines de especializarse en materia de estudios territoriales, tanto aplicados al Ordenamiento como orientados hacia la producción académica de conocimiento. Se creó en 1985 por acuerdo del Consejo Nacional de Rectores (CONARE), con el fin de impulsar el desarrollo de las ciencias geográficas en Costa Rica y el resto de América Central. En 1992 se regionalizó el programa a través de la Confederación Universitaria de Centroamérica (CSUCA).

La Maestría profesional en Sistemas de Información Geográfico y Teledetección es un programa especializado multidisciplinario, ofrecido en forma compartida por la Universidad de Costa Rica (UCR) y la Universidad Nacional de Costa Rica (UNA). Desarrolla temáticas especializadas en teledetección, fotogrametría, geodesia, cartografía, modelado de procesos biofísicos, diseño e implementación de bases de datos espaciales, programación de aplicaciones en SIG, y da una visión administrativa en gerencia y gestión de proyectos de SIG. El director de ambos programas es el Dr. Rafael Arce Mesén.

PLANTA DOCENTE (2014-2015)

Álvarez Vargas, Lisbeth –MSc — Costa Rica. Gestión del Riesgo en Desastres y Atención de Emergencias.
Arce Mesén, Rafael -Dr. Canadá — Cartografía Digital, Sistemas de Información Geográfica
Artavia Rodríguez, Guillermo -MSc. Costa Rica — Biogeografía. Estudios doctorales en Ciencias-UCR
Avendaño Flores, Isabel -Dra. M.Sc. en Población, Dra. Costa Rica — Sociedad y Cultura
Bergoeing Guida, Jean Pierre -Dr. Francia — Geomorfología
Birkel, Christian -Dr. Alemania y Escocia — Hidrología
Brenes Quesada, Guillermo -D.E.A. Francia — Geomorfología
Castillo Vásquez, Roberto -Dr. USA — Geografía Cultural y Rural
Cortés Granados, Víctor -M.Sc. Bélgica — Geología y Geomorfología del Cuaternario y Dr. Costa Rica. Sistemas de Producción Agrícola Tropical Sostenible
Cortés Ramos, Alberto –Dr. Inglaterra — Ciencias Políticas y Geografía
Durán Segura, Luis Armando -MSc. Costa Rica y Colombia — Antropología y Estudios Latinoamericanos
Girot Pignot, Pascal -MSc. Francia — Geografía
Granados Chaverri, Carlos L., Dr. USA — Geografía Política y Cultural
Gutiérrez Rojas, Rafael -MSc. Costa Rica — Geografía y Turismo
León Alfaro, Yazmín -Lic. Costa Rica
Lizano Araya, Melvin -MSc. Costa Rica, Sistemas de Información Geográfica y Teledetección
Martínez Barbáchano, Rubén –Lic. España
Meléndez Dobles, Silvia –Bach. En Historia, Bach. Geografía, MSc. Costa Rica — Geografía. Estudios doctorales en Historia (UCR)
Morúa Pérez, Marlon -Lic. Costa Rica
Ramírez Moreira, Olman -MSc. Costa Rica — Estadística
Rodríguez Echavarría, Tania -Dra. Francia-Ciencias Políticas y Geografía
Solano Mata, Francisco -MSc. Costa Rica — Geografía
Zúñiga Venegas, William -Dr. España — Geografía del Paisaje

PROFESORA EMÉRITA

Hall Carolyn, Dra. Inglaterra — Geografía Histórica

DOCENTES REALIZANDO DE ESTUDIOS DE POSGRADO (2015)

Acosta Schnell, Sabrine —Maestría en Brasil y Doctorado en Francia (2012-2018), especialidad: Ordenamiento Territorial
Artavia Rodríguez, Guillermo -MSc. Doctorado en UCR (2014-2018), especialidad: Biogeografía
Hernández Meza, Andrey -MSc. Doctorado en Francia (2012-2016), especialidad: Geografía Urbana
Vargas Picado, Huberth –Maestría y doctorado en Francia (2013-2018), especialidad: Geografía Económica y Estudios Regionales
Cascante Campos, Alejandro -Lic. Maestría y doctorado en Estados Unidos (2014-2020), especialidad: Educación Geográfica.

PLANTA PROFESIONAL

Fernández Arce, Mario. –Dr. México — Geología
Hernández Díaz, Ana Lucía -Licda. Costa Rica — en Ciencias Políticas, Egresada Administración Universitaria
Masís Campos, Ramón –MSc. Costa Rica — Sistemas de Información y Teledetección
Reyes Chaves, Jonnathan –MSc. Costa Rica — Sistemas de Información y Teledetección
Solano Mata, Francisco -MSc. Costa Rica — Geografía

UNIVERSIDAD NACIONAL DE COSTA RICA

ESCUELA DE CIENCIAS GEOGRÁFICAS
DATE FOUNDED: 1973
GRADUATE PROGRAM FOUNDED: 2003 (Master)
GRADUATE PROGRAM FOUNDED: 2007 (Master)
DEGREES OFFERED: Diplomado en Cartografía digital, Bachillerato, Licenciatura, 2 Maestrados
GRANTED 2014-2016: Diplomado 29, Bachillerato 64 y Licenciatura 34
STUDENTS: Mestrado, 20
CHAIR: Master Lilliam Quirós Arias
DEPARTMENT ACADEMIC PROGRAM COORDINATOR: Doctor Gustavo Barrantes Castillo

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Master Lilliam Quiros Arias lquiros@una.cr (Chair) or Doctor Gustavo Barrantes Castillo gbarrantes@gmail.com Graduate Program Coordinator), Escuela de Ciencias Geográficas Universidad Nacional de Costa Rica. Heredia, Costa Rica. Apartado Postal 86-3000, Phone Number: (506) 2277- 3283; Fax Number: (506) 22-61 0028; http:// http://www.geo.una.ac.cr// e-mail address: geograf@una.cr.

PROGRASM E INSTALACIONES DE INVESTIGACIÓN:
incluye áreas de trabajo y proyectos asociados (1) Programa en Sistemas de Información Geográfica y Teledetección (PROSIGTE), Fortalecimiento del Programa de Maestría Interuniversitaria en Sistemas de Información Geográfica (SIG) Y Teledetección (DT) (2) Programa Gestión de Actividades y Proyectos del Área de Ordenamiento Territorial y Planes Reguladores, Planes reguladores cantonales (Poás, Siquirres, Upala, Los Chiles, Guatuso y Esparza). (3) Área de paisaje y territorio: Sinergias entre Paisaje y Turismo en Centroamérica: el caso de Tamarindo, Costa Rica; San Juan del Sur, Nicaragua y Roatàn, Honduras. Corredor Verde Fluvial para el Área Metropolitana de Heredia. II Etapa. (4) Área de riesgos naturales: Utilización de Modelaje Computacional y Sistemas de Información Geográfica como Herramientas para la Gestión del Riesgo por Caída de Ceniza Proveniente del Volcán Irazú y el Ordenamiento Territorial en el Valle Central. Aproximación de vulnerabilidades y amenazas en cantones selectos para la observación y diagnóstico de potencial a desastres (5) Manejo de cuencas y recursos asociados: Balance hídrico de la región central de costa rica. El caso de la micro cuenca del río Bermúdez. Programa Integrado de Protección y Manejo Sostenible del Recurso Suelo (6) Servicios de información y divulgación: Servicio de mapoteca virtual para la incorporación de las TIC en las actividades académicas. Revista Geográfica de América Central (7) Programa de Acreditación: Seguimiento a la calidad en la carrera de Ciencias Geográficas con énfasis en Ordenamiento del Territorio.

PLAN ACADEMICO, REQUISITOS DE ADMISION, AYUDA FINANCIERA:
Dos carreras de grado: Carrera de Ciencias Geográficas con énfasis en ordenamiento del territorio y el Diplomado en Cartografía y Diseño Digital. Dos carreras de posgrado; Maestría en Gestión de Turismo de Naturaleza y Maestría en Sistemas de Información Geográfica y Teledetección. II Ciclos anuales de 17 semanas. Haber aprobado examen de admisión. El plan de Estudio en la CCG es de modalidad presencial, combina horas contacto (que a su vez en la CCG se divide en hora laboratorio, horas de campo, trabajo práctico) y las horas de estudio independiente. Es una carrera de tiempo completo. La Universidad ofrece diferentes modalidades de becas o ayudas económicas. la carrera está acreditada (1 de julio de 2010) por el sistema nacional de acreditación de la educación superior (SINAES), agencia acreditada a nivel mundial por la Red Internacional de Agencias de Aseguramiento de la Calidad de la Educación Superior, conocida por sus siglas en inglés INQAAHE. Mayor información planes de estudio y duración http://www.geo.una.ac.cr/.

FACULTY:
Alfaro Chavarría Consuelo, Máster — Cartografía y Enseñanza de la Geografía
Alfaro Sánchez Marvin, Licenciado — Cartografía, Sistemas de Información Geográfica
Alvarado Sánchez Meylyn, Máster — Desarrollo Rural Comunitario y Licda. Educación Ambiental y Turismo
Araya Ramírez Iliana, Licenciada — Geografía Humana y Enseñanza de la Geografía
Arrieta Chavarría Omar, Máster — Geografía Humana, Ordenamiento Territorial y Epistemología de la Geografía
Arroyo González Luis Nelson, Máster — Recursos Naturales, Fotointerpretación y Desastres Naturales
Barrantes Castillo Gustavo, Máster — Geografía Física, Geografía física, desastres naturales y geomática
Cedeño Montoya, Bepsy, Máster — Sistemas de información geográfica y Teledetección
Hernando Echeverría Ligia, Licenciada — Geografía Física, Hidrología y manejo de cuencas
Miranda Álvarez Pablo, Máster — Ordenamiento Territorial, Turismo, Estadística
Moraga Peralta Julio Cesar, Candidato a Doctorado — Sistemas de Información Geográfica y Teledetección
Morera Beita Carlos, Doctor — Geografía Física, Planificación ambiental y turismo
Orias Arguedas Lidia, Master — Geografía Humana, Geografía de los Transportes
Orozco Vilches María Elena, Máster — Geografía Humana, Evaluación y Formulación de Proyectos
Greyty Quesada Thompson, Licencaida — Planificación territorial, Planificación ambiental
Quirós Arias Lilliam, Máster — Geografía Humana, Desarrollo Rural
Rivera Jiménez Sergio, Máster — Abogado con especialidad en Legislación ambiental
Rodríguez Soto Francisco, Máster, Candidato a Doctorado — Planificación urbano regional y Sistemas de Información Geográfica
Romero Vargas Marilyn, Doctora — Planificación territorial, paisaje y conservación
Ruiz Hernández Amalia, Licenciada — Geografía física, Cartografía, Sistemas de Información Geográfica
Sandoval Murillo Luis, Licenciado — Geógrafo, Paisaje y Conservación, Sistemas de Información Geográfica
Solano Mayorga Manuel A., Máster — Sistemas de Información Geográfica y Teledetección
Vega Ramírez Mauricio, Máster — Geografía Humana, Ordenamiento territorial, Gestión Municipal
Adolfo Quesada, Geógrafo, Máster — Geomorfología
Daniel Avendaño Leadem — Geógrafo, Maestría en Sustentabilidad y desarrollo

CUBA

UNIVERSIDAD DE LA HABANA

FACULTAD DE GEOGRAFÍA
FUNDADA EN: 1979
TÍTULO OTORGADO: Licenciado en Geografia
DECANA: Dra. Nancy Pérez Rodríguez
SITIO WEB: http://geo.uh.cu/site/
PROFESIONALES QUE HA PRODUCIDO LA CARRERA: 1200 egresados

Objetivos de la carrera:
Constituir un elemento indisolublemente ligado a la formación del future profesional. Propiciar el desarrollo y calificación del personal docente para las investigaciones. Garantizar el uso del potencial científico que labora y estudia en la facultad para la solución de tareas específicas del desarrollo económico y social del país. Por ello se ha puesto el énfasis en las investigaciones de carácter aplicado, vinculadas a la solución de problemas sociales, investigaciones que relacionan los trabajos técnicos fundamentales con la práctica, lo que ha sido una vía efectiva y operativa para introducir los resultados de la investigación en la economía, la producción y la organización social. Pueden diferenciarse varias etapas en la consolidación del trabajo científico investigativo.

También se imparten especialidades como Cursos, Diplomados, Maestrías y Doctorados.
Maestrías:
Maestría en "Geografía, Medio Ambiente y Ordenamiento Territorial", la que comenzó a ofrecerse a partir del curso académico 1995-1996, la que tuvo desde sus inicios por objetivo, la formación de egresados en universitarios con una alta competencia profesional al más alto nivel científico-técnico y con gran rigor académico.

Maestría en "Geografía Militar", en el curso académico1997-1998, y que tuvo una duración de dos años. Con un desarrollo exitoso,

ejerció una amplia repercusión en la formación de cuadros y oficiales de las FAR, lo que permitió que se ampliara y fortalecieran los vínculos con esta institución.

Diplomados:
Diplomados en "Geoecología de los Paisajes'', así como el diplomado en Medio Ambiente y Ordenamiento Territorial'' que comenzó a ejecutarse a partir de Septiembre del 2000. Se han impartido cuatro diplomados en distintas instituciones, relacionadas con el tema de los SIG.

Esta facultad a creado 42 nuevos doctores, que han contribuido con el desarrollo del país.

Profesores de la carrera:
Actualmente la Facultad consta con un claustro integrado por 28 profesores y 2 adiestrados, dedicados a la docencia y a la investigación, de ellos 17 poseen el Título de Doctores en Ciencias Geográficas y 10 el de Master en Geografía Medio Ambiente y Ordenamiento Territorial.

ECUADOR

CENTRO PANAMERICANO DE ESTUDIOS E INVESTIGACIONES GEOGRÁFICAS, CEPEIGE

POINT OF CONTACT: Ing. Ricardo Urbina Cepeda, Director (e). E- mail: cepeige@cepeige.org. Website: www.cepeige.org Teléfono (593) 02 2237 725, 02 2237 733, 02 2541 200. Fax: (593) 02 2509 122

FOR FURTHER INFORMATION WRITE TO: CEPEIGE: Seniergues E4-676 y Gral. Paz y Miño, 3er. Piso del Edificio del Instituto Geográfico Militar. Quito – Ecuador

OBJETIVO: El CEPEIGE tiene por objetivo primordial difundir y estimular el conocimiento de las ciencias geográficas en el Continente, mediante la organización de cursos para post-graduados, realización de investigaciones, organización de eventos científicos especializados, edición de textos y documentos geográficos, y la cooperación con organismos nacionales e internacionales relacionados con su finalidad. El CEPEIGE, en el marco de sus atribuciones, procura la permanente actualización de los conocimientos geográficos mediante la implementación de sus instalaciones y laboratorios con los recursos modernos que demanda la Nueva Geografía.

ACTIVIDADES PRINCIPALES:
CURSOS INTERNACIONALES DE GEOGRAFÍA APLICADA
Se realizan con el auspicio del Instituto Panamericano de Geografía e Historia, IPGH, y el Aval Académico de una Universidad del Ecuador; y tienen la categoría de eventos de especialización a nivel de posgrado.

Están dirigidos a profesionales de los países americanos vinculados con las ciencias geográficas, y tratan cada año sobre diferentes temas de actualidad de la Geografía Aplicada, en la modalidad presencial y actualmente con énfasis en la modalidad Online. La dirección del evento está a cargo de un Profesor Principal Invitado que es un experto internacional especializado en el tema, con la colaboración de profesionales ecuatorianos y extranjeros.

Su principal objetivo es especializar a los participantes en aspectos relevantes de la Geografía Aplicada para optimizar su papel de multiplicadores en los campos de la planificación, investigación y docencia geográficas.

El período de duración es de siete semanas a tiempo completo, en la modalidad presencial y de tres meses en la modalidad Online, y se desarrollan entre los meses de junio y diciembre de cada año. En la primera fase se imparte instrucción teórico-conceptual sobre el tema central del evento y sus disciplinas de apoyo, mediante la modalidad de clases formales, conferencias especializadas y prácticas de campo. La segunda comprende la realización de trabajos de investigación por grupos en el campo y el laboratorio, y la elaboración de una minitesis como requisito para optar por el Certificado de Aprobación.

CURSOS CORTOS PERMANENTES:
En el transcurso del año se dictan cursos de especialización, para la comunidad panamericana tales como:

- CATASTRO Y SIG APLICADOS
- GESTIÓN TERRITORIAL CON HERRAMIENTAS DE SIG
- GPS BÁSICO Y AVANZADO
- MODELAMIENTO AMBIENTAL
- MANEJO DE SENSORES REMOTOS & SISTEMAS DE INFORMACIÓN GEOGRÁFICA, CON SOFTWARE LIBRE
- GEOESTADÍSTICA
- DISEÑO E IMPLEMENTACIÓN DE VISUALIZADORES DE MAPAS
- PROCESAMIENTO DIGITAL DE IMÁGENES
- SIG APLICADO A LAS TELECOMUNICACIONES, REDES DE TELEFONÍA, TV POR CABLE, Y FIBRA ÓPTICA, INFRAESTRUCTURA.
- SIG APLICADO A LA GESTIÓN DE AGUA POTABLE, ALCANTARILLADO, AGUAS LLUVIAS Y RIEGO.
- ARCGIS 10, MODEL BUILDER, CREACIÓN Y APLICACIÓN DE MODELOS ESPACIALES MULTITEMÁTICOS.
- MARKETING TERRITORIAL
- APLICACIONES ESPACIALES PARA LA GESTIÓN AMBIENTAL
- SIG APLICADO AL DESARROLLO TERRITORIAL
- MANEJO Y ESPACIALIZACIÓN DE DATOS CENSALES A TRAVÉS DE SIG
- SISTEMAS DE INFORMACIÓN GEOGRÁFICA APLICADO A RIESGOS NATURALES
- PROCESAMIENTO DIGITAL DE IMÁGENES SATELITALES PARA LEVANTAMIENTO DE COBERTURA Y USO DE LA TIERRA. UTILIZANDO SOFTWARE LIBRE
- APLICACIONES ESPACIALES DE ALERTA TEMPRANA A EMERGENCIAS NATURALES
- INFRAESTRUCTURA DE DATOS ESPACIALES, METADATOS Y USABILIDAD

SISTEMAS DE INFORMACIÓN GEOGRÁFICA, BÁSICO, INTERMEDIO Y AVANZADO, como una especialidad del CEPEIGE dedicada a instituciones públicas, privadas y universidades

PONTIFICIA UNIVERSIDAD CATÓLICA DEL ECUADOR

FACULTAD DE CIENCIAS HUMANAS
ESCUELA DE CIENCIAS GEOGRÁFICAS
FUNDADA EN: 1989
GRADOS QUE OFRECE: Ingeniería Geográfica y Maestría
ESTUDIANTES ACTUALES: Ingeniería, 320; Maestría, 32
DIRECTOR: Mtr. Galo Manrique

PARA MAYOR INFORMACION ESCRIBIR A: Galo Manrique C., Escuela de Ciencias Geográficas, Facultad de Ciencias Humanas, Av. 12 de Octubre 1076 y Roca, Quito-Ecuador. Apartado Postal 17-01-2184. Teléfono: 593-2-2991700 ext. 11979 Directo. E-mail: gmanriquey@puce.edu.ec.

PROGRAMAS: La Escuela de Ciencias Geográficas de la PUCE forma geógrafos con competencias para ejecutar actividades profesionales relacionadas con la interacción de los seres humanos y la naturaleza física, con énfasis en la visión territorial y ambiental. Para ello, desarrolla en los estudiantes habilidades intelectuales de análisis, síntesis y reflexión sobe los espacios geográficos. Parte importante del pensum está orientada a lograr un dominio del manejo de las técnicas de análisis espacial para su aplicación en la planificación, el ordenamiento territorial y la gestión ambiental.

Ingeniería Geográfica y Planificación territorial: Esta carrera forma profesionales preparados para diferenciar y analizar los tipos de ocupación del espacio, apoyándose en fotografías aéreas, imágenes de satélite, trabajo de campo y cartografía. Su mayor fortaleza consiste en estudiar las relaciones sociedad – naturaleza.

Este profesional está en capacidad de:
- Administrar y ordenar adecuadamente los espacios naturales y geográficos.
- Conocer las dinámicas de los paisajes naturales
- Establecer modelos matemáticos para estudiar tendencias y escenarios de ocurrencia de tales fenómenos
- Manejar técnicas de análisis espacial y conocer las bases legales y reglamentarias relacionadas con su especialidad.
- Coadyuvar a detectar, analizar y sugerir las medidas preventivas y de mitigación de algún evento natural que ponga en riesgo a la sociedad.
- Intervenir en la planificación y en el manejo de áreas protegidas, recursos naturales, agro ecosistemas y desarrollo sustentable, principalmente a través de procesos de planificación, diseño de sistemas de monitoreo y control del espacio y del medio ambiente.

Ingeniería Geográfica y gestión ambiental: Esta carrera forma profesionales preparados para diferenciar y analizar las condiciones ambientales del desarrollo humano y la ocupación del territorio. Su trabajo se realiza con el apoyo de fotografías aéreas, imágenes de satélite, trabajo de campo y cartografía asignaturas instrumentales que apuntalan su sólida formación en Ciencias de la Tierra, Ciencias Ambientales y Ciencias Sociales, las que constituyen, propiamente, el campo de su actividad profesional.

Su mayor fortaleza consiste en estudiar las relaciones sociedad – naturaleza, los impactos ambientales y la gestión del territorio y del ambiente, todo esto concebido como un todo holístico que posibilita la vida del Planeta y el desarrollo de la humanidad.

Este profesional está en capacidad de:
- Realizar la gestión adecuada del ambiente, principalmente de sus componentes naturales.
- Realizar la gestión adecuada del territorio, en sus diferentes niveles y jurisdicciones, principalmente en sus componentes jurídico-organizacionales y sociales, relacionándolos con los ambientales (naturales).
- Entender las dinámicas de los paisajes geográficos y realizar las adecuaciones y gestión que sean necesarias.
- Establecer modelos matemáticos para estudiar tendencias y escenarios de ocurrencia de tales fenómenos.
- Manejar técnicas de análisis espacial para la gestión ambiental y territorial.
- Conocer y aplicar las bases legales, reglamentarias y de otro tipo, relacionadas con la gestión del ambiente y del territorio.
- Participar en la identificación, análisis prevención y mitigación de riesgos provenientes de eventos naturales, así como de los riesgos que deriven de las actividades humanas.
- Intervenir en gestión de recursos naturales de todo tipo, de las áreas protegidas, de los agro ecosistemas, sistemas urbanos y del desarrollo sustentable, en general, principalmente a través de procesos de planificación, diseño de sistemas de monitoreo, evaluación y auditorías ambientales y control del medio ambiente y del territorio.
- Intervenir proactivamente en la administración pública del medio ambiente y del territorio nacional mediante su visión holística, integrada e integradora de los componentes naturales, sociales, económicos y normativos de la nación.

Maestría en Desarrollo Regional y Planificación Territorial.
Este programa presencial, se creó por Resolución del CONESUP en el 2006 y tiene por objetivo formar profesionales que logren un dominio de los conceptos metodologías y herramientas de la planificación participativa del territorio para el fomento del desarrollo regional y local, en términos de sustentabilidad.

La estructura académica de este programa contempla módulos sobre: aspectos jurídicos y sociales; técnicas para diagnósticos, cartografía y planificación; aspectos ambientales; aspectos socioeconómicos; enfoque integrado de la—planificación; seminarios temáticos; práctica de campo; y práctica de tesis.

Mayor información del programa de Maestría se puede obtener en la página web de la PUCE o escribiendo a MSc. Azucena Vicuña (avicunaj@puce.edu.ec), Coordinadora del mismo.

Profesores/as: Se indica el nombre, áreas de interés o materias que dicta:

Sheika Aragundi, Ph.D.—Areas Protegidas, Ecología, Biogeografía
Jorge Campaña, Lic.—Desarrollo Sustentable, Impactos Ambientales, Educación Ambiental
Felipe Valdez Master—Sistemas de Información Geográfica, Cartografía Básica
Fredy López, MSc.—Desarrollo Sustentable, Fotointerpretación, Biogeografía, Geografía Física
Shopia Loayza, MSc.—Edafología
Galo Manrique, Mag.—Geología, Geomorfología, Riesgos Naturales, Cuencas Hidrográficas
Milton Maya—Econ, Economía
Olga Mayorga, MSc.—Planificación Local y Regional, Sistemas de Información Geográfica y Análisis Espacial
Monserrath Mejía, Mag.—Sistemas de Información Geográfica, Cartografía Estadística, Bases de Datos
Santiago Mena, MSc.—Percepción Remota, Cartografía Automatizada
Carlos Nieto, Ph.D.—Agroecología, Recursos Naturales; Proyectos
Franklin Cumbal, Master—Estadística
Aníbal Rovalino, Lic.—Meteorología e Hidrología
Patricio Solís, Mtr.—Geografía Rural. Impactos Ambientales
Soledad Vásquez, Mgs.—Espacio y Sociedad, Cartografía Temática
Azucena Vicuña, MSc.—Geografía de la Población, Demografía, Geografía Urbana
Cristina Rosero, Master—Legislación Ambiental
Svetlana Zavgorodniaya, Ph.D.—Geología, Geomorfología, Ordenamiento Territorial, Riesgos Naturales
Jenny Zamora MSc. —Geología geomorfología

JAMAICA

UNIVERSITY OF THE WEST INDIES, MONA

DEPARTMENT OF GEOGRAPHY AND GEOLOGY
CHAIR: David Barker
FOUNDED: 1961 (Geology), 1965 (Geography)
DEGREES OFFERED: BA, BSc, BEd, MPhil, MSc, PhD

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Geology, Kingston 7, Jamaica. Telephone: (876) 927-2728/2129. Fax: (876) 977-6029. Email: geoggeol@uwimona.edu.jm;
Web: http://www.mona.uwi.edu/geoggeol/.
Head of Department: Professor David Barker (email: david.barker@uwimona.edu.jm).

PROGRAMS:
The University of the West Indies has campuses in Jamaica (Mona), Trinidad (St. Augustine), and Barbados (Cave Hill). Geography and Geology are only offered as degree-level subjects at both the undergraduate and graduate levels (BA, BSc, BEd, MPhil, MSc, and PhD) at Mona in Jamaica (the St. Augustine campus provides a recently introduced BSc in Geography). Undergraduate students are attracted from across the English-speaking Caribbean, although the largest number of students typically comes from Jamaica. Further information in relation to the courses offered by the department is also listed on the departmental website noted above.

ACADEMIC FACULTY:
Geography
Dr. David Barker, Professor and Head of Department — Agricultural Geography
Dr. David Dodman, Lecturer — Urban Geography
Dr. Savitha Ganapathy — Biogeography, Forest Ecology
Dr. Susan Mains, Lecturer — Cultural and Urban Geography
Dr. David Miller, Lecturer — Geomorphology, Quaternary Science
Dr. Balfour Spence, Lecturer — Environmental and Disaster Management

Geology
Mr. Rafi Ahmad, Lecturer — Structural and Environmental Geology, Hazards Mapping
Dr. Trevor Jackson, Professor — Igneous Petrology
Dr. Arpita Mandal — Hydrology, Applied Geology
Dr. Simon Mitchell, Professor — Sedimentary Geology, Rudist Palaeontology
Dr. Edward Robinson, Emeritus Professor — Marine Geology, Physical Geology, Foraminiferal Palaeontology
Dr. Thomas Stemann, Lecturer — Palaeontology

RESEARCH UNITS:
Disaster Studies Unit
Mr. Rafi Ahmad, Lecturer

Earthquake Unit
Dr. Margaret Wiggins-Grandison, Research Fellow

Environmental Management Unit
Dr. Elizabeth Thomas-Hope, Professor

Marine Geology Unit
Dr. Edward Robinson, Emeritus Professor
Ms. Shakira Khan, Research Associate

JOURNALS:
Caribbean Geography
Caribbean Journal of Earth Science

ORGANIZATIONS:
Jamaican Geographical Society
Geological Society of Jamaica

MEXICO

CENTRO DE INVESTIGACIONES EN GEOGRAFIA AMBIENTAL, UNAM

TIPO DE INSTITUCION: Pública, académica
ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Investigación, SIG/cartografía
FECHA DE FUNDACION: 17 de Agosto de 2007
SITIO WEB: www.ciga.unam.mx

PARA MAS INFORMACION CONTACTAR: Dr. Gerardo Bocco Verdinelli, Director, UNAM-Campus Morelia Antigua Carretera a Pátzcuaro, 8701, Colonia Ex Hacienda de San José de la Huerta, C.P. 58190. Morelia, Michoacán, México. Telefono: 52 4433223865, Fax: 52 4433223880, gbocco@ciga.unam.mx

MISION DEL CENTRO: La misión del CIGA es contribuir a la planificación territorial para el manejo sustentable (aprovechamiento, conservación y restauración) de los recursos naturales en territorios específicos, mediante un programa integrado de investigación, docencia, vinculación y divulgación del conocimiento, con énfasis en la dimensión histórica y geográfica de la cuestión ambiental, en particular en la región centro-occidente del país (Mexico)

ESTRUCTURA Y ORGANIZACIÓN: La toma de decisiones en el CIGA opera con una Dirección y el Consejo Interno (CI, se reúne mensualmente) constituido por 7 miembros: los secretarios académico, técnico y el coordinador de docencia, designados por el director, tres representantes del personal académico (dos por los investigadores y uno por los técnicos académicos, que a su vez conforman la mesa directiva del Colegio del Personal Académico, misma que se reúne bimestralmente) y el director, quien preside el CI. Las comisiones dictaminadora y evaluadora operan como órganos de consulta (se reúnen cuatrimestralmente). Participamos puntualmente en el Consejo Técnico de la Investigación Científica y el Consejo Académico de Área de las Ciencias Sociales de la UNAM (www.unam.mx)

OBJECTIVOS: Los objetivos del CIGA, definidos en 2006 y mantenidos a la fecha, son: Realizar investigación científica de excelencia en el campo de la geografía ambiental, fortaleciendo los marcos conceptuales necesarios, en el contexto de la comprensión de la relación histórica entre sociedad-cultura-naturaleza, a partir de la perspectiva del análisis integrado del paisaje abordando temas de investigación emergentes y transversales. Desarrollar, en colaboración con otras dependencias académicas locales, nacionales e internacionales, programas de excelencia para la formación de recursos humanos Vincular las actividades de investigación y docencia con las necesidades concretas de resolución de problemas ambientales, planteadas por los sectores social, productivo y gubernamental, utilizando técnicas de investigación participativa y auspiciando sinergias entre grupos académicos y otros actores sociales, en particular, en la región centro-occidente del país.

PROGRAMAS QUE SE OFRECEN: El CIGA desarrolla su actividad en el marco de cuatro áreas de investigación (bajo la supervisión de la dirección y la secretaría académica) a las cuales se ligan líneas de investigación en torno a las relaciones sociedad-cultura-naturaleza desde un enfoque territorial. Estas áreas son: (a) Ciudad, Región y Ambiente (Ambientes Urbanos y Peri-urbanos, originalmente denominada Sustentabilidad Urbana y Regional) (b) Historia Ambiental, Poder y Territorio, (c) Ambientes Rurales, (d) Ciencia-Sociedad-Innovación. La entidad dispone de dos laboratorios adecuadamente equipados, uno para análisis de suelos y agua, y otro para análisis espaciales (percepción remota y sistemas de información geográfica); una unidad de cómputo; una unidad de vinculación; y un centro de documentación que forma parte de la red UNAM de bibliotecas. En docencia, el CIGA es entidad responsable del posgrado en Geografía de la UNAM (www.posgrado.unam.mx) y ofrece un programa de maestría en Manejo Integrado del Paisaje y un doctorado tutoral en Geografía (www.ciga.unam.mx)

EL COLEGIO DE MICHOACÁN

CENTRO DE ESTUDIOS DE GEOGRAFÍA HUMANA-CEGH
FECHA DE FUNDACION: 2002
PROGRAMAS DE ESTUDIO: Maestría
CONTACTO PARA PROGRAMA DE POSGRADO: Martha Chávez Torres, cegh@colmich.edu.mx
POSGRADOS OTORGADOS ANUALMENTE: 1
SITIO WEB: www.colmich.edu.mx

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Martha Chávez Torres, Coordinadora del CEGH, La Piedad, Michoacán, México, Telefono: (+52)3525256107 ext 2400, cegh@colmich.edu.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: Programs and research facilities: Since September 2004, the Research Center for Human Geography offers an M.A. Program in Human Geography that leads students to become familiar with contemporary issues related to socio-territorial development and related problems in Mexico and Latin America. Particular emphasis is placed on three research areas: a) process in landscapes; b) Socio-economic development, territorial transformation and environmental problems; and, c) Territory, politics practices and social organization.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Our installations in La Piedad, Michoacán, Mexico, provide the following facilities: a specialized library, fully-equipped classrooms, a computer laboratory, and work places for all students. Academic Program, admission requirements and financial aid: Beginning in September 2006, the Study Programs at El Colegio de Michoacán will operate on a Trimester basis (a total of 8 trimesters, or 2 years). During the first 4 Trimesters courses on the different fields of human geography (theoretical, methodological, technical issues) are offered. The remaining 4 trimesters are devoted to the preparation and realization of a field research-based thesis. CONACYT (Mexico's National Science and Technological Council) and El Colegio de Michoacán have a limited number of scholarships available to applicants. Requirements include obtaining a B.A. in Geography or in a related field in the Social Sciences.

PROFESORADO

Martha Chávez, Ph.D., Université de Corse Pascal Pauli, France — Space, culture and mobility

Virginie Thiebaut, Ph.D., University of Nancy, France — Process in Landscapes, Historical Geography and landscape transformation

Octavio González, M.A., Ph.D. Candidate, Center for Research and Higher Studies in Social Anthropology (CIESAS), Guadalajara, Mexico — Space, culture and mobility

Leticia Mejía, M.S., Ph.D. Candidate, National Autonomous University of Mexico — Socio-economic development and territorial transformation

Carlos Téllez, M.A., Ph.D. Candidate, National Autonomous University of Mexico — Socio-economic development and territorial transformation

Carlos, Herrejón Peredo, Ph.D., École des Hautes Études in Sciences Socials, Paris, France — Process in Landscapes, México history: institution and geography

Sara Barrasa García, Ph.D., Autonomous University of Madrid, Spain — Process in Landscapes, Ecology and Environment.

Octavio Montes, Ph. D. El Colegio de Michoacán A. C. Zamora, Michoacán, México — Territory, politics practices and social organization

INSTITUTO PANAMERICANO DE GEOGRAFÍA E HISTORIA (IPGH)

FECHA DE FUNDACIÓN: Febrero de 1928
SECRETARIO GENERAL: Rodrigo Barriga-Vargas

ESTRUCTURA Y ORGANIZACIÓN. Su estructura organizativa es la siguiente: Asamblea General, Consejo Directivo, Reunión de Autoridades, Secretaría General, Comisiones de Cartografía, Geografía, Historia y Geofísica, y Secciones Nacionales.

(i) La Asamblea General es su Órgano Supremo y tiene por misión fijar la política científica, administrativa y financiera del Instituto. (ii) El Consejo Directivo es el Órgano Panamericano del IPGH, tiene a su cargo ejercer las funciones de la Asamblea General, durante los intervalos entre las reuniones de ésta. (iii) La Reunión de Autoridades es el Órgano Rector y Coordinador de las actividades del Instituto entre las Reuniones del Consejo Directivo. (iv) La Secretaría General es el Órgano Central y Permanente del IPGH, responsable de la administración, la coordinación de las actividades de sus diversas instancias de gobierno, brinda la asistencia necesaria para el funcionamiento de los mismos, la ejecución de tareas que se le encomienden y vela por el cumplimiento de los acuerdos adoptados para la buena marcha del IPGH. El Secretario General es el representante del IPGH. (v) Las Comisiones son los Órganos encargados de promover el desarrollo científico y técnico de sus respectivos campos de acción en los Estados Miembros, así como de coordinar, estimular y supervisar los proyectos y otros acuerdos de investigación, aprobados por la Asamblea General o el Consejo Directivo. Existen cuatro Comisiones: Cartografía, Geografía, Historia y Geofísica; se subdividen en Comités y Grupos de Trabajo. (vi) Las Secciones Nacionales constituyen los organismos establecidos por cada Estado Miembro, para el cumplimiento de los fines del IPGH en el ámbito de sus respectivos países.

FINES: (i) Fomentar, coordinar y difundir estudios Cartográficos, Geográficos, Históricos y Geofísicos, así como los de sus ciencias afines y de interés para América. (ii) Promover y coordinar el avance científico y técnico, las investigaciones, las relaciones entre instituciones y especialistas, los trabajos y la capacitación en Cartografía, Geografía, Historia y Geofísica. (iii) Impulsar y estimular la cooperación entre las instituciones especializadas de América y las Organizaciones Internacionales, en sus cuatro áreas.

ESTADOS MIEMBROS: Solamente los Estados Americanos son miembros natos del IPGH. Los países de otros continentes pueden ser Observadores Permanentes. Los 21 países que actualmente integran el IPGH en calidad de Estados Miembros son: Argentina, Belice, Bolivia, Brasil, Chile, Colombia, Costa Rica, Ecuador, El Salvador,

Estados Unidos de América, Guatemala, Haití, Honduras, México, Nicaragua, Panamá, Paraguay, Perú, República Dominicana, Uruguay y Venezuela. Los países Observadores Permanentes son: España, Francia, Israel y Jamaica.

CAPACITACIÓN Y BECAS: A través de sus Comisiones el IPGH ofrece una amplia gama de cursos, talleres y conferencias dirigidas a especialistas y profesionales de las áreas de interés del Instituto, y en general a otros profesionales interesados en la materia.

PROGRAMA CIENTÍFICO-TÉCNICO
El Programa de Asistencia Técnica del IPGH tiene como propósito la ejecución de acciones especializadas que contribuyan a la integración regional y al desarrollo sostenible en temas específicos: cambio climático, ordenamiento del territorio y desastres naturales.

PARA MAYOR INFORMACIÓN DIRÍJASE A: Secretaría General del IPGH, Ex Arzobispado 29, Colonia Observatorio, 11860 México, D.F., teléfonos (52- 55) 5277-5791 / 5277-58888 / 5515-1910; Fax (52-55) 5271-6172, correo electrónico: CooperacionTecnica@ipgh.org / http://www.ipgh.org

**También lo encuentra como Pan American Institute of Geography and History (PAIGH)*

INSTITUTO POLITÉCNICO NACIONAL

CENTRO DE INVESTIGACIÓN EN COMPUTACIÓN
LABORATORIO DE PROCESAMIENTO INTELIGENTE DE INFORMACIÓN GEOESPACIAL
FECHA DE FUNDACION: 1996
PROGRAMAS DE ESTUDIO: Maestría, Doctorado
CONTACTO PARA PROGRAMA DE POSGRADO: Dr. Miguel Jesús Torres Ruiz, mtorres@cic.ipn.mx; Dr. Oscar Camacho Nieto, oscarc@cic.ipn.mx
SITIO WEB: http://geo.cic.ipn.mx

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: MARCO ANTONIO MORENO IBARRA, JEFE DEL LABORATORIO, Mexico, D.F., Telefono: 52-55-57296000 ext 56528, Fax: 52-55-57296000 ext 556607, marcomoreno@cic.ipn.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: Se imparten programas de maestría y doctorado en Ciencias de la Computación, los miembros del laboratorio trabajan en GIS y de forma específica en al área de procesamiento semántico de datos geográficos, en problemas relacionados con la recuperación de información, integración de fuentes de datos, entre otros. Los programas de maestría y doctorado fueron envaluados por el Consejo Nacional de Ciencia y Tecnología (CONACYT), y pertenecen al Programa Nacional de Posgrados de Calidad, en donde ostentan la categoría de Programa de Competencia Internacional y Programa Consolidado. Se busca que los estudiantes desarrollen trabajos que tengan aplicación directa en la resolución de un problema real, además participan en proyectos de investigación aplicada, lo cual les da experiencia para su desarrollo profesional. Los egresados pueden desempeñarse tanto en el sector industrial como educativo, o bien, son aptos para continuar sus estudios. Por el perfil del posgrado en computación, los egresados pueden adaptarse con facilidad a diferentes áreas. Los estudiantes trabajan ya sea en el laboratorio o bien en cubículos, en donde cuentan con el equipo necesario para realizar su investigación. El edifico es cómodo y cuenta con las facilidades necesarias. Adicionalmente, el laboratorio recibe estudiantes de ingeniería para realizar servicio social o tesis de grado.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Para ingresar a los programas de posgrado los estudiantes participan en procesos de admisión, que consisten de examen de conocimientos, examen de inglés y entrevista. Por la naturaleza de los programas requieren que los estudiantes esten graduados ya sea de ingeniería o maestría según corresponda. Los planes de estudios son enfocados a computación, sin embargo los estudiantes tienen accesos a los cursos que imparte el laboratorio: fundamentos de la ciencia de la información geoespacial, diseño e implementación de bases de datos geoespaciales, herramientas para el diseño e implementación de gis, métodos de geopronóstico, análisis espacial aplicando técnicas de inteligencia artificial y percepción remota. En el caso de la maestría los estudiantes cursan 4 materias de tronco común (teoría de la computación, matemáticas discretas, programación avanzada y sistemas operativos). Además cuatro cursos optativos, que dependen del tema de tesis que desarrolle el estudiante. Los estudiantes admitidos al posgrado tienen derecho a solicitar un apoyo por parte del CONACYT, adicionalmente el IPN otorga becas, por lo que cada estudiante tiene derecho a un apoyo económico, además existe en el Instituto un programa de formación de investigadores en el que los alumnos pueden acceder a un apoyo económico complementario.

PROFESORADO:
José Giovanni Guzmán Lugo, Dr — Procesamiento digital de imágenes, Web mapping
Marco Antonio Moreno Ibarra, Dr — Generalización, Similitud Semántica, Diseño de GIS
Miguel Jesús Torres Ruiz, Dr — Diseño de ontologías, Bases de datos espaciales
Rolando Quintero Téllez, Dr — Procesamiento semántico de datos raster, ambientes virtuales

UNIVERSIDAD AUTÓNOMA DE CIUDAD JUÁREZ

URBAN STUDIES Ph.D. PROGRAM
PLANNING AND URBAN DEVELOPMENT M.A. PROGRAM
GEOINFORMATICS B.S. PROGRAM
DEPARTMENT OF ARCHITECTURE
INSTITUTE OF ARCHITECTURE DESIGN AND ARTS
DATE FOUNDED: 1989
DEGREES OFFERED: Ph.D. in Urban Studies, M.A. in Planning and Urban Development, and B.S. in Geoinformatics.
MAJOR AREAS: Geionformatics, Urban Planning, Urban and Architectural Space, City and Urban Integration Processes, Urban Territorial Analysis
HEAD: Erick Sánchez Flores, Ph.D.
DEPARTMENT ADMINISTRATOR: Elvira Maycotte Maycotte, Ph.D.

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Department of Architecture, Institute of Architecture Design and Arts, Av. del Charro # 410 N. Ciudad Juárez, Chih. 32310, México
Telephone: +52 656 688 4820. Fax: +52 656 688 4620.
Email: iada@uacj.mx.
Web: http://www.uacj.mx/IADA/DARQ/Paginas/default.aspx

PROGRAMS AND RESEARCH FACILITIES: The Department of Architecture offers a vertical set of Geography related programs, starting at the B.S. level with the Geoinformatics program open in

August, 2009. This B.S. sets the basis for strong spatial curricula from a geotechnology perspective to feed our graduate programs. At the M. A. level it offers the Planning and Urban Development program with a major area in Urban Spatial Analysis and recognized by CONACyT. This was the first graduate program at UACJ, operating since 1989 and source of the Geographic Information Center created in 1993. At the Ph.D. level, the Department offers the Urban Studies program open in January 2010, and also recognized by CONACyT, offering the same Geography related major area in Urban Spatial Analysis available at the M.A. To support the academic and research activities of these programs, the Department has the Urban Territorial Analysis Laboratory (LAUT) equipped with specialized hardware, GIS, statistics, and Remote Sensing software for all the projects with a spatial component. The advantages of this geotechnological platform are also used in the learning process of grad and undergrad students, professors and research specialists visiting the UACJ. This infrastructure also serves as the basis for a Continuous Education Training program in geotechnology applications for urban and environmental studies. Some of the main applications developed with the support of this research facilities include projects on remote sensing groundwater exploration and geomorphology mapping; watersheds characterization with high resolution Lidar DEMs; GIS landscape units characterization, high resolution remote sensing urban growth monitoring; GIS urban planning applications; land ordinance programs based on geospatial technologies; Lidar terrain analysis and modeling; remote sensing derived riparian ETP, and land use/cover change in urban and rural environments.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The Urban Studies Ph.D. is a 6-semester program offering three major areas: 1. Urban and architectural space, 2. City and urban integration processes, and 3. Urban territorial analysis. Within each of these specialization areas, students can choose from an ample variety of research themes, representing the research interests of faculty. The study plan is organized in two levels. The first two semesters consists of research, interdisciplinary, and specialized seminars. The remaining semesters are devoted to research seminars to complete the thesis work on individual schedules.

The Planning and Urban Development M.A. is a 4-semester program, which offers a complete set of courses in three major areas: 1. Urban design and housing, 2. Urban structure and mobility, and 3. Geospatial analysis for land ordinance. Applications are accepted on a yearly basis. Admission requirements include, among others, passing a preliminary set of short courses in preparation for the beginning of the program, a statement of intention specifying the proposed subject for the thesis, and an interview with the Academic Committee.

The B.S. program in Geoinformatics offers a strong curriculum in spatial analysis, based on four horizontal thematic axes: 1. Geographic Information Systems, 2. Remote Sensing, 3. Programming, and 4. Geostatistics. This B.S. is an 8-semester program accepting applications from students in architecture, geography, engineering, and other related disciplines. The UACJ has a comprehensive set of scholarships for students with excellent GPA at the bachelor level.

FACULTY:

Alatorre Cejudo, Luis Carlos, Ph.D., Universidad de Zaragoza, Spain — Remote Sening, Global Change, Hidrology Geomorphology*

Bravo Peña, Luis Carlos. Ph.D., Centro de Investigación en Alimentación y Desarrollo A.C., Mexico — Landscape dinamics, land suitability, land ordinance, Land use land cover change*

Chávez, Javier, Ph.D., University of Arizona, U.S. — Urban development, GIS analysis, Demography

Granados Olivas, Alfredo, Ph.D., New Mexico State University, U.S. — RS-GIS for hydrology and geology, Groundwater research, Soil mapping, Precision agriculture

Gutierrez Casas, Luis Enrique, Ph.D. Universidad Complutense de Madrid, Spain — Urban and regional economy, Urban planning

Hernández Hernández Vladimir, Ph.D. El Colegio de la Frontera Norte, México — Urban geography, Urban movility.

Llera Pacheco, Francisco Javier, Ph.D., University of Arizona, U.S. — Economic geography, Urban administration, Economic development, Mexico-US border communities

Maycotte Pansza, Elvira, Ph.D. Universidad Autónoma de Colima, Mexico — Architecture, Housing, Urban development, Public urban space

Meza Carpio, Estela, Ph.D., Universidad Carlos III de Madrid, Spain — Aesthetics and urban culture

Rivero Peña, Héctor, Ph.D., Universidad Politécnica de Catalunya, Spain — Urban processes, Urban design, Housing

Rodríguez Sosa, Marisol Ph.D., Universidade Federal do Rio de Janeiro, Brasil — Urbanism and planning theory, Urban public space, Urban cultural landscape

Salazar Gutiérrez, Salvador, Ph.D., Instituto Tecnológico y de Estudios Superiores de Occidente, Mexico — Urban sociology, Urban culture

Sánchez Flores, Erick, Ph.D., University of Arizona, U.S. — GIS-RS of natural human environments, Land use land cover change monitoring, Environmental Geography

Torres Olave Maria Elena, PhD. — Land use land cover change monitoring, Environmental Geography

Complementary Staff: faculty from other areas within the UACJ and from peer institutions in the U.S. southwest region and Mexico participate in our academic programs.

*Faculty located in the Cuauhtémoc campus

UNIVERSIDAD AUTÓNOMA DE SAN LUIS POTOSÍ

FACULTAD DE CIENCIAS SOCIALES Y HUMANIDADES
FECHA DE FUNDACION: Agosto de 2002
PROGRAMAS DE ESTUDIO: Licenciatura en Geografía
CONTACTO PARA PROGRAMA DE PREGRADO: Dr. Oscar Reyes Pérez, osrp@uaslp.mx
SITIO WEB:
http://www.uaslp.mx/Spanish/Academicas/fcsh/OFE/Geografia/Paginas/default.aspx
http://www.geografiauaslp.com/

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: Oscar Reyes Pérez, Coordinador de la licenciatura en Geografía, San Luis Potosí, México, Teléfono: 52-444-8321000; ext. 9231,osrp@uaslp.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: En la licenciatura en Geografía que se imparte en la Universidad Autónoma de San Luis Potosí podrás aprender a estudiar cómo poder organizar nuestro territorio de la manera más armónica, eficiente y ambientalmente sostenible, a ejecutar estudios de localización de puntos (centros comerciales), líneas (carreteras) o áreas (zonas con riesgo de inundación, incendios, terremotos) en un determinado territorio, así como a expresar tus hallazgos en mapas elaborados mediante el uso de software especializado que son los Sistemas de Información Geográfica. Para ingresar debes tener curiosidad geográfica, es decir, interés en la observación de lugares, capacidad para sintetizar e interpretar datos de procesos naturales y sociales, aptitud física e interés por viajar y explorar lugares en México y otras regiones del mundo, habilidades para el trabajo cartográfico, familiaridad en el uso de equipos de cómputo; curiosidad intelectual por conocer los patrones de organización territorial de procesos naturales y sociales; hábito de lectura e interés por el trabajo científico

multidisciplinario, así como respeto a la sociedad, la diversidad cultural, social y étnica. Al concluir tus estudios profesionales habrás adquirido conocimientos suficientes para describir y analizar las diferentes formas de organización territorial de la sociedad en un mundo globalizado y proponer soluciones metodológicas a problemas territoriales; conocerás las teorías y metodologías geográficas para entender y explicar el comportamiento territorial de las sociedades. Tendrás las habilidades para describir e interpretar los distintos procesos de organización espacial de la sociedad que conforman paisajes y regiones geográficas definidas, así como para operar software especializado de cómputo y de Sistemas de Información Geográfica, que facilitan la elaboración de mapas y el procesamiento de datos bajo criterios espaciales. Además contarás con capacidades para generar, resguardar e interpretar datos básicos de los sistemas naturales sociales y económicos para formular visiones sintéticas de los paisajes o regiones geográficas; para representar cartográficamente diferentes tipos de datos; la capacidad para proponer soluciones ecológicamente sostenibles de orden territorial a problemas derivados de una desequilibrada relación entre la sociedad, la naturaleza y la economía, como el cambio climático, el uso y la degradación de los recursos naturales como resultado de la actividad humana, la pérdida de la biodiversidad y los desastres naturales; también podrás realizar evaluación crítica para formular y mejorar programas de asignaturas, textos y otros materiales utilizados para la enseñanza de la geografía. Como geógrafo puedes trabajar en instituciones públicas y privadas de investigación, planeación, gestión territorial y consultorías de proyectos; instituciones de gobierno, asociaciones civiles no gubernamentales que requieran asesoría y servicios profesionales en proyectos cartográficos y sistemas de información geográfica; agencias de viajes, bancos y empresas privadas; instituciones educativas públicas o privadas en los niveles básico, medio, medio superior, superior y posgrado.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Los requisitos que debes cumplir para ingresar a la licenciatura en geografía son: certificado que acredite haber terminado íntegramente los estudios de nivel medio superior en cualquiera de las siguientes modalidades: Bachillerato en Ciencias Socio-administrativas, Físico –matemáticas o químico biológicas, Bachillerato General o único, Bachillerato tecnológico en el área correspondiente y aprobar el examen de admisión, que consta de evaluaciones en materia de salud, psicométrica, de conocimientos y CENEVAL. La licenciatura en geografía tiene una duración de 9 semestres, en los que cursarás 42 materias obligatorias y 5 optativas que están organizadas en cuatro áreas; teórica, metodológica, específica y de contextualización, que combinan la teoría con la práctica de campo, lo que te permitirá conocer y entender mejor las relaciones del medio ambiente con la sociedad de San Luis Potosí, de México y el mundo; además dentro del plan de estudios ya están contemplados tu servicio social y la elaboración del trabajo de titulación; algunas materias optativas te permiten convivir con gente de otras licenciaturas ya que las puedes cursar en cualquier facultad o escuela de la Universidad Autónoma de San Luis Potosí. Todos los profesores cuentan con doctorado y están en constante actualización, tanto en modelos educativos, como en sus áreas de especialización respectivas.

PROFESORADO:

Álvaro Gerardo Palacio Aponte Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Carlos Alfonso Muñoz Robles Profesor Investigador de Tiempo Completo Doctor en Ciencias, en School of Environmental and Rural Sciences, University of New England, Australia

Carlos Contreras Servín Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Humberto Reyes Hernández Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Javier Fortanelli Martínez Profesor Investigador de Tiempo Completo Doctor en Ciencias Agropecuarias, Facultad de Agronomía, Universidad Autónoma de San Luis Potosí

María Guadalupe Galindo Mendoza Profesora Investigadora de Tiempo Completo Doctora en Geografía, Universidad Nacional Autónoma de México

María Teresa Ayllón Trujillo Profesora Investigadora de Tiempo Completo Doctora en Geografía e Historia, Universidad Complutense, Madrid

Miguel Aguilar Robledo Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad de Texas, Austin (USA)

Oscar Reyes Pérez Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Valente Vázquez Solís Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

UNIVERSIDAD AUTÓNOMA DEL ESTADO DE MÉXICO

FACULTAD DE GEOGRAFÍA
FECHA DE FUNDACION: 1970
PROGRAMAS DE ESTUDIO: Licenciatura, Maestria, Certificado
CENTROS DE INVESTIGACION: Nodo de Innovación Geotecnológica Espacial
Laboratorio de Ciencia y Tecnología de la Información Geográfica
POSGRADOS OTORGADOS ANUALMENTE: 2
SITIO WEB: http://facgeografia.uaemex.mx/FacGeo/
URL DE PROGRAMA EN LINEA: Especialidad en Cartografía Automatizada, Teledeteccion y SIG http://facgeografia.uaemex.mx/FacGeo/maestria_cartografia.php
Maestría en Análisis Espacial y Geoinformática http://facgeografia.uaemex.mx/FacGeo/maeg/index_maeg.php

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Marcela Virginia Santana Juárez, Coordinación de Estudios Avanzados, Toluca, Estado de México, Telefono: 722-215-0255, Fax: 722-214-3182. Correo: geo.inv7@gmail.com

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La Facultad de Geografía oferta dos programas de Postgrado: uno en el nivel Especialización y uno en el de Maestría.

La Especialidad en Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica (ECATSIG) tiene como objetivo "Formar especialistas en Tecnologías de la Información Geográfica, capaces de proponer, desarrollar y liderar proyectos que contengan aplicaciones especializadas de Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica para la solución de problemas concretos de carácter ambiental, tecnológico y socio-económico". Es un programa intensivo de entrenamiento de carácter profesionalizante y modalidad presencial de un año de duración, abierto a especialistas de diferentes disciplinas que deseen adquirir el dominio de las tecnologías de la información Espacial. Cuenta con dos líneas de trabajo denominadas "Cartografía automatizada y teledetección, y Sistemas de Información Geográfica". La titulación es inmediata al término de los estudios, mediante la presentación de un reporte técnico de aplicación de las Tecnologías. La coordinadora del programa es la Dra. Norma Dávila Hernández. Contacto: ecatsig@uaemex.mx

La Maestría en Análisis Espacial y Geoinformática (MAEG) tiene como objetivo "Formar maestros altamente capacitados en geoinformática y análisis especial para la interpretación, modelación y gestión de las estructuras y procesos que se manifiestan en el espacio geográfico". Es un programa de Maestría escolarizado y presencial de dos años de duración, abierto a egresados de licenciaturas en geografía y especialidades afines, que deseen adquirir experiencia en el análisis del espacio geográfico y el uso de las geotecnologías para analizar y dar solución a problemas contemporáneos. El programa tiene dos líneas investigación, que son: Geoinformática y Análisis Espacial Socioeconómico, Geoinformática y Análisis Espacial del medio físico. La titulación es mediante presentación y defensa de una tesis en un periodo no mayor a seis meses de la conclusión del programa académico. La coordinadora del programa es la Dra. Xanat Antonio Némiga. Contacto: maegi.uaem@gmail.com

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Para ingresar a la Especialidad en Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica, se requiere título de licenciatura en disciplinas que trabajen con análisis y gestión del territorio. Asimismo, la comisión académica dará prioridad a los candidatos que en sus áreas de trabajo estén relacionados con el uso, diseño o análisis de la cartografía automatizada, la teledetección y los sistemas de información geográfica. Es necesario presentar la documentación pertinente, asistir a una entrevista con el Comité Académico del programa y aprobar el curso de inducción. Mayores informes

El programa consta de dos semestres; en los que se cursan materias de tres áreas académicas. En el área básica se incluyen: Adquisición de datos geoespaciales, Métodos de representación cartográfica, Diseño y estructuración de bases de datos, Introducción a los Sistemas de Información Geográfica, Desarrollo de aplicaciones geotecnológicas. En el área metodológica figuran: Cartografía Automatizada, Programación en ambiente de Sistemas de Información Geográfica, Estadística espacial y geoestadística, Taller de integración de reporte técnico, Tratamiento digital de imágenes satelitales, Documentación y calidad de datos geoespaciales, Análisis y modelación espacial en Sistemas de Información Geográfica, Proyecto terminal. En el área de aplicaciones se encuentra: Seminario de innovaciones geotecnológicas, Gestión de proyectos Geotecnológicos y formación humana, Taller optativo.

Para ingresar a la Maestría en Análisis Espacial y Geoinformática se requiere presentar título de una licenciatura afín a las líneas de investigación del programa, presentar la documentación pertinente, asistir a una entrevista con el Comité Académico del programa y aprobar el curso de inducción así como los exámenes psicométricos y del idioma. Para mayores informes se sugiere consultar la página: http://facgeografia.uaemex.mx/FacGeo/maeg/index_maeg.php

La estructura curricular de la Maestría está conformada por 17 asignaturas. Las materias se organizan en tres áreas académicas: básica, de aplicación y complementaria. El área básica incluye los temas: Problemas geográficos contemporáneos, Fundamentos de análisis cartográfico y espacial en SIG, Diseño e instrumentación geoinformática, Diseño e implementación de bases de datos geoespaciales, Estadística especial y geoestadística, Teledetección aplicada, Planeación estratégica y gestión del territorio, Aplicaciones de SIG, Métodos y Técnicas de modelación espacial. El área de aplicación incluye cuatro seminarios de aplicación innovadora del conocimiento y una estancia de vinculación. El área complementaria contempla las siguientes materias optativas: Ecología y biogeografía, Geografía ambiental, Sistemas urbanos y regionales, Geografía económica y social, Manejo integrado de recursos naturales, Gestión integral de riesgos socionaturales, Desarrollo y procesos sociodemográficos, Modelos de análisis socioeconómico, Tratamiento de imágenes ópticas y de radar, Procesos espaciales de geografía económica, Temas socioeconómicos selectos y Temas selectos de medio ambiente.

Ambos programas se encuentran inscritos en el Padrón Nacional de Postgrados de Excelencia del Consejo Nacional de Ciencia y Tecnología, por lo que ofrecen beca de posgrado nacional de CONAcyT para los alumnos que cumplan con los requisitos pertinentes.

PROFESORES ADSCRITOS A LOS PROGRAMAS DE POSTGRADO:

Doctor en Edafología Miguel Ángel Balderas Plata — Contaminación y degradación de suelos, evaluación de tierras, levantamiento de suelos.

Doctor en Geografía Luis Miguel Espinoza Rodríguez — Geomorfología, geografía del paisaje y riesgos.

Doctor en Ciencias Agropecuarias y Recursos Naturales Jesús Gastón Gutiérrez Cedillo — Evaluación de la sustentabilidad, estudios agroecológicos y regionales.

Doctor en Geografía Juan Campos Alanís — Problemas socioeconómicos espaciales, justicia espacial, equidad, marginación.

Doctor en Geografía Fernando Carreto Bernal — Geografía regional, geografía educativa, Agroecología.

Doctor en Geografía Rodrigo Huitrón Rodríguez — Geografía de las actividades terciarias y Geografía Económica

Doctor en Geografía José Francisco Monroy Gaytán — Geoindustrial, Industria de Innovación y del conocimiento.

Doctora en Derecho de la Empresa Elsa Mireya Rosales Estrada — Capital humano y territorio.

Doctora en Geografía Marcela Virginia Santana Juárez — Geografía de la Salud

Doctor en Ingeniería Roberto Franco Plata — Gestión Integrada del Agua y TIG.

Doctor en Educación Bonifacio Doroteo Pérez Alcántara — Educación, Temas Regionales, industria y Turismo.

Doctor en Geografía Noel Bonfilio Pineda Jaimes — Problemas Forestales aplicando Tecnologías de la Información Geográfica

Maestro en Ciencias Ambientales Leonardo Alfonso Ramos Corona — Aplicación de las tecnologías de la Informacion Geográfica

Doctora en Manejo de Recursos Naturales. Xanat Antonio Némiga — Geoinformación para el manejo de recursos naturales.

Maestra en Análisis Espacial y Geoinformática María Milagros Campos Vargas — Aplicaciones geotecnológicas en SIG.

Maestro en Ciencias del Agua Luis Ricardo Manzano Solís — Gestión Integral del agua, desarrollo de aplicaciones en SIG.

Doctor en Sociología. Edel Cadena Vargas — Geografía Económica y de la Marginación.

Doctor en Geografía. Emilio Baró Suarez — Gestión de riesgos naturales y desastres.

Dra. en Ciencias Sociales. Brisa Violeta Carrasco Gallegos — Geografía Urbana.

Ing. Sandra Lucía Hernandez Zetina — Enseñanza y desarrollo de Tecnologías de la Información Geográfica. ECATSIG.

Lidia Alejandra González Becerril — Cartografía automatizada y diseño cartográfico.

L. PUR. Renata Juilliani Ruiz Gutiérrez — Planificación Urbana Regional y Geografía Industrial.

Maestra en Geografía, Inocencia Cadena Rivera — Geografía de Género

Maestro en Geografía. Efrain Peña Villada — Geografía ambiental y Riesgos naturales

Doctor en Educación. Carlos Reyes Torres — Enseñanza de la Geografía, geografía rural.

Doctora en Ingeniería. Raquel Hinojosa Reyes — Geografía del Transporte.

Doctora en Ciencias de la Tierra. Norma Angélica Dávila Hernadez — Interferometría de Radar y SAR en procesos geológicos.

Doctora en Geografía – Patricia Flores Olvera — Geomorfología y riesgo

Doctor en Ciencias de la Tierra – Hector Víctor Cabadas Báez — Geología y Geomorfología

UNIVERSIDAD AUTÓNOMA METROPOLITANA (UAM), CAMPUS IZTAPALAPA

COORDINATION OF HUMAN GEOGRAPHY PROGRAM
DATE FOUNDED: 2002
DEGREES OFFERED: B.A. in Human Geography; M.A. and Ph.D. forthcoming
MAJORS: Regional and Economic Geography, Cultural Geography, Environmental Studies
HEAD: Dr. Cristóbal Mendoza

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Coordinador de la Licenciatura en Geografía Humana, Dr. Cristóbal Mendoza, Universidad Autónoma Metropolitana Unidad Iztapalapa, San Rafael Atlixco, 186, edificio H, Colonia Vicentina, Delegación Iztapalapa, CP 09340 México DF. Phone: (52-55) 5804 6466. FAX 5804-4789. Email: cmp@xanum.uam.mx.
Information also available at:
http://dcsh.izt.uam.mx/licenciaturas/geografia_humana/.

PROGRAMS AND RESEARCH FACILITIES: Faculties members develop research in different fields of Geography. Students are invited to participate in the research projects that are coordinated by our faculties. Computer facilities are opened to geography students, including GIS, quantitative methods. Distance education will be developed soon.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The admission exam are held annually in the period March-July. Every September, a new generation of students start Geography on a trimester-based program- The program consists of 12 trimesters. Ordinary trimesters have 4-5 courses of 4 weekly hours each. Foreign language (English and French) are integrated in the syllabus as compulsory courses. After trimester 8th, students choose specialization among three possible options: (i) City and culture, (ii) regional and economic geography; (iii) environmental studies. Optional courses are available in different schools, as engineering, biology, other social science disciplines, etc. Financial aid is available through official programs (UAM-Federal Ministry of Education). Exchange mobility programs are opened to students of other Latin American universities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The new program started on September-December on a trimester base; inscriptions to general admission exam are annual during March and July; the 12 trimester program will open each September; normal trimester consider 4 to 5 courses of 4 weekly hours each from 8am to 4 pm; foreign language are offered as obligatory courses since trimester 4th (English and French); after trimester 8th, students will choice one of 3 majors called "Integration Edges"): city and culture; regional and economic geography; environmental studies; optional courses can be taken in different schools, as engineering, biology, other social science disciplines, etc. Financial aid available through official programs (UAM-Federal Ministry of Education)

FACULTY (Basic Staff):
Cristobal Mendoza, Ph.D. Kings College, London — geography of population, migration, quantitative methods.
Rocio Rosales, Ph.D, National Autonomous University of Mexico (UNAM) — economic geography, regional planning, local economic development, political geography and geography of Mexico
Ludger Brenner, Ph.D Universität Trier — geography of tourism, environmental governance, environmental studies
Pedro Sunyer, Ph.D University of Barcelona, Spain — geography and history, epistemology of geography
Martín Checa-Artasu, Doctor Ph.D University of Barcelona, Spain — local economic development, urban geography.
Alicia Lindón, Ph.D., El Colegio de México, México — epistemology of geography, cultural geography, urban geography and qualitative methods.
Armando García Chiang, Ph.D, University of Sorbonne, France — economic geography, regional planning, political geography, geography of Mexico.
Rafael Calderón Contreras, Ph.D. University of East Anglia — environmental studies, cartography, GIS.
Paula Soto, Ph.D, Catholic University of Chile — urban geography, cultural geography, qualitative methods, gender studies.

COMPLEMENTARY STAFF:
Faculty from other disciplines are working on a partial time basis. Their orientations range from social psychology, cartography, GIS and remote sensing to anthropology, sociology, history, or economy. Occasionally foreign teachers are integrated temporarily for specific teaching and research activities.

UNIVERSIDAD DE GUADALAJARA

DEPARTAMENTO DE GEOGRAFÍA Y ORDENACIÓN TERRITORIAL
DATE FOUNDED: 1980
DEGREES OFFERED: Licenciatura en Geografía, Maestría en Desarrollo Local y Territorio y Diplomado en Geomática y Gestión del Territorio
GRANTED HEAD: Hirineo Martínez Barragán, Mtro

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Departamento de Geografía y Ordenación Territorial, División de Estudios Históricos y Humanos de la Universidad de Guadalajara, Av. De los Maestros y Mariano Bárcena CP 44260, Guadalajara, Jalisco, México. Tel. y fax (399) 3819-3381 y 3819-3386. E-mail www.geografia.cucsh.udg.mx geografia.extension@csh.udg.mx

PROGRAMS AND RESEARCH FACILITIES: El plan de estudios de licenciatura responde a las condiciones actuales del conocimiento geográfico y a la problemática que afecta a los territorios especialmente de Jalisco y del Occidente de México. Asimismo, este plan tiene como referente teórico la educación basada en competencias profesionales; con este enfoque se forma a los alumnos desde una perspectiva amplia y se olvida de una especialización muy concreta; se ofrecen los conocimientos básicos para desarrollar destrezas y habilidades que les permitan desempeñarse laboralmente en las áreas que el desarrollo económico de los territorios y las nuevas tecnologías demandan, como son: la detección de riesgos ambientales, la representación cartográfica, los sistemas de información geográfica, el ordenamiento territorial, la conservación de los recursos, la calidad de vida y el desarrollo sustentable, entre otros. El contenido del Diplomado está estructurado en módulos que garantizan un acercamiento al conocimiento de las ciencias de la representación terrestre y a la utilización de las nuevas tecnologías en la aplicación práctica de un problema en específico; considera dos salidas de campo; la primera para el reconocimiento y recopilación de información del área piloto; y la segunda, para la verificación de los

resultados obtenidos de la aplicación del sistema de información geográfica del área piloto, y con esto realizar el ejercicio de gestión del territorio. El objetivo principal de la Maestría es formar profesionistas expertos en analizar, gestionar y ofrecer soluciones a los problemas derivados del desarrollo local en su relación con territorios específicos, así como de la dinámica del desarrollo territorial, en la construcción de escenarios actuales y futuros

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: La Licenciatura en Geografía inició en marzo de 1980. El plan de estudios opera en sistema semestral de créditos y con el enfoque de competencias profesionales. Entre las competencias se tienen cuatro: Cartografía, Investigación, Gestión del Territorio y Docencia. El diplomado se ofrece a instituciones interesadas en capacitar a sus colaboradores en el conocimiento y aplicación de los Sistemas de Información Geográfica, con un total de 175 horas. La Maestría inició en 2000, trabaja con un programa escolarizado, tutorial y generacional, mismo que tiene una duración de cuatro semestres (2 años), con énfasis en desarrollo en sociedades locales, regionalización, planificación estratégica y territorio. Consultar requisitos de admisión en la página: www.escolar.udg.mx

FACULTY:

Bertha Márque-Azúa, Dr. , Ministerio de la Universidad y de la Investigación Científica y Tecnológica, Italia, 1993, Profesor-Investigador titular "C", Perfil Promep, Investigador Nacional Nivel I — deformación de la corteza terrestre, mediciones por GPS, tectónica, vulcanismo, percepción del riesgo

Andrzej Zeromski-Kaczmareck, Dr., Academia de Ciencias de Polonia, 1981, Profesor-Investigador titular "C" — geografía humana, desarrollo sustentable, ordenamiento territorial

Luís Felipe Cabrales Barajas, Dr., Universidad Complutense de Madrid, 1996, Profesor-Investigador titular "C", Perfil Promep, Investigador Nacional Nivel I — ordenamiento territorial, segregación urbana, estudios de aspectos sociales y funcionales de centros históricos desarrollo local y regional

Miguel Cházaro-Basañez, Dr., Universidad de Guadalajara, Profesor-Investigador titular "C", Perfil Promep — taxonomía botánica

Heriberto Cruz-Solis, Dr., Universidad de Alcalá, España, 1998, Profesor- Investigador titular "B", Perfil Promep, Investigador Nacional Nivel I — sistemas de información geográfica, cartografía y teledetección

Ruth Miranda-Guerrero, Dr. , Universidad de Alcalá, España, 2002, Profesor Investigador titular "A", Perfil Promep, Investigador Nacional Nivel I — atlas, sistemas de información geográfica y cartografía

Raúl Acevedo-Rosas, Dr., Instituto de Ecología, A. C., 2003,Perfil Promep,Profesor- Investigador titular "A" — biogeografía y sistemática vegetal

Juan Carlos Sustay-Delgado, Dr., Universidad de Guadalajara, 2005, Profesor- Investigador asociado "B" — ordenamiento territorial, planeación de la educación

José de Jesús Torres Contreras, Dr., Universidad deGuadalajara, 2007, Profesor- Investigador titular "B" — geografía rural

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Rosalba Castañeda-Castro, M.C., Universidad de Guadalajara, 2006, Profesordocente asociado "B" — docencia, antropológica social, ciencia de la educación, epistemología de la geografía

Mercedes Arabela Chong-Muñóz, M.C., Universidad de Guadalajara, 2002, Profesor-Investigador titular "A" — antropología social

Antonio González Salazar, M.C., Universidad de Guadalajara, 2002, Profesor- Investigador titular "A" — climatología

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Francisco Copado-González, M.C., Universidad de Guadalajara, Profesor- Investigador asociado "C" — suelos

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María Evangelina Salinas-Escobar, M.C., Universidad de Guadalajara, 2001, Profesor-Investigador titular "B", Perfil Promep — geografía de la población, desarrollo social y trabajo, ordenamiento territorial

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Catherine Annick Liot, Dr. Universidad de París, Francia, Profesor-Investigador titular "A", Investigador Nacional, SNI — arqueología

Armando Juárez, M.C., Universidad de Ciudad Juárez, 2004, Profesor-Investigador titular "A" — suelos

Serafín Maldonado-Aguirre, candidato a Doctor., Universidad de Puebla, Profesor- Investigador titular "A" — territorio, región, geografía económica

Ma. del Carmen Macías-Huerta, M.C., Universidad Veracruzana, 1992, Profesor- Investigador titular "C", Perfil Promep — desarrollo regional

Rosa María Sandoval-Sandoval, Candidata a Doctora., Universidad de Guadalajara, 2004, Técnico-Académico asociado "C" — pedagogía y didáctica de la geografía

Luís Valdivia-Ornelas, Cand. M.C., Universidad Nacional Autónoma de México, Profesor-Investigador titular "A" — geomorfología y riesgos

Julián Alberto Flores-Díaz, Candidato a M.C., Universidad de Guadalajara, 2004, Profesor-Investigador asociado "C" — geología

José Fernando Rico-Román, Candidato a Maestro, Universidad de Guadalajara, Profesor-Investigador asistente "C" — educación

Guadalupe Quezada-Chico, Ingeniero Agrónomo, Universidad de Guadalajara, 1993, Profesor-Investigador asistente "C" — suelos

Luz Alejandra Martínez-Castillo, Licenciatura, Universidad de Guadalajara, Profesor de asignatura — cartografía

Moisés, Pérez Muñoz, Ingeniero Civil, 1992, Universidad de Guadalajara, Profesor-Docente titular "B" — cartografía, hidráulica, matemáticas

UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

COORDINACIÓN DEL PROGRAMA DE POSGRADO EN GEOGRAFÍA
FACULTAD DE FILOSOFÍA Y LETRAS – INSTITUTO DE GEOGRAFÍA
ESTRUCTURA ACTUAL DEL PROGRAMA DE POSGRADO EN GEOGRAFÍA APROBADA: Diciembre de 1998
GRADOS QUE SE OTORGAN: Maestro en Geografia y Doctor en Geografia
ALUMNOS EN LA MAESTRÍA: 50
ALUMNOS EN EL DOCTORADO: 36
COORDINADORA ACTUAL: Dra. Laura Elena Maderey Rascón
ASISTENTE ACTUAL: Lic. Macario Arredondo Romero

PARA MAYOR INFORMACIÓN Y SOLICITUD DE CATÁLOGO ESCRIBIR A: Coordinación del Programa del Posgrado en Geografía. Facultad de Filosofía y Letras. Universidad Nacional Autónoma de México (UNAM). Ciudad Universitaria, C. P. 04510. Delegación Coyoacán, D. F., México. Teléfono (5255) 55-50-69-75. Correo electrónico: geografia@correo.posgrado.unam.mx Internet: www.igeograf.unam.mx/posgrado/.

PROGRAMA DE INVESTIGACION (My D): En la impartición de los Programas de Maestría y Doctorado en Geografía figuran como entidades participantes El Colegio de Geografía, el Instituto de Geografía y el Centro de Investigaciones en Geografía Ambiental (CIGA), todos de la Universidad Nacional Autónoma de México (UNAM).

La Maestría tiene tres campos de conocimiento vigentes y dos nuevos en proceso de aprobación. Los vigentes son Sociedad y Territorio, Ordenamiento Territorial y Geografía Ambiental y los nuevos, Manejo Integral del Paisaje (MIP, que se imparte en la sede del CIGA en la Ciudad de Morelia) y Geomática. El Plan de Estudios está formado por 14 cursos en promedio y 90 créditos en total. Hay variaciones entre los distintos campos de conocimiento, pues mientras que el del MIP se sigue un formato de cursos intensivos, en los otros campos de conocimiento los cursos son semestrales. Después de aprobar los cursos, se debe defender y aprobar una tesis ante un jurado de cinco sinodales pero existen otras modalidades de titulación, como la presentación de un examen de conocimientos, por Informe Académico y otros que están actualmente en revisión.

Por su parte, el Doctorado sigue un formato tutoral, en el cual el estudiante realiza una investigación bajo la supervisión de un tutor y un Comité Tutor con otros dos sinodales más. Para obtener el grado, se debe aprobar un examen de candidatura entre el cuarto y quinto semestre, publicar avances de la investigación en revistas indizadas o en capítulos de libro dictaminados y es factible realizar una estancia de investigación hasta por un año en otra institución nacional o internacional de prestigio, con el aval de su tutor. Por último, el doctorando defiende una tesis escrita ante un jurado formado por cinco sinodales de los cuales, dos son preferentemente externos al Programa.

En ambos caso, es deseable que el estudiante se incorpore a un proyecto de investigación que realice su tutor.

PLAN ACADEMICO, REQUISITOS DE ADMISION, AYUDA FINANCIERA: El programa de Maestría se realiza en dos años y el de Doctorado en cuatro. La convocatoria de ingreso se publica a principios de cada año, el proceso de selección dura, aproximadamente tres meses y quienes son aceptados, inician sus estudios en el mes de Agosto del mismo año.

Los requisitos de admisión en Maestría son contar con un titulo en Geografía o disciplinas afines (Biología, Sociología, Ecología o Economía, entre otras), un promedio mínimo de ocho (8) o su equivalente en países que evalúan en una escala diferente del 1 al 10, presentar un protocolo de investigación, en el cual la dimensión geográfica del problema por investigar es relevante. El protocolo deberá estar avalado por un tutor del Posgrado, mismo que debe obtener dos de tres dictámenes positivos. También se debe aprobar un examen de conocimientos y una entrevista personal y presentar un examen psicométrico.

Para ingresar al Programa de Doctorado se requiere contar con un titulo de Maestría en Geografía o disciplinas fines, presentar y aprobar un protocolo de investigación avalado por un tutor del Programa y una entrevista personal y presentar un examen psicométrico.

En ambos caso, los aspirantes extranjeros, deberán realizar los trámites correspondientes ante el Instituto Nacional de Migración de la Secretaria de Relaciones Exteriores.

Los aspirantes que son aceptados en el Programa, son postulados para obtener una beca del Gobierno de México a través del Consejo Nacional de Ciencia y Tecnología (CONACyT) en donde se decide su otorgamiento. También existe la posibilidad de obtener becas complementarias para realizar una estancia corta de investigación en otros Programas de calidad, dentro o fuera del país, a través de CONACyT y de la propia UNAM.

TUTORES

Aceves García, Mauricio, Maestro en Geografía — Fotointerpretación.

Aguilar Martínez, Adrián Guillermo, Doctor en Filosofía, University College, Universidad de Londres, Gran Bretaña — Geografía urbana y regional.

Aguirre Gómez, Raúl, Doctor en Ciencias, University of Southampton, Inglaterra — Percepción remota marina.

Alcántara Ayala, Irasema, Doctora en Filosofía, University of London, King´s College London — Peligro, vulnerabilidad y riesgos.

Astier Calderón, Marta, Doctora en Ciencias Biológicas, UNAM. Facultad de Ciencias — Agricultura ecológica.

Bautista Zúñiga, Francisco, Doctor en Ciencias Biológicas, UNAM. Facultad de Ciencias — Geoquímica ambiental.

Bocco Verdinelli, Gerardo, Doctor en Ciencias Geográficas, Universidad de Ámsterdam — Geografía ambiental.

Bollo Manent, Manuel, Doctor en Geografía, Facultad de Geografía Universidad Estatal de Moscú — Geoecología del paisaje.

Burgos Tornadú, Ana Laura, Doctora en Ciencias Biológicas, Posgrado en Ciencias Biológicas. UNAM — Sistemas ambientales complejos.

Bustos Trejo, Gerardo, Doctor en Historia, UNAM — Geografía histórica.

Calderón Aragón, Georgina, Doctora en Geografía, UNAM — Geografía social.

Carrillo Rivera, Joel, Doctor en Filosofía, Universidad de Londres, Gran Bretaña — Hidrogeología.

Casado Izquierdo, José María, Doctor en Geografía, UNAM — Cartografía temática y ordenamiento territorial.

Chias Becerril, Luis, Doctor en Geografía, Université de Toulouse, Francia — Geografía del transporte.

Coll-Hurtado Oliva, María Francisca Atlántida, Doctora en Geografía, UNAM — Geografía histórica y económica de México.

Commons de la Rosa, Áurea Carlota, Doctora en Geografía, UNAM — Geografía histórica.

Correa Pérez, Genaro, Doctor en Geografía, UNAM — Geografía física y económica

Cram Heydrich, Silke, Doctora en Ciencias, Universidad Agrícola de Hohenheim, Stuttgart, Alemania — Contaminación y degradación de suelos.

De La Vía, Alejandra Larrazabal, Maestra en Información de suelos para el manejo de los recursos naturales — SIG participativo.

Delgado Campos, Genaro Javier, Doctor en Urbanismo, UNAM — Interfase urbano regional.

Echanove Huacuja, Flavia, Doctora en Ciencias Antropológicas, Universidad Autónoma Metropolitana — Geografía agrícola de México.

Espinoza Rodríguez, José Manuel, Maestro en Geografía, UNAM — Geografía ambiental, biogeografía y recursos naturales.

Fernández Christlieb, Federico, Doctor en Geografía, Université de Paris IV, Soborne, Paris, Francia — Geografía cultural.

Galicia Sarmiento, Leopoldo, Doctor en Ecología, UNAM — Ecología del paisaje.

García de León Loza, Armando, Maestro en Geografía — Geografía cuantitativa aplicada, análisis urbano y regional.

García Romero Arturo, Doctor en Geografía, Universidad Complutense de Madrid, España — Geoecología del paisaje.

Garibay Orozco, Claudio, Doctor en Ciencias Sociales, CIESAS — Paisajes mineros.

Garza Merodio, Gustavo Gerardo, Doctor en Geografía, Universidad de Barcelona, España — Geografía histórica.

Gómez Mendoza, Leticia, Doctora en Geografía, UNAM — Cambio climático y efectos en el ecosistema.

Gómez Rey, Patricia, Doctora en Geografía, UNAM — Geografía histórica.

Gómez Rodríguez, Gabriela, Maestra en Ciencias, UNAM — Prospección de recursos naturales mediante SIG y PR.

Gómez Rojas, Juan Carlos, Doctor en Geografía, UNAM — Agroclimatología y geografía cultural.

Gutiérrez Vázquez, María Teresa, Doctora en Geografía, Universidad de Paris Soborna — Geografía urbana-regional.

Hernández Cerda, Ma. Engracia, Doctora en Ciencias, UNAM — Hidroclimatología.

Hernández Santana, José Ramón, Doctor en Ciencias Geográficas, Instituto de Ciencias, ex URSS — Geomorfología.

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Jiménez Ortega, Jorge, Doctor en Geografía — Recursos naturales, Áreas Naturales Protegidas y actores sociales.

Juárez Gutiérrez, María del Carmen, Doctora en Geografía, UNAM — Geografía de la población.

Legorreta Paulín, Gabriel, Doctor en Geología, Universidad de Búfalo, USA — Peligro, vulnerabilidad y riesgos.

López García, José, Doctor en Ciencias con especialidad en Biología, UNAM — Geografía de la población y ambiente.

López Levy, Liliana, Doctora en Geografía — Geografía cultural.

López López, Álvaro, Doctor en Geografía, UNAM — Geografía de género.

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Mendoza Cantú, Manuel Eduardo, Doctor en Ciencias de la Tierra, UNAM — Instituto de Geofísica, Manejo de cuencas.

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Oropeza Orozco, Oralia, Maestra en Ciencias, Vulnerabilidad y riesgos naturales — Actores sociales.

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Ortiz Pérez, Mario Arturo, Doctor en Geografía, UNAM — Geomorfología estructural.

Osorno Covarrubias, Javier, Maestro en Ciencias de la Computación, Ciencia y tecnología de la información geográfica.

Padilla y Sotelo, Lilia Susana, Doctora en Geografía, UNAM — Geografía de la población y del ambiente.

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Ramírez Herrera, María Teresa, Doctora en Ciencias Geológicas, The University of Edinburgh, United Kingdom — Dinámica y evolución del relieve.

Ramírez Ramírez, Isabel, Doctora en Geografía, Facultad de Geografía e Historia. Universidad Complutense de Madrid — Dinámica de la vegetación.

Reyna Trujillo, Teresa de Jesús, Doctora en Ciencias, UNAM — Biogeografía.

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Sánchez Salazar, María Teresa, Doctora en Geografía, UNAM — Ordenamiento territorial.
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Suárez Lastra, Manuel, Doctor en Geografía, UNAM — Estructura urbana y transporte.
Urquijo Torres, Pedro Sergio, Maestro en Historia — Historia ambiental.
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Zavala Vaca, Hugo, Maestro en tecnologías de la información — SIG.

NICARAGUA

UNIVERSIDAD NACIONAL AUTÓNOMA DE NICARAGUA, MANAGUA

UNAN – MANAGUA
RECINTO UNIVERSITARIO "RUBÉN DARÍO"
FACULTAD DE HUMANIDADES Y CIENCIAS JURÍDICAS
DEPARTAMENTO DE GEOGRAFÍA
GRADO OFRECIDO: Licenciado en Geografía
DIRECTOR: Magister Ramón Dávila José
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Programa de Licenciatura en Geografía
El Departamento de Geografía como unidad académica perteneciente a la UNAN-Managua, brinda y aporta a la sociedad Nicaragüense la formación de profesionales geógrafos con capacidad para comprender, relacionar y aplicar los aspectos fundamentales de la ciencia geográfica, fomentando en ellos el compromiso social hacia el desarrolloy aplicación de valores éticos, morales, humanistas, en defensa y protección del medio ambiente, los que les permitirá tomar decisiones adecuada para solucionar los problemas generados de la relación hombre-naturaleza.

El Departamento de Geografía cuenta con un cuerpo docente que enseña la Carrera de Geografía a nivel de Pregrado, Educación Continua y Posgrado, realizando investigaciones y extensión universitaria, tal como lo plantea la Misión y Visión de nuestra institución y nos enfocamos en cinco líneas de investigación las cuales están dirigidas a:

- El estudio sobre los Potenciales Turísticos que presenta el Territorio Nacional.
- El análisis de las condiciones medioambientales de las localidades.
- Estudios sobre la problemática de la enseñanza y aprendizaje de la ciencia geográfica.
- Las condiciones socioeconómicas presentadas por las poblaciones urbanas y rurales de Nicaragua.
- El Aspecto Físico –Geográfico de las diferentes regiones del país.
- Estudio sobre el espacio geográfico y el ordenamiento territorial nicaragüense.

El Perfil del Licenciado en Geografía comprende las siguientes competencias profesionales:

- Geógrafo-Investigador
- Capacitador Geográfico
- Promotor para la Protección y Conservación del Medio Ambiente
- Promotor de la prevención de Catástrofes Naturales y Sociales
- Planificador y Ordenador Territorial
- Formulador y Evaluador de Proyectos
- Gestor del Desarrollo Comunitario
- Planificador y Gestor de los Sistemas de Información Geográfica

PROFESORES:
Claustro Docente que Integran el Departamento de Geografía de la UNAN – Managua.
Blandón Chavarría Lissette Carolina, Licenciada en Geografía UNAN – Managua.
Cortés Castillo Lidia María, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Didáctica Especial, U.A.B. España.
Brenes Cano Francisca Amparo, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Población y Medio Ambiente, U.A.B. España.
Dávila José Ramón, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Didáctica Especial, UNAN - Managua.
D Trinidad Almanza Ana María, Licenciada en Geografía UNAN – Managua.
Delgado Alemán Dimas Antonio, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Metodología de la Investigación, U.A.B España.
Espinoza Rivera Samanta María, Licenciada en Geografía UNAN – Managua.
Jirón García Alfonso, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Metodología de la Investigación, U.A.B España.
Mena García Bertha Adilia, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría de Ciencias en Geografía, WKU-USA, Wester
Picado Juárez Eduardo, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Medio Ambiente, U.A.B. España.
Rivas Rivas Enrique Ernesto, Licenciado en Geografía UNAN – Managua.
Úbeda Trujillo Ingrid Elizabeth, Licenciada en Geografía UNAN – Managua.

PANAMA

UNIVERSIDAD AUTONOMA DE CHIRIQUI

FACULTAD DE HUMANIDADES
DEPARTAMENTO DE GEOGRAFÍA
FUNDADO EN: 1974
DIRECTOR: Magíster RODRIGO MARTÍNEZ

PARA MAYOR INFORMACIÓN: Magíster Rodrigo Martínez, Universidad Autónoma de Chiriqui, Facultad de Humanidades, Departamento de Geografía, Estafeta Universitaria, República de Panamá, Provincia de Chiriqui, Ciudad de David Teléfonos (507) 774-5194, Extensión 111, Correo Electrónico: rodmart1@hotmail.com.

LICENCIATURAS: Licenciatura en Geografía e Historia, Licenciatura en Recursos Naturales, Licenciatura en Turismo con dos énfasis: 1) Turismo Ecológico, 2) Turismo en Hotelería y Restaurante

MAESTRÍAS: Maestría en Geografía, Maestría en Recursos Naturales, Maestría en Turismo

PROGRAMA DE LICENCIATURA EN GEOGRAFÍA E HISTORIA
Director: Magíster Rodrigo Martínez
Esta carrera ofrece las bases para obtener una clara comprensión del medio geográfico integralmente, la superficie terrestre y sus regiones constitutivas, así como también la interacción existente entre ese medio y la vida humana con sus acontecimientos a través de los distintos períodos históricos. El estudio de la Geografía va asociado al de Historia y en su estructuración aparece igual número de asignaturas y créditos para ambas disciplinas, cuyo plan de Estudio lo integra Lengua y Literatura Española, Panamá en el Mundo Americano, Introducción a la Filosofía, Introducción a las Ciencias Naturales, Inglés, Francés, Introducción a las Ciencias Políticas, Principios de Geografía, Principios de

Sociología, Geografía Matemática, Geografía Humana I y II, Geografía Física I y II, Introducción a la Cartografía, Geografía Política, Metodología y Técnica de la Investigación Geográfica, Geografía Regional de Panamá, Geografía Regional de América, Geografía Regional de Eurasia, Africa y Oceanía, Relaciones de Panamá y Estados Unidos, Historia de Oriente, Grecia y Roma, Antropología, Prehistoria de Panamá, Historia de la Época Hispánica, Etnografía de Panamá, Historia de la Edad Media, Historia de Panamá Unión a Colombia, Historia de Panamá Época Republicana, Historia Moderna, Historia Contemporánea, Historia de las Ideas en América y Trabajo de Graduación.

PROGRAMA DE LICENCIATURA EN RECURSOS NATURALES
Directora: Magíster Janeth Valenzuela
La Licenciatura en Recursos Naturales está amparada por la Idoneidad Profesional que le ha sido otorgada por el Consejo Técnico Nacional de Agricultura, lo cual le permite a los egresados de esta importante carrera, ejercer en todo el territorio nacional. El programa comprende: Química Básica, Biología General, Cálculo Diferencial, Informes, Inglés Técnico, Historia de Panamá, Geografía de Panamá, Introducción al Análisis Químico, Bioestadística, Recursos Naturales de Panamá, Metodología de la Investigación Científica, Ecología Humana y Ambiental, Informática, Mediciones Forestales, Biometría de los Recursos Naturales, Ecosistemas Costeros, Manejo de Áreas Silvestres, Agroecosistemas, Planificación de Aguas y Riego, Silvicultura, Transferencia y Extensión Ambiental Comunitaria, Inventario y Evaluación de Recursos Naturales, Agroforestería, Manejo de Agroquímicos, Contaminación Ambiental, Geografía Física, Producción Forestal, Gestión Administrativa Aplicada a los Recursos Naturales, Educación Ambiental, Fuentes Alternas de Energía, Economía Agrícola, Estudios de Impacto Ambiental ,Mitigaciones Ambientales, Valoración y Sostenibilidad de los Recursos Naturales, Biodiversidad, Legislación de los Recursos Naturales, Formulación y Proyectos Ambientales y Trabajo de Graduación.

PROGRAMA DE LICENCIATURA EN TURISMO
Directora: Magíster Luis Hervey
El programa comprende: Introducción al Turismo, Informática aplicada al Turismo, Inglés Conversacional, Redacción y Elaboración de Informes, Biología General, Educación Física, Geografía de Panamá, Geografía Turística Mundial, Contabilidad Fundamental, Geografía Turística de Panamá, Métodos y Técnicas de Investigación., Historia de Panamá, Admón. de Empresas Turísticas, Cartografía Digital, Admón. de Recursos Humanos, Planificación Elaboración y Evaluación de Proyectos Turísticos, Sistema de Información Geográfica, Mercadeo Turístico, Sociología Turística, Geografía Económica, Relaciones Humanas, Agroturismo, Promoción Turística.

ENFASIS EN TURISMO ECOLOGICO
Manejo de Parques y Áreas Silvestres, Ecología de Panamá, Legislación Turística, Fitogeografía, Zoogeografía, Inglés Conversacional IV, Trabajo de Graduación.

ENFASIS EN HOTELERIA Y RESTAURANTE
Gastronomía y Bebidas, Inglés Conversacional IV, Admón. de Agencias de Viajes, Administración Hotelera, Relaciones Públicas Aplicadas al Turismo, Administración de Restaurantes, Itinerarios y Transporte, Tecnología de Hospedaje, Trabajo de Graduación.

MAESTRÍAS:
PROGRAMA DE MAESTRÍA EN MANEJO Y CONSERVACIÓN DE LOS RECURSOS NATURALES Y DEL AMBIENTE.
Coordinadora: Magíster Janeth Valenzuela.
Busca elevar el nivel académico e investigativo de los docentes y profesionales en ejercicio mediante la adquisición de metodología y técnicas en el Manejo Conservación de los Recursos Naturales y del Ambiente. El programa comprende: Agroecología Avanzada, Metodología de la

Investigación Científica, Experimentación Avanzada, Legislación Ambiental, Sistema de Información Geográfica Aplicada al Manejo de los Recursos Naturales, Biogeografía Neotropical, Contaminación Ambiental, Manejo de Suelos y Agua, Manejo de Vida Silvestre y Espacios Naturales, Auditoria y Evaluación de Impacto Ambiental, Zonificación Agroecológica y Ordenamiento Ambiental, Formulación y Evaluación de Proyectos Ambientales, Gestión Ambiental, Opción de Graduación.

SEMINARIOS DE LA MAESTRÍA
Informática, Lengua Extranjera, Bioética.
* Idoneidad otorgada por el Consejo Técnico Nacional de Agricultura (CTNA).

PROGRAMA DE MAESTRÍA EN GEOGRAFÍA CON ÉSPECIALIDAD EN GEOGRAFÍA REGIONAL DE PANAMÁ.
Coordinador: Magíster Roque A. Largota G.
La expresión "Geografía Regional de Panamá", condensa el propósito general: pensar en la evolución del desarrollo natural y regional de las sociedades en su contexto territorial, prestando particular importancia a los problemas humanosambientales y proponiendo opciones desde el punto del ordenamiento territorial. El programa comprende: Geografía Regional de Panamá y América Central, Geografía Cuantitativa, Cartografía y Análisis Espacial, Geografía de la Población de Panamá,

Geografía Física de Panamá Recursos Naturales de Panamá, Geografía

Económica de Panamá, Geografía Regional de Panamá, Introducción al SIG y Teledetección, Cartografía Digital, Ordenamiento Territorial, Elaboración de Proyectos de Investigación I, Elaboración de Proyecto de Investigación II, Trabajo de Graduación.

SEMINARIOS DE LA MAESTRÍA
Metodología de la Investigación Geográfica, Informática, Inglés.

PROGRAMA DE MAESTRÍA EN TURISMO.
Coordinador: Magíster Roque A. Largota G.
Objetivos:
Formar profesionales con los elementos teóricos, metodológicos y técnicos que le permitan desempeñarse con eficacia y eficiencia en la administración, dirección y planificación; en empresa, organizaciones e instituciones a la promoción y prestación de servicios turísticos así como en organismos públicos de gestión turística. El programa comprende: Turismo Sostenible, Elementos para el diseño Curricular del Programa de la Asignatura, Inventario del Producto Turístico, Desarrollo Turístico Local, Estadística Aplicada al Turismo, Formulación y Evolución de Proyectos Turístico, Gestión Estratégica del Turismo, Turismo Recreativo, Turismo Geográfico Histórico, Turismo Urbano o Metropolitano,

Turismo Ecológico, Turismo Rural y Agroturismo, Trabajo de Grado-Examen General de Conocimiento/Práctica Profesional/Tesis/Seis Créditos de Doctorado.

SEMINARIOS DE LA MAESTRÍA
Ética del Profesional del Turismo, Informática Aplicada, Lengua Extranjera.

PROFESORES DEL DEPARTAMENTO DE GEOGRAFÍA:
Magíster Ascela Aguína – Panamá Chiriquí, David. Universidad de Cartago
Magíster Michelle Carrillo – Panamá Chiriquí, David. Universidad de Cartago
Magíster Luis Hervey – Panamá Chiriquí, David. Universidad de Cartago
Ingeniero, Magíster Domingo Espinosa – México, Universidad Autónoma Agraria "Antonio Narro"
Ingeniero, Magíster Amael Jiménez – Costa Rica. CATIE
Ingeniero, Magíster Cornelio Franco – México, Universidad Autónoma Agraria "Antonio Narro"
Ingeniero Jarvi Quiel – Panamá Universidad de Panamá
Magíster Rodrigo Martínez – México, UNAM, Geógrafo. Especialista en Evaluación y Conservación de Recursos Naturales
Magíster Gloria E. Hernández de Martínez – México, UNAM, Geógrafa.Especialista en Evaluación y Conservación de Recursos Naturales
Magíster Yolanda del C. Aizpurúa – Panamá, UNACHI. Geógrafa, S.I.G.
Magíster Arabella C. de Atencio – Panamá, UNACHI. Geógrafa, S.I.G.
Magíster Octavio Caballero – Panamá, UNACHI. Geógrafo
Licenciada Edna R. Villamonte de Castillo – Panamá, UNACHI. Geógrafa
Magíster Luis A. Diez Ríos – Panamá, UNACHI. Geógrafo, S.I.G.
Magíster Catalina Espinosa – Panamá, UNACHI. Geógrafa, S.I.G.
Magíster Antonia Ríos de Gutiérrez – Panamá, UNACHI. Geógrafa, S.I.G.
Magíster Alexis J. Jiménez B. – México, UNAM. Geógrafo con Especialidad en Evaluación y Conservación de Recursos Naturales
Magíster Roque A. Lagrotta G. – Costa Rica, CATIE. Recursos Naturales
Magíster Adalides Lezcano C. – España Universidad Compultense de Madrid Geógrafa
Magíster Porfirio Navarro J. – Costa Rica, UCR. Geógrafo
Magíster Mirza E. Palacios L. – Panamá, UNACHI. Geógrafa, S.I.G.
Magíster Arturo J. Ríos G. – USA, INDIA. Geógrafo
Licenciada India Y. Ríos G. – Panamá, UNACHI. Geógrafa, S.I.G.
Magíster Janeth M. Valenzuela F. – Costa Rica, UCR. Geógrafo. S.I.G.

UNIVERSIDAD DE PANAMÁ

FACULTAD DE HUMANIDADES
DEPARTAMENTO DE GEOGRAFÍA
ESCUELA DE GEÓGRAFO PROFESIONAL
REPÚBLICA DE PANAMÁ, CIUDAD DE PANAMÁ
DATE FOUNDED: 1978
DEGREES OFFERED: Licenciatura en Geografía. Geógrafo Profesional
HEAD: Elías López Otero, M Sc.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Universidad de Panamá, Facultad de Humanidades, Departamento de Geografía, Escuela de Geógrafo Profesional, Estafeta Universitaria, República de Panamá, Ciudad de Panamá. Elías López Otero, Apartado Postal 0819-10508, El Dorado, Panamá, Panamá. Teléfonos: (507) 523-6614 or (507) 523- 6615 or (507) 6629-9068.
Email: panamageo@yahoo.es / panamageo@gmail.com

PROGRAMS AND RESEARCH FACILITIES: El Geógrafo Profesional de Panamá tiene su campo ocupacional en Instituciones Públicas, Privadas, Organizaciones No Gubernamentales y Grupos Consultores, relacionado con Planificación, Medio Ambiente, Evaluaciones de Impacto Ambiental, Manejo de Cuencas, Manejo Costero Integrado, Cartografía, Estudios Urbanos y Rurales, Planificación Turística, Ordenamiento Territorial, Análisis Demográfico, Teledetección, y Sistema de Información Geográfica, Gestión de Riesgos, Mitigación y Reducción de Desastres, entre otras. La formación Académica del Geógrafo Profesional se desarrolla mediante la integración en su Plan de Estudios de 5 Áreas académicas e instrumentales básicas, identificadas con sus respectivas asignaturas.

ÁREAS DE CIENCIAS BÁSICAS:
Matemáticas, Física, Química, Botánica, Estadística.

ÁREAS DE CIENCIAS GEOGRÁFICAS:
Geomorfología, Geología, Meteorología, Climatología, Biogeografía, Geografía Rural, Geografía Urbana, Geografía Cuantitativa, Geografía de Panamá, Hidrografía

ÁREAS DE FORMACIÓN TÉCNICA INSTRUMENTAL:
Cartografía, Cartografía Temática, Fotointerpretación, Topografía y Geodesia, Sistema de Información Geográfica, Sensores Remotos (Teledetección) Planificación de Recursos Hídricos.

ÁREAS DE FORMACIÓN EN GESTIÓN TERRITORIAL AMBIENTAL:
Planificación Regional, Evaluación y Conservación de Recursos Naturales, Geoecología en Zonas Tropicales, Problemas Geográficos de Países en Vías de Desarrollo, Ordenamiento Territorial, Evaluación de Riesgos y Mitigación de Desastres Naturales.

ÁREAS DE CIENCIAS SOCIALES Y CULTURALES:
Historia, Economía, Sociología, Filosofía de la Ciencia, Antropología.

FACULTY:
Cedeño, Héctor, Geógrafo, M Sc. Universidad de Panamá — Cartografía Censal, Ordenamiento Territorial

De León, Israel, Geógrafo, Candidato a Magíster Universidad Santa maría La Antigua — Geografía Física y Ecología Tropical
Espinoza, Dalis, Ingeniera Civil, M Sc. Universidad Tecnológica de Panamá — Hidrología y Estadística
López, Elías, Geógrafo, M Sc. Universidad de Costa Rica — Ordenamiento Territorial, Gestión Ambiental y Gestión de Riesgos
Luque, Virgilio, Dr. Geologìa — Geomorfología, Geología y Derecho
Molo, Julio, Dr. Boudeaux, Francia — Geografía y Ecología Tropical
Mata, Jaime J. Geógrafo, Universidad de Chile — Biogeografía
Meza, Everardo, Ingeniero Civil y Topógrafo. Universidad Tecnológica de Panamá — Topografía y Geodesia
Martínez, Raúl. Geógrafo, M Sc. Universidad de Alcalá, España — Teledetección, Sistemas de Información Geográfica y Cartografía
Ramos, Raúl, Geógrafo, Candidato a Magíster. Centro de Investigaciones Ambientales y Territoriales (CIDIAT), Mérida, Venezuela — Gestión Ambienta y Estudios de Impacto Ambiental
Vargas, Enrique, Geógrafo. Magíster. Universidad Tecnológica de Panamá — Desarrollo Urbano y Regional

PARAGUAY

UNIVERSIDAD NACIONAL DE ASUNCIÓN, PARAGUAY

FACULTAD DE INGENIERIA
CARRERA DE INGENIERIA EN CIENCIAS GEOGRAFICAS
REPUBLICA DEL PARAGUAY, SAN LORENZO
DATE FOUNDED: 8 de febrero de 1979
DEGREES OFFERED: Licenciatura e Ingeniería en Ciencias Geográficas

POINT OF CONTACT: *Decano* Prof. Ing. Carlos H. Dellavedova. Email: chdellavedova@ing.una.py. *ViceDecano* Prof. Ing. Isacio Vallejos. *Director de Carrera* Prof. Ing. Lorenzo Antonio Centurión, email: centurion@ing.una.py, lcenturion@highway.com.py. *Prof. Ing. Rubén Darío Falcón*: rubendariofalcono@yahoo.com. Website: http://www.ing.una.py.

FOR FURTHER INFORMATION WRITE TO: Universidad Nacional de Asunción, Facultad de Ingeniería, Carrera de Ciencias Geográficas, Campus Universitario, San Lorenzo-Paraguay. Teléf: 595 21 585581/4. info@ing.una.py.

PROGRAMS AND RESEARCH FACILITIES:
***La Facultad de Ingeniería*:** La Facultad de Ingeniería de la Universidad Nacional de Asunción se constituye en una referencia en la formación de ingenieros paraguayos, con casi ocho décadas de tradición académica. Los egresados de la FIUNA son ampliamente reconocidos por su sólida base teórica, complementada con un constante interés en la actualización en el estado del arte de las diversas ramas de la ingeniería ofrecidas: Ingeniería Civil, Electromecánica, Industrial, Electrónica y en Ciencias Geográficas. En el año 2006 se ha lanzado con gran expectativa la carrera de Ingeniería Mecánica. Desde su creación como 'Facultad de Ciencias Físicas y Matemáticas', la FIUNA y sus egresados han sido protagonistas principales en el desarrollo de la ingeniería paraguaya, tanto en el campo privado como en las instituciones estatales, resaltando especialmente en los grandes emprendimientos como las represas hidroeléctricas de, Yacyreta y Acaray, obras viales, etc.

La carrera de Ciencias Geográficas: En sus inicios fue creada como *Instituto de Ciencias Geográficas* por resolución N° 1538-02-79 del Honorable Consejo Superior Universitario de la Universidad Nacional de Asunción Acta Nº 382 en fecha 8 de febrero de 1979 e inicio sus actividades en el año 1979. Este Instituto conforme lo establece el Estatuto vigente, paso a depender Académica y Administrativamente de la Facultad de Ingeniería desde febrero del año 2000.

Perfil General: El ingeniero en Ciencias Geográficas es un profesional con formación Técnico-Científico capacitado para estudiar, evaluar, investigar, interpretar, analizar y proponer alternativas para el ordenamiento, la planificación territorial, la administración de los Espacios Geográficos, el uso racional de los recursos naturales y del medio socioambiental.

BECAS: Inscripciones a cursos, seminarios, congresos.
Requisitos:
Las Becas serán otorgadas a los estudiantes que reúnan los siguientes requisitos: 1. Estar matriculado en el período académico correspondiente. 2. Ser de nacionalidad paraguaya. 3. Registrar un promedio académico no inferior al 70 % o pertenecer al 25% de los mejores promedios en el período académico inmediato anterior, en cada caso. 4. Haber cursado y aprobado un mínimo de materias, no menor a 3, y mayor o igual al 50% de las asignaturas en las que se matriculó en el período inmediato. Para el caso de los ingresantes en su primera matriculación, haber obtenido como mínimo, en los Exámenes de Admisión un puntaje mínimo equivalente al 80% del total posible.

PERU

PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ

FACULTAD DE LETRAS Y CIENCIAS HUMANAS
ESPECIALIDAD DE GEOGRAFÍA Y MEDIO AMBIENTE
REPÚBLICA DEL PERÚ, LIMA
DATE FOUNDED: 1987
DEGREES OFFERED: Bachiller en Humanidades con mención en Geografía y Medio Ambiente. Licenciado en Geografía y Medio Ambiente (equivalente al título profesional de Geógrafo)
HEAD: Dr. Carlos Tavares Correa

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIÓN, FAVOR DE ESCRIBIR A: Dr. Carlos Tavares Correa, Coordinador de la Especialidad de Geografía y Medio Ambiente, Facultad de Letras y Ciencias Humanas; Pontificia Universidad Católica del Perú. Avenida Universitaria 1801, Lima 32, Perú. Tel. (511) 626 2000 anexo 4539, FX: (511) 626 2804. Email: ctavare@pucp.pe

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La especialidad de Geografía y Medio Ambiente estudia los fenómenos físicos y humanos que ocurren en la superficie terrestre, de cuya interacción resultan, en gran medida, las formas de ocupación del territorio y calidad del ambiente de los lugares. Se ofrece una formación integral que permite a sus egresados ser especialistas en localizaciones de actividades económicas y de impactos ambientales. Se ofrece un ambiente universitario acogedor y un gabinete de estudios para que los estudiantes puedan desarrollar sus proyectos de tesis y tareas de clase. También está el Centro de Investigación en Geografía Aplicada que genera información y conocimiento del espacio nacional y pone en valor la investigación geográfica para el

desarrollo regional y local del Perú. Los egresados pueden desempeñarse con facilidad y eficacia en el entendimiento de los fenómenos geográficos, ya sean físicos o humanos, a escala local, regional o global, lo que agiliza una adecuada toma de decisiones sobre asuntos de gestión territorial y ambiental. Actualmente vienen trabajando eficientemente en departamentos de planificación y organización del territorio de la administración pública, gobiernos locales, ONGDs dedicadas a temas ambientales, consultorías sobre temas geográficos, y docencia universitaria.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN: Para ingresar a la especialidad de Geografía y Medio Ambiente (seis ciclos), los alumnos deben haber completado los cuatro ciclos de Estudios Generales Letras o Ciencias. Luego completar 130 créditos de los cuales, 106 son obligatorios, 15 electivos y 09 de libre disponibilidad. Los créditos obligatorios se distribuyen en Geografía Física (31), Geografía Humana (22), Técnicas de investigación y gestión (33), de Integración entre geografía física y humana (20). Esta formación balanceada permite a los egresados poder trabajar indistintamente en el área de geografía cultural o de geografía física, sin mayores dificultades.

PROFESORADO:

Bernex, Nicole, Dra, Geógrafa, Université de Montpellier — planificación urbana, geografía minera, percepción ambiental, educación ambiental, teledetección

Chiarella Quinhoes, José Américo Roberto, Dr. Geógrafo, Universidad de Rio de Janeiro — planificación nacional, regional, local

Córdova Aguilar, Hildegardo, Ph.D, Geógrafo, University of Wisconsin-Madison — biogeografía, geografía económica, desarrollo rural, problemas urbanos

Goluchowska, Katarzyna, Dra. Geógrafa, Universidad de Varsovia — Técnicas cuantitativas

Gonzales Hunt, Fernando. Ph.D, Geógrafo, University of Wisconsin Madison — geografía cultural, técnicas de investigación, ecología humana

Nagata Shimabuku, Miriam, M.Sc. Geógrafa, Université de Liége, University of Syracuse — GIS, cartografía

Novoa Goicochea, Zaniel, Magister, Ingeniero Geógrafo, Universidad Federico Villareal y PUCP — Planificación rural, ecogestión de fronteras

Sabogal Dunin Borkowska, Ana. Dra. En Ecología, Technische Universitat Berlin, Aelmania. Ing. Agrónoma. — *Economía vegetal*

Silva Vidal, Yamina, Dra. Ciencias Atmosféricas — Meteorología, climatología

Tavares Correa, Carlos, Dr. Geógrafo, Universidade de Sao Paulo — Estudios Ambientales de zonas litorales, hidrología, edafología

Timaná de la Flor, Martín Enrique. Ph.D. Biólogo, University of Texas at Austin, Texas. — Ecología, recursos forestales

UNIVERSIDAD NACIONAL MAYOR DE SAN MARCOS

MAESTRÍA EN GEOGRAFIA: Mención en "Gestión y Ordenamiento Territorial"

PROGRAMA DE MAESTRADO FUNDADO EN: 1995. Con la mención en "Gestión y Ordenamiento Territorial" desde el 2003

TITULOS OFRECIDOS: Magister

DIRECTOR DE LA UNIDAD DE POSTGRADO FACULTAD DE CIENCIAS SOCIALES: Dr. Valdemar Espinoza

COORDINADORA DE LA MAESTRÍA EN GEOGRAFÍA: Dra. Alicia Huamantinco

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Dra. Alicia HUAMANTINCO Coordinadora de la Maestría en Geografía Unidad de Postgrado de Facultad de Ciencias Sociales, Universidad Nacional Mayor de San Marcos. Ciudad Universitaria Avenida Venezuela s/n. Telefono 00511 6197000 anexo 4003

PROGRAMAS E INSTALACIONES DE INVESTIGACION: 1) Convenio de cooperación académica para el desarrollo de los estudios de geografía a nivel de postgrado entre la UNMSM y la Universidad Paris 1, Francia 2) Programa de investigaciones "Dinámicas Territoriales en la Periferia de Lima Metropolitana" convenio entre la UNMSM y Agence National de Recherche ANR de Francia

PLAN ACADEMICO, REQUISITIOS DE ADMISION, AYUDA FINANCIERA:

Primer Semestre: Teoría y Método de la Geografía, Medio Físico-Geográfico, Sociedad, Economía y Territorio, Impacto Ambiental, Riesgos y Vulnerabilidad

Segundo Semestre: Seminario: Desarrollo Sostenible y Planeamiento Estratégico, Ordenamiento Territorial - Teoría y Método, Legislación para el Ordenamiento y Gestión del Territorio, Taller de Investigación I

Tercer Semestre: Información y Recursos Técnicos para el Ordenamiento, Gestión del Ordenamiento Territorial, Taller de Investigación II

Cuarto Semestre: Temas Sociales Avanzados, Seminario: Propuesta de Ordenamiento Territorial, Taller de Investigación III

PROFESORADO:

Alicia Huamantinco Doctor Universidad Federal de Rio de Janeiro Brasil
Hildegardo Córdova PhD Universidad de Wisconsin EEUU
Katarzyna Goluchowska Doctor Universidad de Varsovia, Polonia
Omar Landeo, Doctor Universidad Paris 1 Sorbona
Pierre Foy Valencia, Doctor Universidad del País Vasco, España
Manuel Dammert Ego Aguirre, Magister
Raúl Lizárraga Bobbio, Magister
Juan Meléndez de la Cruz, Magister
Fausto Asencio, Magister
Juan Guerrero, Magister
Luz Consuelo Muguruza, Magister
Rita Andrade, Magister

PUERTO RICO

UNIVERSITY OF PUERTO RICO

DEPARTMENT OF GEOGRAPHY
DATE FOUNDED: Program, 1945; Department, 1968
DEGREES OFFERED: Bachelors
STUDENTS: Undergraduates, 145
CHAIR: Ángel David Cruz Báez
DEPARTMENT SECRETARY: Evelyn Ramos Cosme

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Ángel David Cruz Báez, Chairman, Department of Geography, College of Sociales Sciences, , University of Puerto Rico, P.O. Box 23345, San Juan, 00931-3345. Telephone Number: 787 764 0000, exts. 4164 and 2479; Fax Number: 787 773 1709; e-mail address: geografía@uprrp.edu.

PROGRAMS AND RESEARCH FACILITIES: As the only Department of Geography in Puerto Rico, it is the main center for geographic education and research in the Island. Its mission is to offer good quality education with the objective of preparing students to continue graduate studies or to work in the public and private sector. It does this by introducing students to the main traditions in Geography through different approaches: lectures, seminars, field work, field trips and scientific research. It is equipped with a computer cartography, gis, and remote sensing laboratory and offers continued education trough a certificate in GIS and seminars in special topics. It also collaborates with different Geography

Departments in the United States by coordinating field trips, exchange students, and by individually working with students who do graduate research in Puerto Rico.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Undergraduate, 4 years. *Admission requirements:* interests in the field coincident with those of the Department, and evidence of competence and fulfillment of general admission requirements to the Río Piedas Campus of the University of Puerto Rico. *Financial Aid*: Pell grants and Federal student loans to qualifying students.

FACULTY:

Ángel David Cruz Báez, PhD., Wisconsin-Madison (1977), professor and chairman — agricultural geography, computer cartography, geographic information systems, remote sensing and quantitative methods.

Martiza Barreto Orta, PhD, University of Puerto Rico-Mayagüez (1995) — marine geology and coastal geomorphology.

Carlos J. Guilbe López, PhD., Wisconsin-Milwuakee (1999) — land use and urban development, urban transportation and spatial models, retail activities (shopping centers), sports geography.

Carlos E. Severino Valdez, Dr. rer.nat., Humboldt University-Berlin, (1993), professor and Dean of Social Sciences — urban geography, political geography, economic development.

Francisco Watlington Linares, PhD., Gainesville (1990) — neotropical tropical viticulture, antropogeography of Puerto Rico, historical geography of the New World.

ADJUNCT FACULTY:

José M. Long Mulet, Juris Doctor, Interamerican University of Puerto Rico, M. Public Health, University of Puerto Rico, San Juan — geography and law, population geography

Irvia E. Toledo Rodríguez, M.A. Akron — cartography, geographic information systems

TRINIDAD AND TOBAGO

UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE

FACULTY OF ENGINEERING
DEPARTMENT OF GEOMATICS ENGINEERING AND LAND MANAGEMENT
DATE FOUNDED: 1983

DEGREES OFFERED: BSc. Geomatics, BSc. Land Management (Valuations), MSc. Geoinformatics, MSc.Urban and Regional Planning; Certificate in Geographic Information System; Postgraduate Diploma in Land Administration.

CONTACT PERSONS: Dr. Bheshem Ramlal, Head of Department. bheshem.ramlal@sta.uwi.edu; Ms Monique Joseph, Secretary, geomaticsengineering.andlandmanagement@sta.uwi.edu.

CONTACT ADDRESS: Department of Geomatics Engineering and Land Management, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad, West Indies. Phone: 18686622002 ext 82108/82109, Fax: 18686624414, Email: geomaticsengineering.andlandmanagement@sta.uwi.edu, Website: http://sta.uwi.edu/eng/surveying/index.asp

PROGRAMS AND RESEARCH FACILITIES: The Department offers several programs to cater to the needs of the Caribbean region. These include a BSc. Geomatics, a BSc. Land Management (Valuations), MSc. Geoinformatics, MSc. Urban and Regional Planning, Certificate in Geographic Information Systems, Postgraduate Diploma in Land Administration, Master of Philosophy and Doctorate in Geoinformatics, in Urban and Regional Planning and in Surveying and Land Information. The Department through its program offerings and its research focuses on addressing the growing needs of the Caribbean region for Geomatics, Land Management, GIS and Physical Planning professionals and for related solutions. This is especially significant as many small island states are continuing their efforts towards sustainable development and economic prosperity even in light of scarce resources due to the global economic slowdown and the threat of global climate change and sea level rise. These objectives require professionals who understand the spatial characteristics of, and the social, legal, economic, institutional and technical issues related to land and marine resources management. Furthermore they must have the education, methodologies and training to gather, manage, and analyze and use this information and contribute to the decision-making process effectively by developing various options for decision makers amongst others.

The Department has access to a wide array of facilities to support it academic programs and research efforts. The university has a modern library with an extensive collection of books and online databases that are available to students and researchers. In addition, the department has appropriate computer software, hardware and other equipment well suited to the needs of stakeholders.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System.Program duration: Undergraduate, 3 years; Master of Science, 18 months including Thesis; Master of Philosophy: 2-3 years, Doctor of Philosophy: 3-5 years including Dissertation.

Admission: Undergraduate Program: 6 Points on CAPE Examination or Equivalent; Graduate Programs: A BSc. degree in a related field with a GPA of 3.3 or higher. Financial Aid: Funding available to citizens of Trinidad and Tobago. Limited Funding available to Caricom Nationals.

FACULTY:

Opadeyi, Jacob, BSc, MSc (Lagos), MEng, PhD (New Brunswick), MBA (UWI), MRICS, Professor — Engineering Surveying, Geographic Information Systems, Land Administration

Al-Tahir, Raid, BSc (Baghdad), MSc, PhD (Ohio State), MASPRS (USA), MRSPS PSoc (UK), Senior Lecturer — Photogrammetry, Spatial Analysis, Remote Sensing

Mycoo, Michelle, BA (Hons) (UWI), MSc (Hong Kong), PhD (McGill), MTTSP, MISOCARP, Senior Lecturer — Land Use & Natural Resources Management, Coastal Zone Planning, Planning Law and Administration, Planning Analysis

Ramlal, Bheshem, BSc (UWI), PGDip, MSc (ITC Netherlands), PhD (Maine), Cert. Ed. (UBC), MISTT, MRICS, Senior Lecturer — Cartography, Geographic Information Systems, Surveying

Davis, Dexter, BSc (Hons) (UWI), PhD (Newcastle-upon-Tyne), MISTT, Lecturer — Surveying, Digital Photogrammetry, Geodesy, Adjustment, GNSS

Griffith-Charles, Charisse, BSc, MPhil (UWI), PhD (Florida), MISTT, MRICS, Lecturer — Cadastral Systems Surveying, Cartography, Land Administration

Mohammed, Asad, BSc (Hons) (Waterloo), MRP, PhD (Cornell), MTTSP, Lecturer — Planning & Development, Human Settlements, Land Administration

Sutherland, Michael, Dip. C.S. (CAST, now UTEC), (Hons) MSc, PhD (New Brunswick), MISTT, MCIG, MRICS, Lecturer — Land Information Management

Taylor, Patrice B.Arch. (Tuskegee), MSc (Maryland), Lecturer (Graphics & Design Studio) Blaize, Colvin BSc (UWI), LLB (Univ of London), External Lecturer — Land Law

Boynes-Bardouille, Denía, BSc (UWI), DipEd (UWI) PG Certificate-Education Studies (UWI), External Lecturer — Statistics

Charles, Ainsley, BSc. Surveying and Land Information (UWI), TTLS, MISTT, External Lecturer — Surveying Practice

Grant, Ian BSc (UWI), External Lecturer — Engineering Surveying

Khan, Kameel, BSc (Polytechnic, London), FRICS, External Lecturer — Valuation

Ramos, Ria, BSc (Hons) (UWI), MSc (South Bank), External Lecturer — Valuation

Sultanti-Maharaj, Shelly, BSc, MSc (UWI), External Lecturer — Introduction to Planning

Thomas, Deborah Heather-Dawn, BA, MSc (Oxford Polytechnic), PhD (Cambridge), Lecturer — Planning & Development

URUGUAY

ASOCIACIÓN NACIONAL DE PROFESORES DE GEOGRAFÍA-URUGUAY

TIPO DE INSTITUCION: Privada, sin fines de lucro
ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Educación; Proporcionar servicios técnicos en materia geográfica y educación
FECHA DE FUNDACION: 23 de setiembre de 1967
REVISTA: Geoespacio
SITIO WEB: www.anpg.org

PARA MAS INFORMACION CONTACTAR: Miguel Ligüera, Presidente de la asociación, Convención Nº 1382 oficina 101. Montevideo, Urugual. Telefono: 598- 29018730, Fax: 598- 29018730, anpg@adinet.com.uy anpg@yahoo.com.ar

ESTRUCTURA Y ORGANIZACIÓN: La estructura organizativa es la siguiente: Comisión Directiva; Asamblea Ordinaria y Extraordinaria; Comisión Fiscal; Comisión Electoral. Todos los cargos son honorarios.-Comisión Directiva: compuesta por siete miembros titulares e igual Nº se suplentes. Duran dos años y pueden ser reelectos por un sólo período más. Ejerce la dirección y administración de la Asociación, coordina actividades y servicios destinados a sus asociados- -Asamblea ordinaria: se reune anualmente para considerar memoria, balance y asuntos de interés según los fines de la Asociación.-Asamblea Extraordinaria:se reune por convocatoria de la Comisión Directiva o a requerimiento de un 15% o más de sus asociados.-Comisión Fiscal: la integran 3 miembros titulares con doble Nº de suplentes. Sura dos años y puede ser reelecta por dos períodos más. su función es vigilar la administración de la Asociación y revisión de los blances.-Comisión Electoral: se integra por 3 miembros titulares e igual Nº de suplentes. Dura dos años en su función. Tiene a su cargo lo relativo al acto eleccionario, escrutinio y determinación de los resultados, proclamando a las nuevas autoridades.

FINES: Proporcionar servicios técnicos en materia geográfica y educación, jerarquizando la Geografía a nivel Nacional. Se mantendrá ajena a toda tendencia política, religiosa y filosófica, pero tendrá una participación activa en el quehacer cultural de nuestro país. Propicia formas de comunicación permanente entre los docentes, investigadores e instituciones vinculadas a la Geografía. Fines particulares: Divulgación de técnicas didácticas; difusión de información científica, bibliográfica y metológica. Establecimiento de vínculos con instituciones públicas y privadas que tengan relación con los fines de la institución. Recopilar y difundir experiencias pedagógicas y de investigación. Elaborar material auxiliar al trabajo docente. Incentivar la redacción de trabajos de interés didáctico-científico. Organizar o asesorar trabajos de campo. Organizar encuentros, talleres, conferencias y congresos nacionales, regionales e internacionales.

PROGRAMAS QUE SE OFRECEN: Area de cartografía: cursos de actualización semi presenciales, sobre el uso de la cartografía y los sistemas de información en el nivel secundario. Area se Astronomía: cursillo de Contenidos astronómicos aplicables a los cursos de Geografía de nivel Secundario. Area de Geografía: jornadas de perfeccionamiento sobre Geografía aplicada, utilización de la informática y el trabajo con proyectos con alumnos de bachillerato.

MIEMBROS: Son integrantes de la Asociación los profesores de Geografía en actividad y jubilados residentes en el Uruguay.

EVENTOS ANUALES: Congreso de Geografía y Ambiente. Nacional e internacional (entre 130 y 250 personas asisten cada a**ño**

CENTRO REGIONAL DE PROFESORES DEL NORTE

DEPARTAMENTO DE GEOGRAFÍA
FECHA DE FUNDACION: 26 de Mayo de 1997
PROGRAMAS DE ESTUDIO: Grado asociado/técnico
SITIO WEB:
http://www.dfpd.edu.uy/cerp/cerp_norte/index.html

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIE A: María del Rosario Bottino Bernardi, Docente formadora de formadores en Geografía, Uruguay, Telefono: 46220717, Fax: 46220691, cerpnorte@gmail.com

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN El profesorado mención Ciencias Geográficas ofrece una formación integral que permite a sus egresados desempeñarse como docentes formadores en Geografía, en Enseñanza Media, tanto en la Educación Secundaria, como en las Escuelas Técnicas del país. Se ofrece un ambiente de formación terciaria acogedor, una biblioteca, con un área de estudio y un para que los estudiantes puedan desarrollar sus proyectos de investigación y tareas de clase. . Los egresados pueden desempeñarse con facilidad y eficacia en el entendimiento de los fenómenos geográficos, ya sean físicos o humanos, a escala local, regional o global, lo que agiliza una adecuada toma de decisiones sobre asuntos de gestión territorial y ambiental. PLAN DE TRABAJO DEL DEPARTAMENTO DE GEOGRAFÍA DEL CeRP DEL NORTE: Promover la formación geográfica de los aspirantes al profesorado con solvencia. Consolidar la formación académica permanente de los docentes. Profundizar las actividades de extensión. Promover la actividad de investigación. Ejercer la docencia colaborativamente

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Para ingresar a la carrera de profesorado de

Geografía, los alumnos deben haber completado Educación Secundaria. Luego completar cuatro años, en el que poseen un tronco común de asignaturas, compartidas por las otras opciones de profesorado, y que corresponden a las asignaturas de Ciencias de la Educación; y asignaturas específicas de la Geografía: Geografía Física, Geografía Humana, Geografía Económica, Cartografía, Astronomía para Geografía, Matemáticas para Geografía, Uruguay, Uruguay y la región , Latinoamérica, Países centrales, Países periféricos, Didáctica de la Geografía, Estructura del Mundo contemporáneo, Geología, Geopolítica, Evolución y métodos del pensamiento geográfico, Teoría geográfica; así como cuatro seminarios específicos en Geografía histórica, del Uruguay, Ordenamiento territorial y medio ambiente, Investigación en Geografía. Todas las asignaturas y seminarios son obligatorias; debiendo llegar a una calificación de 5, en una escala de notas del 1 al 12, para tener derecho a rendir examen; pudiendo exonerar, salvo Didáctica, si logran una calificación de 9. Esta formación les permite al egreso, desempeñarse como docentes formadores en Geografía, en Enseñanza Media, tanto en la Educación Secundaria, como en las Escuelas Técnicas del país. El Consejo de Formación en Educación brinda beca total o parcial a estudiantes que provengan de otros lugares de la región. Beca total incluye: residencia, comida y traslado a sus hogares cada 15 días; la beca parcial puede ser uno de los beneficios de la total.

DOCENTES

Prof. Carmen Pedezert, docente egresada del Instituto de Profesores Artigas, en la mención Astronomía. Directora Observatorio de Astronomía en la ciudad de Rivera- Astronomía para Geografía.

Prof. Gabriela Begino, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Maestrante en Didáctica de Educación Media — Geografía de Países periféricos, Seminario de Investigación en Geografía, Seminario de Geografía histórica

Prof. Patricia Correa, docente egresada del Instituto de Profesores Artigas, en la mención Geografía, y en el Instituto de Formación Docente de Tacuarembó como maestra de Educación Primaria. Posgrado en curso del Diplomado en Geografía, por el Instituto de Perfeccionamiento de Estudios Superiores , en Montevideo — Geografía de Países Centrales, Cartografía, Geografía de América Latina, Introducción a la Didáctica, Geopolítica.

Prof. Laura Meneses, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay — Teoría Geográfica - Seminario de ordenamiento territorial y medio ambiente.

Prof. Beatriz Taroco, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay — Geografía Humana, Geografía Física II, Geografía del Uruguay, Seminario Uruguay.

Prof. Rosario Bottino, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado en Constructivismo y Educación, en Facultad Latinoamericana de Ciencias Sociales, sede Buenos Aires, Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay, y Posgrado en curso del Diplomado en Geografía, por el Instituto de Perfeccionamiento de Estudios Superiores , en Montevideo — Didácticas I, II y III.

Prof. Roberto Iglesias, docente egresado del Instituto de Profesores Artigas, en la mención Geografía — Geología, Estructura del Mundo Contemporáneo, Geografía Física I, Geografía Económica.

Prof. Ailton Leal, docente egresado del Centro Regional de Profesores del Norte, en la mención Geografía — Evolución y métodos del pensamiento geográfico.

VENEZUELA

UNIVERSIDAD CENTRAL DE VENEZUELA

ESCUELA DE GEOGRAFÍA

BACKGROUND: Escuela de Geografía, adscrita a la Facultad de Humanidades y Educación. La Escuela tiene su inicio en el año 1956. Se obtiene el título de Licenciado en Geografía. Desde el año de 1960 se han efectuados grados en ese sentido. Actualmente tiene una matrícula de 540 estudiantes inscritos como regulares y existen 140 estudiantes inscritos como tesistas. La escuela de organiza administrativa y académicamente en una dirección y cinco departamentos.

El número telefónico de la dirección de la escuela es el 58-212-6052876 y 6052900. FAX. Mayores detalles se encuentran en la siguiente dirección electrónica:
http://www.ucv.ve/humanidades/FHE2005/escuelas/geografia/index.htm

PROGRAMA Y FACILIDADES: Reglamento de ingreso de alumnos a la universidad central de Venezuela, capítulo I, disposiciones generales.

Artículo 1º Son alumnos de la Universidad Central de Venezuela, las personas que, cumpliendo con los requisitos de admisión previstos en la Ley de Universidades, reglamentos y resoluciones del Consejo Universitario, sigan los cursos para obtener los grados, títulos o certificados que confiera la Universidad. Artículo 2° Para ingresar como alumno a la Universidad Central de Venezuela se debe cumplir con los requisitos y procedimientos que al efecto se establecen en la presente normativa. Artículo 3º Las inscripciones al nivel de las Facultades de la Universidad se efectuarán conforme a las disposiciones contenidas en el presente reglamento y a las normas internas que al efecto dicten las Facultades. A tales fines los Consejos de Facultad podrán, de acuerdo a la naturaleza de la enseñanza que en ellas se imparte y a las condiciones particulares en cuanto a demanda y disponibilidad de cupo, así como a cualquier otra circunstancia relacionada con su estructura y funcionamiento, proponer al Consejo Universitario la aprobación de las referidas normas internas.

PLAN ACADÉMICO, REQUERIMIENTOS DE ADMISIÓN Y AYUDA FINANCIERA:
El plan de estudio contempla cinco años de estudio y se conforma de un ciclo básico con cinco semestres y un ciclo profesional con cinco semestre. Se deben aprobar 180 créditos. Las asignaturas están agrupadas en cátedras y estas en departamentos. Los Departamentos de la Escuela de Geografía son cinco: Geografía Regional, Cartografía, Metodología, Geografía Física y Geografía Humana.

PROFESORES:

Jesús Prieto. jesusprietom@yahoo.es Licenciado en Geografía. UCV, 1974, Profesor Asistente, en Cartografía y Catastro.

Miguel Pineda estereofoto@geovzla.zzn.com. Licenciado en Geografía. UCV, 1976, Profesor Asistente, en Cartografía y Fotointerpretación.

María Arreaza mararr20042003@yahoo.com Lic. en Geografía. 1986, Profesor Instructor, en Economía.

Gerardo Gonnella. Licenciado en Geografía. UCV, 1996, Profesor Instructor, en Cartografía y Fotointerpretación.

Gaby González. deltageo2004@yahoo.es Licenciado en Geografía. 2002-UCV. Maestría en Análisis Espacial Y gestión de Territorio UCV 2012, Profesor Contratado, en Cartografía.

Raquel Manduca raquelmanduca@yahoo.com. Licenciado en Geografía. UCV, 1968. Master en Geografía, 1979. Profesor Asistente, en Geografía Regional. Venezuela IV

Freddy Aponte freddyaponte@yahoo.com . Licenciado en Geografía. UCV, 1988, Maestría en Planificación. Profesor Asistente, en Geografía Regional. Venezuela I

Ana Vergel anaverlo3@yahoo.com Licenciado en Geografía. UCV, 1984, Profesor Contratado, en Geografía Regional. Venezuela II

Francisco Fantone franfantone@yahoo.es Licenciado en Geografía. UCV, 1988, Master en Manejo de Recursos, Profesor Asistente, en Geografía Regional. Venezuela II y Seminario de Geografía Regional

Julio Cubas. Licenciado en Geografía. UCV, 1984, Profesor Instructor, en Geografía Regional. Venezuela III

Pedro Delfín. Pedrodelfin@cantv.net Maestría en Análisis Espacial y Gestión del Territorio. 2011, Profesor en Asistente, Geografía Regional. Venezuela I y III.

Soledad Sanabria soledad.sanabria@gmail.com Maestría en Análisis Espacial y Gestión del Territorio 2010. Profesor Instructor, en Inventario y Evaluación de Recursos.

Eva Colotti B. MScecolotti@cantv.net en Climatología. UCV. 1996. Licenciado en Geografía 1986. Profesor Agregado en Climatología II.

Jairo Mejía geogjairo@starmedia.com Licenciado en Geografía. UCV, 1998, Profesor Instructor, en Geografía Física.

Marian González marian.229@gmail.com Licenciado en Geografía. UCV, 2010, Profesor Instructor, en Geografía Física.

Orlando Cabrera caborlan@yahoo.com . Licenciado en Geografía. UCV, 2000, Master en Geología 2006, Profesor Asistente, en Geomorfología I y II.

Leandro Montes lemonte2008@gmail.com, Licenciado en Geografía. UCV, 1985, Master en Planificación 1998, Profesor Instructor, en Geomorfología I y II.

José Gregorio Betancourt josegregoriobetancourt83@gmail.com Licenciado en Geografía, UCV 1984. Profesor Instructor en Geografía Regional.

Jesús Barboza jlubarbo@yahoo.es Licenciado en Geografía. UCV, 2000, Profesor Instructor, en Meteorología.

Andrés E. Blanco andeloblant@yahoo.com Licenciado en Geografía. UCV, 2000, Especialista en Análisis de Datos, UCV, 2009. Profesor Asistente, en Climatología I y II. Coordinador Académico de la Escuela de Geografía

Vidal Sáez Sáez vidal.saezsaez@gmail.com Dr. en Ciencias, UCV, 2002, Profesor Titular, en Biogeografía y Seminario de Investigación. Coordinador de Investigación en la Facultad de Humanidades y Educación. Coordinador de la Maestría Análisis Espacial y Gestión del Territorio.

Luisa Fernández De Andrade lfernand01@cantv.net Dra. en Ciencias, UCV, 2002, Profesor Agregado, en Edafología.

Maryorie Levi. maryori_levi@hotmail.com Licenciado en Geografía. 2006. Profesor Instructor, en Edafología.

Eunice Siso eunicesiso@yahoo.es. Licenciado en Geografía. UCV, 1999, Especialista en Análisis de Datos-UCV, 2008, Profesor Agregado, en Estadística.

Silvia González. silvia_gonzal48@hotmail.com Lic. en Geografía. 1995. Profesora Instructor, en Cartografía. Escuela de Geografía.

Luis Salazar luismeister@gmail.com Licenciado e en Matemática UCV 2003, Profesor contratado a tiempo completo en matemática,

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Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
UNITED STATES																																																			
ALABAMA																																																			
Auburn University		X	X					X	X	X	X	X		X		X		X	X		X	X	X		X		X	X	X	X		X	X		X	X			X	X	X	X	X	X		X				X
University of Alabama		X	X		X			X	X	X	X	X	X		X			X			X	X	X	X	X				X	X			X	X		X			X		X	X	X	X	X	X					
University of North Alabama		X	X		X		X	X	X	X	X	X		X	X	X	X	X		X	X	X	X		X	X			X	X	X		X		X	X			X		X			X	X	X	X				X
University of South Alabama		X			X				X	X	X							X		X	X	X	X	X	X			X	X						X	X			X		X		X								
ALASKA																																																			
University of Alaska, Fairbanks		X	X	X					X					X			X	X				X	X		X										X																
ARIZONA																																																			
Arizona State University		X	X	X	X				X	X	X			X		X		X					X	X					X	X			X			X			X	X	X		X		X		X				
Northern Arizona University		X	X		X	X		X	X	X		X		X									X	X					X	X				X	X	X	X	X	X	X	X									
University of Arizona		X	X	X	X	X		X	X	X	X		X	X	X	X		X	X	X	X		X	X					X		X	X	X	X		X	X	X	X	X	X	X	X	X		X	X			X	X	X
ARKANSAS																																																			
University of Central Arkansas		X	X			X						X		X				X					X	X															X													
CALIFORNIA																																																			
California State University, Chico		X	X		X		X	X	X	X	X	X		X		X		X		X		X	X	X				X	X			X	X		X	X	X	X	X	X		X		X					X
California State University, Northridge		X	X		X				X	X	X	X		X		X		X			X	X	X	X	X		X	X			X	X		X	X		X	X	X	X	X	X	X	X	X				X
California State Polytechnic University, Pomona		X			X				X	X	X	X		X	X	X							X	X		X		X		X	X		X	X	X		X	X	X	X	X	X	X						X
California State University, Sacramento		X						X	X	X	X			X		X		X				X	X		X	X		X	X		X	X			X	X		X	X	X	X			X	X					
California State University, San Bernardino		X			X				X	X	X	X						X				X	X	X	X				X		X				X			X		X	X					X		X		
California State University, Stanislaus		X					X	X	X			X		X								X	X		X				X												X	X									X
San Diego State University		X	X	X	X			X	X	X	X	X	X	X				X		X			X	X					X	X			X			X			X	X	X		X			X					X
San Francisco State University		X	X		X		X	X	X	X	X	X		X		X		X	X		X	X	X	X	X		X	X	X	X	X			X			X		X	X	X	X	X			X				
University of California, Berkeley		X		X					X	X	X			X	X	X		X			X	X	X			X			X		X			X			X		X		X	X	X	X	X		X		X		X
University of California, Davis			X	X			X	X	X			X	X		X	X		X	X				X					X	X	X			X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X
University of California, Los Angeles		X	X	X	X			X	X		X	X		X		X		X	X	X	X	X	X	X		X			X		X	X	X		X		X		X	X	X		X		X					X
University of California, Santa Barbara		X	X	X			X	X	X	X	X	X	X		X	X	X	X		X	X	X	X		X		X	X	X	X		X	X	X		X		X	X	X	X	X	X	X		X				X
University of Southern California		X	X	X	X	X				X										X	X	X	X	X												X				X												

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
COLORADO																																																				
University of Colorado, Boulder		X	X	X	X				X	X	X	X	X	X		X		X	X			X	X	X	X			X	X		X	X	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X
University of Colorado, Colorado Springs		X	X		X			X	X		X	X	X	X				X		X	X	X	X	X		X			X	X		X				X	X			X	X	X	X								
University of Colorado at Denver		X	X		X		X	X		X	X	X						X		X		X	X	X	X					X									X			X	X						X			
University of Denver		X	X	X	X				X		X		X			X						X	X						X	X		X				X			X	X	X	X	X	X	X						
University of Northern Colorado		X			X				X			X		X				X		X			X			X				X												X	X	X	X		X		X			X
CONNECTICUT																																																				
Central Connecticut State University		X	X		X			X	X	X		X		X				X	X	X			X	X				X	X	X	X			X	X				X		X	X	X	X	X	X	X			X	
University of Connecticut		X	X	X	X			X				X		X	X			X				X	X	X			X	X	X			X	X	X							X			X							
DELAWARE																																																			
University of Delaware		X	X	X	X						X		X	X		X			X	X			X	X		X			X		X		X			X		X		X	X	X	X			X	X		X			
DISTRICT OF COLUMBIA																																																			
George Washington University		X	X		X			X										X					X	X						X					X				X				X		X	X		X	X		
National Council for Geographic Education																				X																																	
U.S. Department of State								X		X								X					X					X			X	X			X				X	X				X							X
FLORIDA																																																			
Florida International University		X	X	X			X						X	X		X		X	X				X								X		X		X		X		X		X	X	X	X	X	X	X		X	X	
Florida State University		X	X	X	X	X		X	X	X	X	X		X	X		X	X	X		X	X	X		X			X	X	X	X		X		X		X	X	X	X	X									
University of Florida		X	X	X		X		X	X		X	X				X		X					X					X	X				X		X				X	X	X	X		X	X					X
GEORGIA																																																			
Georgia College & State University		X												X		X		X		X			X		X			X	X		X				X				X		X	X	X	X	X	X			X		X
Kennesaw State University		X			X	X		X	X	X	X	X		X		X		X				X	X	X					X		X		X			X			X		X	X	X	X	X	X					X
University of Georgia		X	X	X	X					X	X	X		X				X	X			X	X	X					X	X	X	X				X	X	X		X	X										
HAWAII																																																			
University of Hawaii, Manoa		X	X	X	X		X	X	X	X	X	X		X	X	X		X				X	X						X		X				X	X		X						X		X		X			X
IDAHO																																																			
Univeristy of Idaho		X	X	X				X	X	X	X			X		X				X		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X				X		X	X	X	X
ILLINOIS																																																			

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
Augustana College		X								X		X		X		X		X				X	X		X			X	X										X	X			X					X			
DePaul University		X			X									X					X				X	X					X	X					X				X				X			X					
Eastern Illinois University		X	X		X		X		X	X	X	X		X		X		X				X	X		X				X	X		X	X		X	X	X		X	X	X	X	X	X	X					X
Elmhurst College		X			X											X							X	X						X								X		X		X									
Illinois State University		X	X		X				X	X	X		X	X				X				X	X	X	X					X	X		X			X			X	X		X	X		X				X		
Northeastern Illinois University		X	X				X			X		X		X				X					X	X					X	X			X			X			X		X	X	X	X	X	X					X
Northern Illinois University		X	X	X	X	X			X		X	X				X							X	X	X		X		X	X			X			X			X	X	X	X			X	X					X
Southern Illinois University, Carbondale		X	X	X							X							X					X		X				X							X				X												
Southern Illinois University, Edwardsville		X	X					X	X	X	X	X		X	X	X				X		X	X		X			X	X		X	X	X			X			X	X	X	X	X	X	X	X					X
University of Illinois		X	X	X			X	X	X	X		X	X	X	X	X		X		X	X	X	X		X		X	X	X	X	X	X	X		X		X	X	X	X	X		X	X	X			X		
Western Illinois University		X	X		X				X	X	X											X	X						X	X		X	X			X				X	X					X	X					X
INDIANA																																																					
Ball State University		X	X		X					X	X												X	X										X	X																	
Indiana State University		X	X	X	X			X	X		X							X					X	X				X							X				X		X		X					X			
Indiana University		X	X	X	X		X		X		X	X	X	X	X			X					X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X
Valparaiso University		X						X	X	X	X	X		X		X		X				X	X		X	X			X	X	X				X	X	X	X	X		X				X					X
IOWA																																																				
The University of Iowa		X	X	X	X			X	X		X	X					X	X					X	X	X			X	X	X			X			X				X											
KANSAS																																																				
Fort Hays State University		X	X		X	X		X		X	X							X					X	X	X				X										X													
Kansas State University		X	X	X	X			X	X		X	X		X				X			X	X	X	X	X			X	X			X	X			X	X			X		X		X	X		X					X
University of Kansas		X	X	X						X	X	X	X	X				X			X	X	X	X		X			X		X		X	X			X			X	X	X	X	X		X	X	X	X			X
KENTUCKY																																																				
University of Kentucky		X	X	X	X		X		X	X	X			X	X	X		X	X		X	X	X	X		X		X	X	X	X	X	X		X		X		X		X		X	X	X	X			X		X
University of Louisville		X	X					X			X					X						X						X	X			X			X															
Western Kentucky University		X	X		X			X			X			X				X				X	X						X			X		X	X			X	X	X	X		X							X
LOUISIANA																																																				
Louisiana State University		X	X	X	X						X			X		X						X	X	X		X			X						X						X	X	X	X	X	X					

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
MAINE																																																			
University of Southern Maine		X			X			X				X				X			X				X	X					X	X						X				X											
MARYLAND																																																		
Frostburg State University		X					X	X	X	X	X	X		X	X	X		X		X	X	X	X		X	X	X		X	X	X		X	X	X	X			X	X	X	X			X			X		X
Salisbury University		X	X								X											X	X		X				X	X			X																	
Towson University		X	X					X	X	X	X	X		X		X		X			X	X	X		X				X	X	X	X	X			X			X	X		X	X	X	X	X	X	X		X	X	X
University of Maryland, Baltimore County		X	X	X	X				X	X	X	X		X				X	X	X		X	X	X	X	X		X	X		X			X		X	X	X		X	X	X								X
University of Maryland, College Park		X	X	X	X							X		X	X	X		X					X	X	X				X	X	X					X															X
MASSACHUSETTS																																																		
Clark University		X	X	X			X	X	X		X	X	X	X	X	X		X	X		X		X		X				X		X		X	X		X	X	X	X	X	X	X	X		X	X		X		
Mount Holyoke College		X														X		X				X	X							X	X		X	X		X			X	X	X				X	X		X		X
Salem State University		X	X							X				X						X			X	X						X					X	X														X
University of Massachusetts Amherst		X	X	X						X	X			X		X		X					X						X	X					X	X				X		X								X
Westfield State University		X			X			X			X	X		X				X		X			X	X					X	X				X	X				X	X			X							X
Worcester State University		X							X		X						X	X					X						X						X					X	X				X			X			
MICHIGAN																																																		
Aquinas College		X																					X					X												X											
Calvin College		X						X		X	X	X		X		X		X		X	X	X	X			X			X	X	X					X		X		X	X	X			X					X
Eastern Michigan University		X	X		X	X		X		X	X	X	X	X	X	X		X		X		X	X	X		X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		X	X	X
Grand Valley State University		X			X		X	X		X		X	X	X		X		X					X	X					X	X				X		X			X	X		X	X	X	X	X	X		X	X	
Michigan State University		X	X	X	X	X	X	X	X	X	X			X		X		X				X	X	X		X	X		X	X	X		X		X	X			X		X		X	X		X	X		X
Northern Michigan University		X			X		X	X	X	X	X	X		X		X		X				X	X	X	X				X			X	X		X	X	X			X	X	X	X	X					X		
Western Michigan University		X	X		X		X	X	X		X	X		X		X		X		X			X	X	X				X	X				X	X			X	X	X	X	X	X	X	X	X				
MINNESOTA																																																		
Gustavus Adolphus College		X									X			X	X			X					X		X				X		X				X				X	X		X	X	X	X						X
Macalester College		X					X	X		X		X	X	X		X		X					X		X		X				X	X	X			X	X		X		X				X					
Minnesota State University, Mankato		X	X		X			X	X		X	X		X		X					X	X	X	X	X	X			X		X			X	X	X	X	X	X	X	X	X	X		X				X
Univeristy of Minnesota, Duluth		X			X			X		X				X		X		X			X	X	X	X	X				X	X	X			X		X			X	X			X	X		X				X

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University of Minnesota, Twin Cities		X	X	X				X	X	X	X	X	X	X	X	X		X	X		X		X		X	X		X	X	X	X		X		X			X	X	X	X	X	X	X			X		
MISSOURI																																																			
Missouri State University		X	X		X			X		X	X	X		X				X		X		X	X	X		X		X	X	X			X	X	X			X	X	X	X	X	X	X			X	X	X
Northwest Missouri State University		X	X		X	X		X		X	X	X		X		X					X	X	X	X	X				X		X		X					X		X	X	X	X		X				X
University of Missouri, Columbia		X	X		X	X		X	X	X		X	X	X	X	X		X		X	X	X	X	X	X	X			X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X			X		X
MONTANA																																																			
The University of Montana		X	X		X			X		X	X	X				X				X		X	X	X	X				X	X		X	X		X	X			X	X			X	X	X		X			
NEBRASKA																																																			
University of Nebraska, Lincoln		X	X	X	X		X					X		X				X				X	X	X		X			X	X	X	X	X							X	X	X									X
University of Nebraska, Omaha		X	X		X		X		X	X	X	X				X		X	X	X		X	X	X	X				X	X	X		X			X			X	X		X		X					
NEW HAMPSHIRE																																																			
Dartmouth College		X							X	X	X			X		X		X	X		X		X			X			X		X				X				X	X	X	X	X	X		X			X		X
Plymouth State University		X			X			X						X									X	X					X	X					X									X		X	X			
University of New Hampshire		X									X	X				X		X					X			X					X				X						X	X		X		X	X		X	X		
NEW JERSEY																																																			
Rowan University		X			X	X	X	X		X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X		X			X	X	X	X	X	X	X	X			X	X	X
Rutgers University		X	X	X	X				X	X	X	X			X	X	X	X	X				X	X	X		X	X				X			X		X		X	X	X	X	X	X	X	X		X		X	
William Paterson University of New Jersey		X							X	X				X		X							X				X	X		X	X	X			X			X		X		X	X	X	X	X	X			X		X
NEW MEXICO																																																			
University of New Mexico		X	X									X						X					X			X									X						X	X	X	X								
NEW YORK																																																			
Binghamton University, SUNY		X	X					X		X		X		X				X					X		X		X	X		X		X			X				X	X	X									X
CUNY-Lehman College		X	X					X	X	X	X							X					X	X	X		X	X	X		X	X			X				X	X										
Graduate Center, CUNY				X	X			X			X	X	X	X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X			X		X	X	X	X	X	X	X		X	X		X		X	
Hofstra University		X												X		X							X															X	X				X	X	X	X							X
SUNY-Buffalo State		X						X	X	X	X	X			X	X		X					X					X	X			X	X		X			X	X	X	X			X		X					
SUNY-College at Geneseo		X						X	X	X	X	X		X				X	X		X		X			X			X	X	X		X					X		X	X	X		X	X	X	X		X		X
Syracuse University		X	X	X				X	X	X	X	X		X	X	X		X	X	X	X	X	X		X	X		X	X	X	X	X	X		X	X		X	X	X		X		X	X	X		X	X	

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
United States Military Academy		X			X													X					X		X				X	X						X				X		X	X	X	X			X	X	X
University at Albany, SUNY		X	X		X			X	X	X	X	X		X	X	X	X	X	X		X		X	X		X			X	X	X		X			X		X	X			X			X	X					
University at Buffalo, SUNY		X	X	X				X	X	X	X	X			X	X		X					X						X	X			X	X		X			X	X	X	X			X		X					
NORTH CAROLINA																																																				
East Carolina University		X	X		X			X			X			X		X						X	X	X	X					X							X															
University of North Carolina, Chapel Hill		X	X	X	X				X		X	X	X	X		X		X	X		X	X	X	X		X		X	X		X	X	X			X	X	X	X	X	X	X	X	X	X		X	X	X
University of North Carolina, Charlotte		X	X	X	X			X			X				X	X		X				X	X	X					X	X	X		X	X		X		X		X	X	X									
University of North Carolina, Greensboro		X	X	X				X	X	X	X	X		X	X	X					X	X	X		X	X			X	X	X	X	X	X	X			X	X	X											
NORTH DAKOTA																																																				
University of North Dakota		X	X		X	X			X		X	X				X		X		X		X	X	X	X	X			X	X			X			X	X		X	X	X	X			X					
OHIO																																																				
Kent State University		X	X	X	X	X		X	X		X	X		X		X		X	X	X	X		X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		X	X		X
Miami University of Ohio		X	X		X								X	X				X	X			X	X	X					X	X	X				X			X	X	X				X	X	X					
The Ohio State University		X	X	X				X	X	X	X	X		X		X		X			X		X			X	X	X		X	X	X			X		X	X	X		X	X		X	X	X	X	X		X	X
Ohio University		X	X		X			X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X			X	X	X	X	X	X		X	X	X		X		X		X	X	X	X		X		X
Ohio Wesleyan University		X						X		X	X			X		X		X					X						X							X		X		X		X									
University of Cincinnati		X	X	X				X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X		X	X	X		X	X	X	X			X	X	X	X	X	X	X	X	X		X			X
The University of Toledo		X	X	X	X			X			X	X		X	X	X				X			X	X		X		X		X	X	X	X	X		X		X	X	X	X	X	X		X	X	X				
OKLAHOMA																																																				
Oklahoma State University		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X				X	X	X		X			X	X	X		X		X	X			X	X	X	X	X	X	X	X	X		X	X	X
University of Oklahoma		X	X	X	X				X		X	X		X			X	X	X				X		X			X		X		X			X				X	X	X			X					X	X
OREGON																																																				
Oregon State University		X	X	X	X	X	X	X	X	X	X	X	X					X				X	X	X	X		X		X	X			X			X	X				X	X	X	X	X	X	X				X
Portland State University		X	X	X	X			X	X	X	X	X	X	X				X		X	X	X	X	X					X				X			X				X	X	X			X		X				
University of Oregon		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X	X	X						X		X		X		X	X		X	X	X	X	X	X	X	X	X				X
PENNSYLVANIA																																																				
Bucknell University		X					X		X				X	X	X	X		X	X				X		X	X		X	X		X					X		X		X	X		X				X			X
Edinboro University of Pennsylvania		X							X	X	X			X	X	X		X					X	X				X	X	X	X	X	X		X			X	X	X	X	X	X		X	X	X		X		X

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Kutztown University		X						X		X	X	X		X		X		X					X		X				X	X	X		X			X			X	X		X		X	X	X					X
The Pennsylvania State University		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
Shippensburg University of Pennsylvania		X	X		X				X	X	X	X		X		X		X				X	X	X		X		X	X	X				X			X	X	X	X	X	X	X	X	X			X		X
Temple University		X	X	X	X					X		X						X	X		X		X	X	X	X		X	X	X			X	X		X		X	X	X	X		X		X	X					
University of Pittsburgh, Johnstown		X			X					X						X		X					X	X					X	X	X	X			X				X	X	X			X	X				X	X	X
Villanova University		X									X							X					X		X				X												X							X			X		X
West Chester University		X	X		X	X			X			X			X	X		X					X	X					X	X		X	X						X	X			X	X	X	X		X				X
SOUTH CAROLINA																																																					
University of South Carolina		X	X	X	X			X	X	X	X	X		X		X	X	X	X	X	X	X	X		X				X		X	X	X	X	X		X		X	X	X	X	X	X		X			X		
TENNESSEE																																																					
Middle Tennesse State University		X	X						X	X								X					X		X				X						X					X												
University of Memphis		X	X	X	X									X		X		X	X			X	X	X	X				X			X	X			X	X	X	X	X											X
University of Tennessee, Knoxville		X	X	X				X	X		X	X		X	X	X	X	X		X		X	X		X	X			X			X	X		X	X		X	X	X	X	X	X	X	X	X	X					X
TEXAS																																																					
Texas A&M University		X	X	X	X			X	X	X	X	X	X	X		X	X					X	X	X					X				X			X	X	X		X	X		X		X	X					
Texas Christian University		X						X						X		X							X						X			X							X	X	X	X	X	X								
Texas State University		X	X	X	X			X	X	X	X	X	X					X		X		X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X								X
Texas Tech University		X	X	X	X		X	X		X	X	X				X				X		X	X	X	X				X				X			X	X	X		X	X	X	X	X								
University of North Texas		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
University of Texas, Austin		X	X	X			X		X		X	X	X	X	X			X	X		X	X	X		X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X			X			X
The University of Texas, San Antonio		X	X					X	X	X	X	X		X				X	X		X		X		X			X	X	X	X	X			X	X			X		X	X	X	X		X					X
UTAH																																																				
University of Utah		X	X	X	X				X	X		X				X		X				X	X	X	X			X	X			X	X			X				X											
Utah State University		X	X				X					X						X					X		X																X		X										
Weber State University		X						X		X	X	X		X	X	X		X		X	X		X			X			X	X			X							X	X	X	X	X	X	X	X		X	X	X	X
VERMONT																																																					
Middlebury College		X								X				X	X	X		X		X			X		X			X			X	X	X				X			X		X	X	X	X	X				X		X
University of Vermont		X							X		X		X	X		X		X	X	X		X	X		X	X			X		X		X			X	X			X	X	X		X	X	X			X			

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
VIRGINIA																																																				
George Mason University		X	X	X	X	X		X	X	X	X			X		X				X	X		X	X		X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X			X		X
James Madison University		X							X	X	X	X						X					X											X				X			X	X		X						
Old Dominion University		X	X		X	X		X	X	X	X	X		X		X		X	X	X	X		X	X	X				X	X	X				X		X		X	X	X	X	X	X			X		X
University of Mary Washington		X	X		X			X		X				X		X			X				X	X		X			X	X	X		X	X		X					X		X			X			X		X
University of Richmond		X							X			X			X			X					X						X		X									X	X	X	X						X		
WASHINGTON																																																				
Central Washington University		X	X		X				X	X		X	X			X		X					X	X	X		X			X	X			X	X		X		X		X	X	X	X	X		X			X	X	
Eastern Washington University		X			X													X					X	X					X		X					X			X	X	X	X	X					X		
University of Washington		X	X	X		X						X		X	X	X		X	X		X		X	X				X			X	X	X				X		X		X	X	X	X		X					X
Western Washington University		X	X		X		X	X	X	X	X	X		X		X		X		X	X		X	X	X	X				X		X	X	X	X	X	X		X	X	X	X	X	X	X	X			X		X
WEST VIRGINIA																																																			
Concord University		X							X			X		X						X			X						X			X	X						X		X		X	X	X	X			X	X	
Marshall University		X	X		X	X					X			X		X							X	X					X	X	X	X				X	X	X		X		X	X	X	X				X	X
West Virginia University		X	X	X				X	X		X	X			X	X	X	X	X		X		X	X					X		X		X	X		X	X	X			X	X	X	X	X	X	X			X		
WISCONSIN																																																			
University of Wisconsin, Eau Claire		X			X				X	X	X	X		X		X		X			X	X	X	X	X				X		X		X		X				X	X	X	X	X	X		X			X		
University of Wisconsin, La Crosse		X							X	X	X	X		X		X						X	X		X				X		X	X	X			X			X	X	X	X	X		X	X	X			X
University of Wisconsin, Madison		X	X	X	X				X	X		X	X	X	X	X		X	X		X	X	X	X					X		X		X			X				X		X			X	X	X		X	X	
University of Wisconsin, Milwaukee		X	X	X	X			X	X	X	X	X		X	X	X		X	X		X	X	X	X					X	X	X	X	X			X			X	X	X	X		X	X		X			
University of Wisconsin, River Falls		X			X			X	X	X	X	X											X	X	X	X			X		X		X							X	X	X	X	X	X	X					
University of Wisconsin, Stevens Point		X			X			X		X													X	X					X	X					X					X											
University of Wisconsin, Whitewater		X			X						X	X		X				X		X			X	X					X	X	X				X				X	X	X	X				X					
WYOMING																																																				
University of Wyoming		X	X		X			X	X	X	X	X	X		X	X		X				X	X	X	X				X	X	X		X			X	X				X	X									
CANADA																																																			
ALBERTA																																																			
University of Alberta		X	X	X							X			X		X		X					X						X	X				X		X					X	X										X

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
University of Calgary		X	X	X				X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X		X		X
BRITISH COLUMBIA																																																			
Simon Fraser University		X	X	X		X			X		X	X		X		X		X			X	X	X		X	X	X	X	X	X	X	X	X	X	X				X										
University of British Columbia		X	X	X					X	X	X	X	X	X	X	X		X	X		X	X	X		X	X			X	X	X		X	X		X		X		X	X	X	X	X	X		X	X		X
University of Northern British Columbia		X	X	X									X					X	X			X	X					X	X				X		X	X	X			X	X		X				X		X	
University of the Fraser Valley		X			X		X		X		X			X	X	X		X					X	X		X	X		X	X	X		X	X		X		X	X		X								
University of Victoria		X	X	X				X	X	X	X	X		X		X		X			X	X	X		X			X	X	X	X	X	X	X	X	X		X	X	X	X	X		X		X		X		X
ONTARIO																																																			
Brock University		X	X		X			X	X	X	X	X		X	X	X		X	X		X	X	X	X	X	X			X	X	X		X	X	X	X	X	X	X	X										
Carleton University		X	X	X				X	X	X	X	X		X	X	X		X	X	X	X	X	X		X	X			X	X	X		X	X		X	X	X	X	X	X	X			X		X				X
McMaster University		X	X	X							X					X		X	X			X	X	X		X	X	X	X			X	X		X		X	X	X	X										
Queen's University		X	X	X	X				X					X	X		X	X	X	X	X	X	X	X		X		X	X	X	X				X		X		X	X	X	X						X				
Ryerson University		X	X		X	X		X		X		X				X	X	X		X			X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X			X		X		X	X	
University of Guelph		X	X	X			X		X	X	X	X	X			X		X	X		X	X	X		X				X				X		X	X	X	X													
University of Ottawa		X	X	X				X			X					X		X				X	X						X			X			X			X		X					X		X				
University of Toronto		X	X	X						X	X	X	X	X		X		X	X		X		X			X		X	X	X	X				X		X	X	X		X		X	X		X				
University of Waterloo		X	X	X				X			X	X			X	X		X					X		X				X				X	X	X	X			X		X						X				
University of Western Ontario		X	X	X						X	X	X		X	X			X	X		X		X		X			X	X				X		X			X	X	X	X	X		X	X	X	X				
Geography			X	X				X			X	X			X	X		X					X		X				X				X	X	X	X			X		X						X				
York University		X	X	X	X			X	X		X	X	X	X	X	X		X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X				X
QUEBEC																																																			
Concordia University		X	X	X				X	X	X	X	X	X	X	X			X	X		X	X	X			X	X	X	X	X			X	X		X	X	X	X	X										X
McGill University		X	X	X								X	X	X	X	X		X	X			X	X					X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
Université de Montréal		X	X	X			X		X		X		X	X				X				X	X						X		X		X		X			X	X		X		X			X		X		
SASKATCHEWAN																																																			
University of Regina		X	X	X						X								X				X	X						X									X		X											
ARGENTINA																																																			
Universidad de Buenos Aires		X	X	X			X					X		X	X	X		X		X					X					X	X		X	X			X	X	X	X											

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
Universidad Nacional de General Sarmiento	X					X				X											X		X					X	X			X	X		X				X												
Universidad Nacional de Mar de Plata	X	X																																																		
Universidad Nacional de Tucuman			X	X																																															
BOLIVIA																																																			
Universidad Mayor de San Andres	X						X	X	X	X	X	X				X		X		X	X	X	X	X	X				X	X	X	X	X	X		X	X			X				X								
BRAZIL																																																			
Associação de Geógrafos Brasileiros							X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X		X		X	X	X		X	X			X								X
Catarina					X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
Universidade de Brasília		X	X	X	X	X		X	X	X	X	X		X	X	X		X		X	X	X	X	X	X				X	X	X			X	X	X	X		X	X			X								X
Universidade de Caxias do Sul		X			X	X				X		X											X	X							X		X		X	X	X		X												
Universidade do Estado do Rio de Janeiro		X	X		X				X	X	X	X		X						X	X	X	X	X	X	X		X		X	X		X	X	X	X	X	X	X	X			X								X
Universidade Estadual de Londrina	X	X	X		X				X	X	X	X		X	X	X				X	X	X	X				X	X		X	X		X	X	X	X	X		X	X			X								
Filho		X	X	X	X		X	X	X	X						X		X		X	X	X	X	X	X		X		X	X	X	X	X	X		X			X	X										
Universidade Federal do Ceará		X	X	X	X			X	X	X	X	X		X		X		X		X	X	X	X		X		X		X	X	X	X		X	X	X			X	X			X								X
Universidade Federal da Grande Dourados		X			X		X		X	X	X	X		X		X		X		X	X	X	X		X		X		X	X	X	X		X		X			X	X			X								X
Universidade Federal do Maranhão		X			X			X		X		X			X			X		X		X	X					X		X	X	X	X	X	X	X	X			X	X			X								X
Universidade Federal de Mato Grosso do Sul		X						X															X																													
Universidade Federal de Minas Gerais		X	X	X	X	X			X	X								X		X	X	X						X	X						X		X		X	X												
Universidade Federal do Piauí - UFPI			X		X															X	X																		X													
Universidade Federal do Rio de Janeiro		X	X	X	X		X		X	X			X	X	X	X		X		X	X	X			X	X			X	X	X	X		X		X	X	X	X	X	X			X								
Universidade Federal de Santa Catarina		X	X	X	X			X	X	X	X	X		X	X	X		X		X	X	X	X		X				X	X	X	X		X		X	X			X	X			X								X
Universidade Federal de Uberlândia		X			X				X	X	X	X			X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X										X
Universidade Luterana do Brasil					X		X		X	X	X			X		X		X		X	X	X	X						X	X	X						X	X			X				X								X
Universidad Regional Do Cariri							X		X	X	X	X		X				X		X									X	X		X		X						X	X												
Rio Grande do Sul					X	X	X		X	X	X	X		X	X	X		X		X	X	X	X		X		X		X	X	X	X	X	X		X	X	X		X	X											X
CHILE																																																				

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
Pontificia Universidad Catolica de Chile		X																																																
Universidad Academica de Humanismo Cristiano	X	X	X		X		X		X	X	X	X		X		X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X		X	X											X
Universidad de Chile		X					X		X		X			X		X		X				X	X		X			X	X	X			X	X	X	X	X		X	X										
Universidad de la Serena			X																																																
COLOMBIA																																																			
Asociación Colombiana de Geógrafos, ACOGE							X	X	X	X	X			X		X		X	X	X	X	X	X		X	X			X	X	X	X	X	X	X		X	X			X											
Geopaideia																				X																																	
Razón Cartográfica										X										X	X		X			X					X												X									
Universidad de los Andes, Bogota			X									X	X	X				X			X		X			X					X	X																				
Universidad del Valle	X	X						X												X					X					X																							
Universidad Externado de Colombia	X																																																				
University of Cordoba, Colombia		X	X				X																																													
Universidad Nacional de Colombia		X	X	X					X	X	X	X	X		X			X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X										
Universidad Pedagogica y Tecnologica de Colombia		X					X	X												X											X		X				X		X												
COSTA RICA																																																				
Universidad de Costa Rica	X	X	X					X	X	X	X	X		X		X		X				X	X						X	X						X	X		X	X		X										
Universidad Nacional de Costa Rica	X	X	X					X	X	X								X				X	X		X				X	X				X	X	X		X	X	X											
CUBA																																																			
Universidad de la Habana		X																																																	
ECUADOR																																																			
Centro Panamericano de Estudios, Cepeige					X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			X	X	X	X		X	X	X	X	X	X	X	X										
Pontificia Universidad Catolica de Ecuador		X	X					X	X	X	X			X		X		X				X	X		X				X		X				X	X		X												
JAMAICA																																																			
University of the West Indies, Mona		X	X	X																																															
MEXICO																																																			

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
UNAM							X		X	X	X	X	X	X				X			X	X	X		X	X				X		X		X																	
El Colegio de Michoacan			X																																																	
Instituto Panamericano de Geografía e Historia								X		X		X				X		X		X			X		X	X									X							X	X									
Instituto Politécnico Nacional			X	X																			X																													
Pan American Institute of Geography and History								X		X		X		X				X		X	X		X		X	X			X							X						X	X	X								
Universidad Autónoma de Ciudad Juarez		X	X	X				X				X											X		X	X				X			X	X		X				X	X										
Universidad Autónoma de San Luis Potosí		X								X	X					X		X				X	X		X	X				X	X	X	X	X	X	X															
Universidad Autónoma del Estado de México		X	X		X			X		X	X	X			X	X		X		X		X	X		X			X	X			X		X		X		X	X	X										
Universidad Autónoma Metropolitana, Iztapalapa		X					X																																														
Universidad de Guadalajara	X	X	X							X													X		X					X						X																	
Universidad Nacional Autónoma de México			X	X			X																																													
NICARAGUA																																																				
Universidad Nacional Autónoma de Nicaragua		X			X					X	X					X		X			X	X	X	X					X	X	X	X		X	X	X				X	X										
PANAMA																																																			
Universidad Autónoma de Chiriquí		X	X																																																
PARAGUAY																																																			
Universidad Nacional de Asunción		X																																																	
PERU																																																			
Pontificia Universidad Católica del Peru	X	X																																																	
Universidad Nacional Mayor de San Marcos			X																																																
PUERTO RICO																																																			
University of Puerto Rico		X																																																	
TRINIDAD AND TOBAGO																																																			
University of the West Indies, St. Augustine		X	X		X																																														

Program Specialties	Associates	Bachelors	Masters	PhD	Certificate Program	Distance / Online	Agricultural Geography	Applied Geography	Biogeography	Cartography	Climatology / Meteorology	Resource Conservation, Land	Cultural Ecology	Cultural Geography	Economic Development	Economic Geography	Energy	Environmental Studies	Gender	Geographic Education	Geographic Thought	Geomorphology	GIS	GIS Certification Program	Hazards	Historical Geography	Location Theory	Medical Geography	Physical Geography (General)	Planning (Regional, Urban)	Political Geography	Population Geography	Quantitative Methods	Regional Development	Recreation and Tourism	Remote Sensing	Rural Geography	Social Geography	Transportation	Urban Geography	Water Resources	North America	Middle America	South America	Europe	Africa	Asia	Australia Oceania	Polar World	Middle East	Former Soviet Union	World Regional
URUGUAY																																																				
Asociación Nacional de Profesores de Geografía																		X		X	X																																
Centro Regional de Profesores del Norte	X																			X																																	
VENEZUELA																																																			
Universidad Central de Venezuela		X					X		X	X	X	X				X					X	X	X		X				X	X	X	X	X	X	X	X	X	X			X	X									

TITLES OF THESES AND DISSERTATIONS COMPLETED 2014-2015

UNITED STATES

ALABAMA

AUBURN UNIVERSITY

Masters (Science):

Hug, Andrew. "The Study of Urban Heat Islands in Birmingham and Auburn-Opelika, Alabama Urban Areas Using Satellite and Observational Techniques" (Mitra, 2014)

Ervin, Kelly. "A Comparative Spatial Analysis of Two Communities from Hickory Ground Site in Wetumpka, Alabama" (Chaney, 2014)

Li, Huixuan. "Spatial-Temporal Analyses of Heavy Metal Water Pollution and Impacts on Public Health in China" (Li, 2014)

Carter, Mitch."Socioeconomic Disparities, Community Physical Environment, and Childhood Obesity in Alabama's Black Belt Region" (Li, 2015)

Shakya, Samriddhi. "Two Alabama Case Studies for Remote Sensing of Water Resources" (Marzen, 2015)

Li, Xia. "Impact of Decreased Wetlands on Miroclimate of Kolkata, India" (Mitra, 2015)

UNIVERSITY OF ALABAMA

Masters (Science):

Asare-Akuffo "Evaluating The Effectiveness of Urban Planning and Administration in Taming Urban Sprawl: A Case of Kumasi." (Dr. Seth Appiah-Opoku, 2014).

Crain, Lauren "Trail User Preferences and Motivations to Attend Alabama State Parks." (Dr. Hobson Bryan, 2014.)

Dobbins, Michael "Habitat Use, Activity Patterns, and Human Interactions of Jaguars in Southern Belize." (Dr. Michael Steinberg, 2015)

Paul, Dylan "Game Day Terrorism: Improving, Altering, and Applying the Zale-Kar Evacuation Model to Bryant-Denny Stadium." (Dr. Joe Weber, 2015.)

Rockman, Meganne "The Role of Hurricane Characteristics and Storm Track on Evacuation Decision Making of Pensacola, Florida Residents." (Dr. Jason Senkbeil, 2014.)

Willis, Morgan "Assessing the Relationship between High Lightning Events and Storm Mode in Northern and Central Alabama." (Dr. Jason Senkbeil, 2014.)

Van Allen, Shivon "Angler Perceptions of Changes in Lateral Connectivity: The Case of the Black Warrior River." (Dr. Hobson Bryan, 2015.)

UNIVERSITY OF NORTH ALABAMA

Masters (Science):

Gillyard, Romeo, "Using GIS in the Planning of Response and Recovery to Mass Shooting Events". (Advisor, Dr. Sunhui Sim, 2016)

Sayed, Md Abu, "Intelligent Parking Management System (IPMS) - A multi agent based model". (Advisor, Dr. Sunhui Sim, 2016)

Thompson, Robert, "Spatial Equity and Access to Urban Amenities: a GIS Approach". (Advisor, Dr. Francis Koti, 2016)

ARIZONA

NORTHERN ARIZONA UNIVERSITY

Masters (Science):

Adler, Maile, "Restoring Rivers in The American Southwest: Sharing Knowledge Using Webisodes", (Pamela Foti, Ph.D., May 2015

Cassidy, Patrick C., "Seasonal Chang of Fine-Grain Sediment Deposits Near Three Tributary Confluences in Oak Creek Arizzona" (Erik Schiekfer, Ph.D., May 2015)

Pemberton, Zachary J., "Northern Arizona University ADA Compliance: Using GIS Geodatabase and Network Analysis to Evaluate Accessibility for Individuals with Disabilities" (Thomas Paradis, Ph.D., April 2015)

Shaffer, Abiah Claire, "The Geodemographics in Location Intelligence: A Study In Craft Brewery Placement" (Ruihong Huang, Ph.D., May 2015)

UNIVERSITY OF ARIZONA

PhDs:

Colavito, Melanie "The Role of Science in Collaborative Forest Management." (Gary Christopherson, 2015)

De la ossa, Jessica "The Politics of Proximity and Distance:The US-Mexico Border-as-Parallax-Object." (John Paul Jones III, 2015)

Kang, Dongwoo "Essays on Spatial Externality and Spatial Heterogeneity in Applied Spatial Econometrics." (Sandy Dall'erba, 2015)

Macalady, Alison "Drought-Associated Tree Mortality: Global Patterns and Insights From Tree-Ring Studies in the Southwestern U.S.A." (Thomas Swetnam and Connie Woodhouse, 2015)

Sugg, Zachary, "Dissertation title: Governing the Unseen: A Comparative Analysis of Arizona and Texas Groundwater Institutions." (Carl Bauer, 2016)

Sammler, Katherine, "Political geography of oceans, extraterritorial volumes and Common Heritage resources." (Jeffrey Banister, 2016)

House-Peters, Lily, "Desert Forests and Riparian Flows: Tracing Social-Ecological Transformations in the Transboundary San Pedro River." (Chris Scott, 2016)

Miller, Jacob, "Consumption, Dispersed: Techno-Malls and Embodied Assemblages at Chiloé Island, Chile." (John Paul Jones III, 2016)

Masters (Arts):

Coe, Michelle
Lawlor, Emma
Petrakis, Roy
Silber Coats, Noah
Farella, Joshua
Wickhorst, Andrew
Wilding, Thomas

Masters (Science):
Ahmed,Naveed
Apgar-Kurtz,Shannon
Archuleta,Maree Meenachee
Begay-Taylor,Judy Ann
Breeding,Robert H
Brown,Melinda Kelsey
Burden,Elizabeth
Canez,Juan Diego
Christakos,Gregory Joseph
Clauser,Kara A
Cunningham,Brian E
Cushman,Rachael Lee
Cziesch,Jarrett
Denton,Benjamin David
Deveney,Matthew Roger
Dreyfuss,Lauren S
Elliott,Robert Newton
Hu,Jieru
Gonzales,Tisha Renee
Joslin,Michael David
Keaton,Robert Joshua
Kelbauskiene,Ausrine
Kimmel,Gregory M
Kondeh,Abdulai
Lacayo,Joshua T
Lagarde,Ethan
Mawhinney,Laura
McCormack,Kenneth William
Mikolajczyk,Julie
Radcliffe-Meyers,Lori Victoria
Read,Amy Lynn
Smith,Alexander Noah
Steichen,Sandra
Sullivan,Russell
Syed,Imtiaz Ahmed
Tham,Stephen Robert
Thornburg,Aninna Marie
Traphagen,Myles Brett
Yazzie,Duane

Masters in Development Practice:
Castaneda, Mariela 2015
Casella, Albert, 2016
Barker- Perez, Emma, 2016
Erbe, Ashley, 2016

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

Masters (Arts):
Han, Xi "A study on the utilization levels of on-street metered parking in Old Pasadena: Delta" (Dr. Hong-Lie Qiu, 2014)
Karpova, Yuliya "Determining the Contributing Factors to a Successful Transit-Oriented Development in Los Angeles" (Dr. Ali Modarres, 2015)
Mireles, Sergio "Marijuana in the City of Angels: A Spatial Analysis of the Geographical Distribution of Medical Marijuana Dispensaries in the City of Los Angeles" (Steve Mulheriun, 2015)
Montenegro, Franklin "A LOOK INTO CHANGES IN PRECIPITATION TYPES LINKED WITH SURFACE AIR TEMPERATURE OVER BRITISH COLUMBIA, CANADA 1953–2005. " (Dr. Hengchun Ye, 2014)
Hsu, Yohsiang "Characterization of urban heat island for Los Angeles county: investigation in to urban, suburban, and open space from 2000-2010.

Masters (Science):
Keupper, Kathleen Anne "Isotopic and hydrochemical identification of source waters and effects of seasonal changes on dry weather stream flows, Santa Monica Mountains, CA (Dr. Barry Hibbs, 2014)
Wong, Yola Gayla "An investigation of nitrate and selenium sources in Malibu Creek Watershed, a comparative analysis of Las Virgenes Creek and Medea Creek"(Dr. Barry Hibbs, 2015)
Erdelyi, Nasrin Tina "Evaluation of hydrogeologic flow systems at the Dos Palmas preserve and vicinity using environmental isotopes, Salton Sea, California" (Dr. Brry Hibbs, 2014)
Raskin, Samuel W. "Controls on Spring Water Geochemistry at Mammoth Mountain, CA: A Geologic Carbon Sequestration Analogue" (Dr. Andre Ellis, 2015)
Bodi, Aboubakar "Comparative analyse of nutrients concentration in different watersheds in the Santa monica Mountains (Dr. Barry Hibbs, 2015)
Shipley, Kenisha "GEOCHEMICAL CONTROLS ON ARSENIC MOBILITY IN SPRING WATERS AROUND MAMMOTH MOUNTAIN, CA" (Andre Ellis, 2014)

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

Andreas, Joshua “Impacts of agricultural development on ephemeral channel planform: using GIS to evaluate change of the Cuyama River, CA - 1938-2011” (2014)
Bailey, David “Using SWAT (Soil Water and Assessment Tool) to Evaluate Streamflow Hydrology in a Small Mountain Watershed in the Sierra Nevada, CA.” (2015)
Choate, Caitlin “Spatial Statistical Analysis of the Effect of Gentleman's Clubs on Crime in the City of Los Angeles.” (2015)
Hasenhuttl, Claudia “People's perception of wildlife in urban parks: a case study in the Santa Monica Mountains and Griffith Park.” (2015)
March, Chad “Evaluating stormwater flow in an urban environment using GIS a case study in Glendale, California.” (2015)
Most, Madison “Landscape factors associated with exotic plant invasion in Western Riverside County, California.” (2015)
Nordstrom, Matthew “The Growth Effect: Commuter Rail in Southern California.” (2015)
Osborn, Amanda “Big Island view towards tourism.” (2015)
Prindle, Mark “sustainable vs. snsustainable: A geographic study of a major metropolitan city and the development of a model to measure levels of sustainability by census tracts in Los Angeles County, California.” (2015)
Rafii, Afsaneh “A GIS-based analysis of why children do not walk to school in Lomita, California.” (2015)
Suwan, Chontanat “Finding the Most Suitable Location for a New College/University in Los Angeles County.” (2015)
Tadayon, Mani “Andreas Gursky and the Landscape of Globalization.” (2015)
Ulmer, Mark “Where's the rock? An examination of rock music's long-term success through the geography of its artists' origins and its status in the music industry.” (2015)

CALIFORNIA STATE UNIVERSITY, STANISLAUS

Masters (Science):
Hanley, Natasha, “MSIS - Geospatial Analysis” (Helzer, 2014)

SAN DIEGO STATE UNIVERSITY

PhDs:

Carter, Norman "The Struggle to Create a Residential Community in Downtown Los Angeles." (Bosco, 2014)

Goode, Ryan "Rio de Janeiro's Emerging Sporting Mega-Event Geography: Unraveling the Carioca Pattern of Urban Development." (Aitken, 2015).

Uyeda, Kellie "Spatial and Temporal Variation in Fuel Accumulation in Southern California Chaparral." (Stow, 2015)

Masters (Arts):

Butler, Kathleen "Reconfiguring Spaces of Capital in Southern California: A Political Ecology of the Imperial Valley-San Diego County Water Transfer Agreement." (Debbané, 2015)

Evans, Hannah "Sustainable Sugar? Commodity Chains, Ethical Consumption, and the Violent Geographies of Sugar Production in Nicaragua." (Joassart-Marcelli, 2015).

Hanscom, Laurel "Assessing Vulnerability: A Synthesis of Climate Change Impacts to Agriculture." (Farley, Swanson, 2015)

Norwood, Steve "Annexation and Growth in the Desert." (Aitken, 2014)

Samarin, Alex "Assessing Sensitivity and Exposure of Irrigated Agriculture to Drought in the Krishna River Basin, India." (Biggs, 2015)

Walsh, Kyle "Open House on the Open Range: Rangeland Conversion in San Luis Obispo County, California." (Farley, 2015)

Masters (Science):

Chavis, Christopher "Assessing the Accuracy and Repeatability of Automated Photogrammetrically Generated Digital Surface Models from Unmanned Aerial System Imagery." (Stow, 2015)

Chuang, Yi-Ting "Utilizing Mobile Technology in GIS Education: A Case Study of Using iPad and iBooks in Fieldwork and Location Based Exercises." (Tsou, 2015)

Shih, Hsiao-Chien "Determining the Type and Starting Time of Land Cover and Land Use Change in Ghana Based on Discrete Analysis of Dense Landsat Image Time Series." (Stow, 2015)

Storey, Emanual "Postfire Regrowth Trajectories of Chamise Chaparral Based on Multi-Temporal Landsat Imagery." (Stow, 2015)

Stotz, Nicole "Usability Evaluation of Cloud-based Mapping Tools for the Display of Very Large Datasets." (Tsou, 2015)

Tangeman, Andrew "The Literacy Diaspora: Education Inequalities and the Production of Space in San Diego, California." (Jankowski, 2014)

Taniguchi, Kristine "Regional Impacts of Urbanization on Stream Channel Geometry: Importance of Watershed Area and Channel Particle Size." (Biggs, 2014)

SAN FRANSISCO STATE UNIVERSITY

Masters (Arts):

Auer, Stephanie "Climate Change Exposure Across The Mountain Goat Range: Metrics for Vulnerability Assessment" (Barbara Holzman, Ellen Hines 2015)

Finck, Hilary "Plastic Bag Legislation in the San Francisco Bay Area: A Diffusion of Innovation Study" (Nancy Wilkinson, Jason Henderson 2015)

Grant, Gia "San Francisco park bond funding: an equity mapping & analysis" (Jennifer Blecha, XiaoHang Liu 2015)

Hawk, Jamie "Classification, Vegetation-Environment Relationships, and Distribution of Plant Communities on Southeast Farallon Island, California" (Barbara Holzman, Ellen Hines, Jaime Jahncke 2015)

Kilduff, Kate "Environmental Justice Analysis of Nitrate Contamination in San Joaquin Valley Drinking Water" (Nancy Wilkinson, Jerry Davis 2015)

Kwan, Gary "The Emergence of New Suburban Chinese Community in Millbrae, California" (Qian Guo, Nancy Wilkinson 2015)

Lavender, Siobhan "Impacts of living roofs on urban climate in San Francisco" (Andrew Oliphant, Leonhard Blesius 2015)

Munsey, Genevieve "Geomorphology at the confluence of stream restoration and flood control" (Jerry Davis, Leonhard Blesius 2015)

Sian, Lourdes "Citizen Science and Social Media: Monitoring of Redwood Creek Restoration, Muir Beach" (Nancy Wilkinson, Barbara Holzman 2015)

Van der Leeden, Pamela "In Situ Validation of Satellite Sea Surface Temperature Measurements in a Northern California Upwelling Area" (Andrew Oliphant, Leonhard Blesius, John Largier 2015)

Masters (Science):

Garrett, Bradford "Investigations of surface roughness length modification in Black Rock City, Nevada" (Andrew Oliphant, Leonhard Blesius, 2015)

Christian, Peter "Using Low Cost UAS and Consumer Grade Cameras for Environmental Science Research" (Jerry Davis, Leonhard Blesius 2015)

Issell, Joseph "Pool Spacing in San Gregorio Creek, California" (Jerry Davis, Leonhard Blesius 2015)

Louie, Michael "Creating a Routing Network for Pedestrians and Wheelchair Users using City Data" (XiaoHang Liu, Jerry Davis 2015)

Mengisteab, Biniam "Artisinal gold mining activities and forest loss in upper Mazaruni Territory, Guyana, between 1986 and 2013" (Leonhard Blesius, XiaoHang Liu, Logan Hennessy 2015)

Oakley, Samuel "Estimating Ladder Fuels In A Mixed-Oak Forest Using LiDAR" (Leonhard Blesius, Jerry Davis 2015)

Waggoner, Elias "Normalized cuts for single tree isolation from LiDAR" (Ellen Hines, Leonhard Blesius, Bill Kruse 2015)

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PhDs:

Alonzo, Michael "Urban Forest Ecosystem Analysis Using Fused Airborne Hyperspectral and Lidar Data" (Roberts, 2015)

Baguskas, Sara "Influence of coastal fog on the physiology and distribution of Bishop pine on Santa Cruz Island, California" (Still, King, 2014)

Barron, Rebecca "Constraining the variability of optical properties in the Santa Barbara Channel: A phytoplankton story" (Siegel, 2014)

Bart, Ryan "Regional Streamflow Response to Wildfire in California Watersheds" (Hope, 2014)

Benza, Magdalena "Population Dynamics Throughout the Urban Context: A Case Study in Sub-Saharan Africa Utilizing Remotely Sensed Imagery and GIS" (Weeks, 2014)

Carter, Norman "The Struggle to Create a Residential Community in Downtown Los Angeles" (Bosco, 2014)

Chen, Cheryl "Assessing and Mapping Vulnerability in the California Commercial Sea Urchin Fishery" (Lopez-Carr, 2014)

Dev, Boris "Assessing Inequality Using Geographic Income Distributions" (Rey, 2014)

Garcia, Elizabeth "Ecohydrologic Modeling in Three Western U.S. Mountain Watersheds: Implications of Climate, Soil, and Carbon Cycling Interactions for Streamflow" (Tague, 2014)

Harrison, Laura "Impacts of Climate Variability on Surface Energy and Water Budgets in Sub-Saharan Africa" (Michaelsen, 2014)

Hartman, Brett "The Influence of Social Factors on Land Restoration in Rural Development Areas" (Chadwick, Cleveland, 2014)

Henderikx Freitas, Fernanda "Space-Time variability of bio-optical properties in the Southern California Bight" (Siegel, 2015)

Lin, Yang “Direct and Indirect Contributions of Photodegradation to Litter Decomposition in a California Grassland” (King, 2015)

Majid, Sadeghi K “Optimization Programming for Stormwater Control Measures: Methods for Sizing and Selection” (Loaiciga, 2015)

McKenzie, Grant “A Temporal Approach to Defining Place Types based on User-Contributed Geosocial Content” (Janowicz, Raubal, 2015)

Medrano, Fernando Antonio “Corridor Location: Generating Competitive and Efficient Route Alternatives” (Church, 2014)

Menzer, Olaf “Temporal and Spatial Modeling of Urban Carbon Dioxide Fluxes Using a Data Based Approach” (McFadden, 2015)

Niblett, Matthew “The Disruptive Anti-Covering Location Problem: New Modeling Perspectives and Solution Approaches” (Church, 2014)

Roth, Keely “Discriminating Among Plant Species and Functional Types Using Spectroscopy Data: Evaluating Capabilities Within and Across Ecosystems, Across Spatial Scales and Through Seasons” (Roberts, 2014)

Sadeghi, K. Majid “Optimization Programming for Stormwater Control Measures: Methods for Sizing and Selection” (Loaiciga, 2015)

Salim, Zia “Building Community? Analyzing Gated Housing Compounds in Bahrain” (Bosco, 2014)

Thorpe, Andrew “Mapping and quantifying methane emissions from local sources using airborne imaging spectrometers” (Roberts, 2014)

Masters (Science):

Bounds, Bonnie “Cultural Amenities and the Consumer City Hypothesis” (Couclelis, 2015)

Fournier, Eric Degree by Exam (Frew, 2105)

Grigsby, Erik, Degree by Exam (Roberts, 2014)

Kim, Jeong-Hyun “Harvesting Geospatial Intelligence from Geotagged Social Media Data: A New Type of Early Warning System against North Korea” (Clarke, 2015)

Meerdink, Susan “Linking Seasonal Foliar Chemistry to VSWIR-TIR Spectroscopy” (Roberts, 2014)

Potapenko, John “High-Resolution LiDAR Pointcloud Data Processing, Computation, and Visualization with Application to Erosion Analysis of the California Channel Islands” (Frew, 2015)

Smith, Taylor “Glacial Response to Climate Change in the Tien Shan Mountain Range of Central Asia” (Bookhagen, 2014)

Tan, Ann “Microscale Topographic Influence on Grassland Primary Productivity on Semiarid Hillslopes” (Chadwick, 2014)

UNIVERSITY OF CALIFORNIA, DAVIS

PhDs:

Bradley, Katharine "Supporting Urban Agriculture for Food Justice: An allyship lens on decolonizing research, urban farmer-to-farmer learning, and the neoliberalism critique in the East Bay, California." (Galt, 2015)

La Rochelle, Margaret "Portrait of a Learning Farm: Re-rooting Selves, Natures, and Relationships." (Patsy Eubanks Owens, 2015)

McHenry, Jennifer "Making Place in the Suburbs: Microscale Placemaking in Four Sacramento Neighborhoods." (Patsy Eubanks Owens, 2015)

Masters (Arts):

Murphy, Ryan "Spatial variation in vitamin A status and prevalence of deficiency among children in Cameroon: A comparison of interpolation methods." (Robert Hijmans, 2014)

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PhDs:

Ashraf, Cameran H. "The Spatiality of Power in Internet Control and Cyberwar." (John A Agnew, 2015)

Bland, James D. "Indigenous Forest Use as an Agent of Change in Plant and Animal Communities of the Temperate Sikkim-East Nepal Himalaya." (Hartmut S Walter, 2015)

Chen, Chen “Rural-urban Migration in China: Evidence from Anhui Province.” (C.Cindy Fan, 2015”)

Chu, Vena “Hydrologic dynamics of the Greenland Ice Sheet from remote sensing and field measurements.” (Laurence C. Smith, 2015)

Fan, Chuncui “A Spatial Analysis of Wage Inequality among Foreign-Born Workers in U.S. Metropolitan Areas.” (David L Rigby, 2014)

Goldstein, Jennifer E. “Mega-Development, Scientific Expertise, and the Remaking of

Indonesia's Degraded Peatlands.” (Judith A Carney, 2015)

Lyons, Evan A. “Disturbance Regimes and Landscape Heterogeneity in the Boreal Forest.” (Yongwei Sheng, 2015)

Narins, Thomas P. The Lure of Chinese State Capitalism in Latin America: Influence, Investments and Imports.” (John A Agnew, 2015)

Skiles, Sara Mckenzie “Dust and Black Carbon Radiative Forcing Controls on Snowmelt in the Colorado River Basin." (Gregory Okin, Thomas Painter, 2014)

Masters (Arts):

An, Karen

Keel, Mat

Khan, Hana M.

Madson, Austin

Miller, Maegan A

UNIVERSITY OF SOUTHERN CALIFORNIA

Masters (Science):

Anderson, Benjamin “Cartographic Approaches To the Visual Exploration of Violent Crime Patterns in Space and Time: A User Performance Based Comparison of Methods.” (Katsuhiko Oda, 2015)

Beattie, Christopher “3D Visualization Models As A Tool For Reconstructing The Historical Landscape Of The Ballona Watershed".” (Travis Longcore, 2014)

Block, Jeffrey “Spread Global, Start Local: Modeling Endemic Socio-Spatial Influence Networks.” (Karen Kemp, 2015)

Bunn, Haynes “Wake County District Overlay: An Online Electoral Data Visualization Application.” (Yao-Yi Chiang 2014

Chung, Corina “Integrating Spatial Visualization to Improve Public Health Understanding and Communication.” (Kirk Oda 2014

Cisneros, Alfredo “Population Disaggregation for Trade Area Delineation in Retail Real Estate Site Analysis.” (Karen Kemp, 2015)

Corum, Jerry “Using Pattern Oriented Modeling to design and validate spatial models: A case study in agent-based modeling".” (Karen Kemp 2014

Cotroneo, Antonio “Identification and Analysis of Future Land-Use Conflict in Mecklenburg County, North Carolina.” (Darren Ruddell, 2015)

Crowther Jr., Richard “A Comparison of Urban Land Cover Change: A Study of Pasadena and Inglewood, California, 1992 - 2011.” (Daniel Warshawsky, 2015)

D'Acosta, Jenora "Finding Food Deserts: A study of food access measures in the Phoenix-Mesa Urban Area." (Daniel Warshawsky, 2015)

Dao, Jimmy "A Comparison of Address Point and Street Geocoding Techniques in A Computer Aided Dispatch Environment"." (Darren Ruddell, 2015)

Dorsey-Spitz, Jenni "Modeling Nitrate Contamination of Groundwater in Mountain Home, Idaho Using the Drastic Method." (John Wilson, 2015)

Dowling, Jennifer "Finding Your Best-Fit Neighborhood: A Web Application for Online Residential Property Searches for Anchorage, Alaska." (Jennifer Swift, 2014)

Dustin, Mark "Monitoring Parks with Inexpensive UAVs: Cost Benefit Analysis for Monitoring and Maintaining Parks Facilities." (Su Jin Lee, 2015)

Enriquez, Annabel Lee "A Contributory Web-Based Application For Documenting Historic Resources: French Colonial Era Art Deco Architecture In Hanoi." (John Wilson, 2015)

Frazier, Emily "A Site Suitability Analysis for an Inland Port to Service the Ports of Los Angeles and Long Beach." (Robert Vos, 2014)

Gehring, Sarah "Semi-Automated Visualization of Spatial Information in Unstructured Text." (Yao Yi Chiang, 2015)

Graves, Mallory "Spatial Narratives of Struggle and Activism in the Del Amo and Montrose Superfund Cleanups: A Community-Engaged Web GIS Story Map." (Robert Vos, 2015)

Griffiths, Bradley "Radio Frequency Identification Queuing & Geo-Location (RAQGEO): A Spatial Solution to Inventory Management at XYZ Logistics, Inc." (Darren Ruddell, 2015)

Hanley, Charles "Using VHSR Multispectral Imagery and Object-Based Extraction to Discover Vernal Meadows through Vegetative Persistence at Fort Ord, California." (John Wilson, 2015)

Hyneman, Jared "Developing and Implementing a GIS-Based Framework to Identify Optimal Locations for Clean Water Wells in Sub-Saharan Africa." (Karen Kemp, 2014)

Johnson, Jennifer "Mapping Firing Ranges as Social Capital Generators in Houston, Texas." (John Wilson 2014

Johnson, Chad "Site Location Suitability Analysis for a Smart Grid Network." (John Wilson, 2015)

Jula, Patricia "Generating Bicyclist Counts using Volunteered and Professional Geographic Information through a Mobile Application." (Yao-Yi Chiang, 2015)

Kahn, Reina "Geospatial Analysis of Unintended Casualties during Combat Training: Fort Drum, New York." (John Wilson, 2015)

Kailihiwa, Solomon "Using Maxent to Model the Distribution of Prehistoric Agricultural Features in a Portion of the Hōkūli'a Subdivision in Kona, Hawai'i." (Karen Kemp, 2015)

Katehis, Spiridon "Validating the HAZUS Coastal Surge Model for Superstorm Sandy." (Jordan Hastings, 2015)

Kiani, Gina "Development of a Web GIS for Urban Sustainability Indicators of Oakland, California." (Robert Vos, 2014)

Mamer, Elizabeth "Exploring Urban Change Using Historical Maps: The Industrialization Of Long Island City (LIC), New York." (Karen Kemp, 2015)

Martinez, Carlos "Relocation Bay: Identifying a Suitable Site for the Tampa Bay Rays." (Daniel Warshawsky, 2015)

Merritt, Chandra "Determining the Utility of GIS in Border Disputes, Case Study: Sudan and South Sudan." (Daniel Warshawsky, 2015)

Metitiri, Oghenemine "An Application of GIS on Community Health Worker Patient Data Registries: A Case for GPS/GIS integration with mHealth Initiatives for Community Level Spatial Data Analyses for Chongwe District in Lusaka Province, Zambia." (Travis Longcore, 2014)

Metivier, Kathryn "Modeling Open Space Acquisition." (Yao-Yi Chiang, 2015)

Morganstern, Seth "Disparities in Food Access: An Empirical Analysis of Neighborhoods in the Atlanta Metropolitan Statistical Area." (Daniel Warshawsky, 2015)

Newland, Derek "Smart Growth and Walkability Affect on Vehicle Use and Ownership." (Robert Vos, 2015)

Parsons, Jonathan "Mapping Uniformity of Park Access Using Cadastral Data within Network Analyst in Wake County, NC"." (Robert Vos, 2015)

Pollock, James "A Maxent-Based Model for Identifying Local-Scale Tree Species Richness Patch Boundaries in the Lake Tahoe Basin of California and Nevada." (Travis Longcore, 2015)

Price, Samuel "Distribution of Sonoran Pronghorn (Antilocapra Americana Sonoriensis) On an Active Air Force Tactical Range." (Travis Longcore, 2015)

Reed, Dustin "Historical Temperature Trends in Los Angeles County, California." (Su Jin Lee, 2015)

Reeves, Ryan "Deriving Traverse Paths for Scientific Fieldwork with Multicriteria Evaluation and Path Modeling in a Geographic Information System." (Karen Kemp, 2015)

Rodriguez, Rachel "Integration of Topographic and Bathymetric Digital Elevation Model using ArcGIS Interpolation Methods: A Case Study of the Klamath River Estuary." (Su Jin Lee, 2015)

Root, Christie "Guiding Business Oriented Volunteered Geographic Information Through Geotrigger Services: A Case Study of CrossFit Affiliates." (Yao-Yi Chiang, 2015)

Rosen, Yonatan "A Fire Insurance Map Geocoder for Pre-Earthquake San Francisco." (Karen Kemp, 2015)

Schaefer, Bryan "Social Media to Locate Urban Displacement: Assessing the Risk of Displacement Using Volunteered Geographic Information in the City of Los Angeles." (Darren Ruddell, 2014)

Schultz, Christine "Crowdsourced Maritime Data: Examining the feasibility of using under keel clearance data from AIS to identify hydrographic survey priorities." (Karen Kemp, 2015)

Stoudt, Ana "Redefining urban food systems to identify optimal rooftop community garden locations: A site suitability analysis in Seattle, Washington." (Daniel Warshawsky, 2015)

Thomason, Andrew "Modeling Burn Probability: A MaxEnt Approach to Estimating California's Wildfire Potential." (Darren Ruddell, 2015)

Valenti, Adrianna "Estimating Populations at Risk in Data-Poor Environments: A Geographically Disaggregated Analysis of Boko Haram Terrorism 2009-2014." (Daniel Warshawsky, 2015)

Wimmer, Mark "Selection of Bridge Location over the Merrimack River in Southern New Hampshire: A Comparison of Site Suitability Assessments." (Karen Kemp, 2015)

Zipfel, Ruth "Network Accessibility and Population Change: Historical Analysis of Transportation in Tennessee, 1830-2010." (Jennifer Swift, 2015)

COLORADO

UNIVERSITY OF COLORADO, BOULDER

PhDs:

Anderson-Tarver, Christopher "Crisis Mapping the 2010 Earthquake in OpenStreetMap Haiti." (Barbara Buttenfield, 2015)

Cowie, Rory "Surface Water and Groundwater Interactions in Natural and Mining Impacted Mountain Catchments." (Mark Williams, 2014)

Gartner, Meredith "The occurrence, severity and interaction of mountain pine beetle and wildfire in the Colorado Front Range." (Thomas Veblen, 2015)

Humphrey, Jamie "Neighborhood Effects on Behavioral and Educational Trajectories of U.S. Children and Adolescents." (Elisabeth Root, 2015)

Klingburg, J. Travis "Exploring place: how independent tourism is changing the politics of geographic knowledge in China." (Tim Oakes, 2014)

Knowles, John “Spatio-temporal patterns of soil respiration and the age of respired carbon from high-elevation alpine tundra.” (Peter Blanken, 2015)

Maclaurin, Galen “Reverse engineering the National Land Cover Database: a machine learning algorithm for extending land cover data in the spatial and temporal domains.” (Fernando Riosmena, 2015)

Moussavi, Masha “Quantifying supraglacial lake volumes on the Greenland ice sheet from spaceborne optical sensors.” (Waleed Abdalati, 2015)

Rother, Monica “Conifer regeneration after wildfire in low-elevation forests of the Colorado Front Range: Implications of a warmer, drier climate.” (Thomas Veblen, 2015)

Skog, Lindsay “The Beyul Campaign: Spatial articulations of territory and religion in Khumbu, Nepal.” (Emily Yeh, 2015)

Masters (Arts):

Andrus, Robert “Influences of an active spruce beetle outbreak on fire severity in spruce-fir forests in southern Colorado.” (Thomas Veblen, 2015)

Counter, Max “La Doble Condicion: Physical Impairment and Internal Displacement in Colombia.” (Joe Bryan, 2015)

Crawford, Alexander “A New Look at the Summer Arctic Frontal Zone.” (Mark Serreze, 2014)

UNIVERSITY OF COLORADO, COLORADO SPRINGS

Masters (Arts):

Cook, Justin "A tale of 30 cities: effects of the Great Recession on fertility in America's 30 most populous cities" (Skop, 2015)

Knaus, Dustin "Temporal risk terrain modeling of aggravated assaults in Colorado Springs, Colorado" (Harner, 2015)

Santa Cruz, Sara "The UCCS greenhouse and farm: reconnecting people, place, and food" (Havlick, 2015)

Thomas, Shannon "Differences in rainfall interception losses of three tree species common to Colorado: Populus tremuloides, Picea engelmannii, and Pinus ponderosa" (Holder, 2016)

Tredway, Jeremy "Exploring the potential impact of low impact development (LID) techniques on runoff and streamflow in the Templeton Gap Watershed" (Havlick, 2015)

UNIVERSITY OF DENVER

PhDs:

Gabel, Sharon, Future Work: Denver Metropolitan Area Jobs in a Globalizing Economy. Andrew Goetz, 2014.

Hoover, Joseph, The Impact of Internet GIS on Access to Water Quality Information. Paul Sutton, 2014.

LaVanchy, Gary Thomas, When the Wells Run Dry: Water and Tourism Along the Western Coast of Nicaragua. Matthew J. Taylor, 2015.

Masters (Arts):

Hafley, Taylor, Changing Geographic Patterns of High- and Low-Income Groups in Eight United States Metropolitan Areas. E. Eric Boschmann, 2014.

Zettler-Mann, Aaron, Quantifying Human Impacts on River Bar Morphology Using Digital Photgrammetry. J. M. Daniels, 2014.

Honke, Jeffrey, Dust and Pleistocence Ice Ages: Eolian Sediments and Climate Change at Ziegler Reservoir, Snowmass Village, Colorado. J. M. Daniels, 2014.

Scheib, Walter Stanley "Examining the Spatial Aspects of Residential Energy Efficiency: GIS and Survey Analysis in Boulder County, Colorado. E. Eric Boschmann, 2015.

Mooney, Meghan Elizabeth "Pedestrian Mobility in Denver: A Mixed Methods Approach. Andrew Goetz, 2015.

CONNECTICUT

UNIVERSITY OF CONNECTICUT

PhDs:

Evringham, Kevin “United State Security Alliances in the Asian Pacific: A Pivot from Bi-Lateral to Multi-Laderal in the 21st Century.” (Nathaniel Trumbull, 2015)

Garceau, Timothy “A Multi-Scalar Model to Identify the Causes of Decreased Vehicle Miles Taveled (VMT) in the United States.” (Carol Atikinson-Palombo, 2015)

Torres, Jose “Tourist and Recreational Legacies of World’s Fairs.” (2015)

Yu, Shaolu “Transnationalism, Mobility and Identity: The Making of Place in Flushing, New York City.” (2015)

DELAWARE

UNIVERSITY OF DELAWARE

PhDs:

Bernstein, Elizabeth Rachel "Exploring integrated kinetic energy of polar mesoscale storms to estimate sea ice formation and salt fluxes in the Weddell Sea (Cathleen Geiger, 2015)

Chan, Weihan "The Arctic energy budget, sea ice area, and the atmospheric circulation" (Daniel Leathers, 2014)

Schorse, Mary "Questioning the transformational potential of Payment for Ecosystem Services (PES): A case (call/plea) for connectivity in managing complex socio-ecological systems" (Yda Schreuder, 2014)

Masters (Arts):

Jacobson, Hannah "That street's for them not us: Perceptions and experiences of public space in Georgetown, Delaware" (April Veness, 2014)

Pugliano, Eric " The effect of state and municipal statutes on the annexation process with a focus on annexation activities in Delaware" (April Veness, 2015)

Leiper, Chelsea "Co-creating an alternative: The moral economy of producer and consumer motivations for participation in farmers' markets" (Afton Clarke-Sather, 2014)

Masters (Science):

Apple, Charles "Climatology of the NAO and North Atlantic Hurricanes from 1950-2008: An analysis of physical and spatial correlations" (Tracy DeLiberty, 2015)

Callahan, John "Estimation of precipitable water over the Amazon Basin using GOES imagery" (Tracy DeLiberty, 2014)

Corradina, Victoria "Exploring open-source data fusion methods to create low-cost georeferenced aerial photography" (Cathleen Geiger, 2015)

Finan, Christina "Analysis of the forcings of the Pacific Decadal Oscillation in CCSM4" (Brian Hanson, 2014)

Hudson, Janice "Understory Variability of Photosynthetically Active Radiation in a Mid-Atlantic Deciduous Forest and its Effects on Lindera Benzoin L. Blume (Northern Spicebush)” (Del Levia, 2015)

Kane, Renato "Using Terrestrial Laser Scanning for Differential Measurement of Interannual Rock Glacier Movement in the Argentine Dry Andes" (Michael O'Neal, 2014)

Montini, Tessa "Tree-ring-based mass balance recontruction at Easton Glacier, Washington, USA" (Michael O'Neal, 2015)

Schreiber, Erika "Modeling the Distribution of Mountain Permafrost in the Central Andes, San Juan, Argentina: (Michael O'Neal, 2015)

Schroeter, Derek "Evaluating water resources in California using a synoptic typing methodology" (Daniel Leathers, 2014)

Suriano, Zachary "Lake-induced snowfall associated with Lake Erie and Ontario in CMIP5 GCMS" (Daniel Leathers, 2014)

DISTRICT OF COLUMBIA

UNITED STATES DEPARTMENT OF STATE; BUREAU OF INTELLEGENCE AND RESEARCH; OFFICE OF THE GEOGRAPHER AND GLOBAL ISSUES

Masters (Arts):

Doornbos, Eric "Arctic Climate Change, Energy, and Sovereignty – The Effects of an Exogenous Shock on Adherence to the Norms of Sovereignty as Supported by the Rule of Law" (Michael DeLurey, 2015)

Kaur, Sukhraj "Ethnic-Nationalist Separatist Movements in India: The Crisis in Punjab and Kashmir" (Heba F. El-Shazli, 2015)

Klosterman, Elliot "History of Baathist Regime Resilience in Syria from 1970 to 2014" (Zoltan Barany, 2015)

Masters (Science):

Serrano, Lauren "Conditions for Successful Security Assistance: A Case Study of Building Partner Capacity in Iraq." (Dr. Young and Col Wahlquist (ret.), National Intelligence University, 2015)

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

PhDs:

Viamonte Junko, Connie M. "You Crit Like a Girl: The Performance of Female Identity in the Virtual Gaming Community of World of Warcraft." (Guillermo Grenier, 2015)

Kiessling, Brittany "Ethnographic Investigations of Commercial Aquaculture as a Rural Development Technique in Tamil Nadu, India." (Juliet Erazo, 2016)

UNIVERSITY OF FLORIDA

PhDs:

Bullock, Renee "The Role of Gender in Value Chains and Asset Ownership Among Contracting Spice Producers in Highland and Lowland Settings in the East Usambaras, Tanzania" (Marilyn Swisher, 2015)

Bunting, Erin "A Spatio-Temporal Analysis of Landscape Dynamics under Changing Environmental Regimes in Southern African Savannas" (Jane Southworth, 2014)

Fullman, Timothy "Spatial Assessment of Elephant Impacts on Large Herbivores and Vegetation in Southern Africa" (Brian Child and Michael W. Binford, 2014)

Keellings, David "Investigating Heatwaves in Europe and Florida Using Extreme Value Analysis" (Peter Waylen, 2015)

Monzon Alvarado, Claudia "Management in Calakmul, Mexico: Institutions, Local Practice and Human-Environmental Outcomes" (Eric Keys, 2014)

Staub, Caroline "Hydrologic Processes on Small Islands: Linkages between Climate, Human Activity and Water Availability in Mauritius" (Michael W. Binford, 2015)

Steele, Jessica "Remote Sensing of Vegetation Dynamics and Change in Semi-Arid Ecosystems" (Jane Southworth, 2014)

Zhu, Likai "Remote Sensing Based Vegetation Dynamics in Southern Afirca: Physiographic Gradients Determine the Relative Importance of Environmental Controls on Savanna Vegetation" (Jane Southworth, 2014)

Masters (Science):

Guo, Qiao "The Relationship between Size and Rainfall Distribution of Atlantic Tropical Cyclones Prior to Making Landfall" (Corene Matyas, 2014"

Herrero, Hannah "Using Random Forest Classification to Improve Savanna Landscape Analysis: a Case Study of Chobe National Park, Botswana from 1990 to 2009" (Jane Southworth, 2015)

Kong, Weiyu "ENSO and the Covariance of Annual Rainfalls in the Arenal and Tempisque Basins Costa Rica" (Peter Waylen, 2014)Sakmar, Joshua: "Molecular technologies in the science and policy of Florida largemouth bass (Micropterus floridanus) management in Florida." (Steven Reader / Thomas Crisman, 2013)

GEORGIA

UNIVERSITY OF GEORGIA

PhDs:

Akers, Pete "Paleoclimate change in southern Indiana determined from speleothem climate proxies and analysis of modern precipitation oxygen isotope variations." (George Brook, 2016)

Pasqua, Alessandro "Advanced Geospatial Techniques and Archaeological Methods to Investigate Historical Rice Cultivation at Wormsloe Historic Site, Georgia." (Marguerite Madden, 2015)

Ramseyer, Craig "The Response of Drought and Precipitation Variability to Regional Climate Forcing in Northeast Puerto Rico." (Thomas Mote, 2016)

Shaw, Alana "Towards Environmental Justice for a Changing Arctic and its Original Peoples: Contesting the Colonial 'Politics of Nature' of Offshore Drilling in Alaska." (Hilda Kurtz, 2016)

Van Sant, Levi "Plantation Geographies: Race and Agricultural Governance in the South Carolina Lowcountry, 1865-Present." (Nik Heynen, 2016)

Masters (Arts):

Keegan, Caroline "Uneven Redevelopment and Low-Wage Worker Organizing in Post-Katrina New Orleans." (Nik Heynen, 2016)

Masters (Science):

Cai, Wuyang "EXAMINING LOCAL FOOD ENVIRONMENT FOR SNAP-ED PARTICIPANTS IN FULTON AND CLARKE COUNTIES, GEORGIA." (Xiaobai Yao, 2016)

Rackley, Jared "Southern Appalachian Cold Air Damming (CAD): A Climatology and Simulation of Case Studies." (John Knox, 2015)

Williams, Castle "Children Forgotten in Hot Cars: A Hybrid Mental Model Approach for Improving Public Health Messaging." (Andrew Grundstein, 2016)

Xu, Wenjing "Individual-based landscape connectivity modeling for African Elephant movement in the Kruger National Park, South Africa." (Marguerite Madden, 2016)

Zhang, Xuan "Preferred and Objective Measures of Built Environment Walkability of a University Campus." (Lan Mu, 2016)

ILLINOIS

CHICAGO STATE UNIVERSITY

Masters (Arts):

Alfraihat, Raja, "Urban Heat Island Analysis Using LANDSAT TM: A Case Study of Chicago," (Mulugeta, 2015)

Delnavaz, Saeid, "Comprehensive Analysis of Corner Stores and Schools in an African-American Neighborhood in Chicago," (Block, 2015)

El-Amin, Qaiyim, "The Upcycle of the Former Rank & Son Buick Delaership: A Comparative Study of Sustainable Real Estate Practices, (Burnett, 2015)

Freihat, Tamara, "Urban Sprawl Analysis and Modeling: A Case Study of Northeastern Illinois," (Mulugeta, 2015)

Marseille, Muriel, "On Poverty and Sustainability: A Geographic Analysis of Poverty and Green Technology in Urban Chicago," (Block, 2015)

Onyango, Lilian, A Remote Sensing Analysis of the Impact of Land Cover Change on Surface Temperature in Nairobi: 1984-2010," (Block 2015)

Roedl, Laura, "Land Use/Land Cover Changes on the Coastal Islands of India and Bangladesh," (Block, 2015)

Ssepuuya, Fredrick, 2016

Waarith, Waliyyuudin, 2016.

NORTHERN ILLINOIS UNIVERSITY

PhDs:

McCarragher, Shannon R. "Ecological and Evolutionary Invasion Dynamics of Lonicera maackii (Amur Honeysuckle) in Relation to White Oak Savanna Restoration Management at Nachusa Grasslands, Illinois, USA." (Rigg, 2015)

Masters (Science):

Dalbec, Aubrey "Genesis and Geomorphology of Superimposed Landforms on Ice-Walled-Lake Plains in Northern Illinois." (Konen, 2015)

Fultz, Andrew J. "Fatal Weather-related General Aviation Accidents in the United States: 1982-2013." (Ashley, 2015)

Furness, Walter W. "Food Sovereignty, Food Security, and Community Gardens in Rockford, IL." (Gallaher, 2015)

Kordek, Kristopher M. "Development of a Population Density-Based Regression Model to Forecast Discharge-Precipitation Ratios in Midwestern Urbanizing Drainage Basins." (Changnon, 2015)

Long, David E. (Wilson, 2015)

Long, David E. "Planning for the Future of South 4th Street, DeKalb, IL." (James, 2015)

Marinaro, Alan J. "Reassuring the Reinsurers: The Impact of the Precursive Indian Ocean Dipole on Seasonal Atlantic Cyclone Activity." (Changnon, 2015)

SOUTHERN ILLINOIS, CARBONDALE

Masters (Science):

Bonney, Makayla. "An Empirical Analysis of the Role of Geography in Sustainability Education" (Leslie Duram, 2014)

Feng, Guanling. "Monitoring Drought Intensity in Illinois with a Combined Index" (Guangxing Wang 2014)

Lampo, Miles. "A Validation Study of the North Carolina Rapid Field-Based Rating System for Discriminating Flow Permanence Classes of Headwater Streams in Agricultural Basins in Southern Illinois" (Jonathan Remo, 2014)

Larimore, Ryan. "Empirical Analysis of Descendent Insurance as a Driver of Demographic Transition" (Chris Lant, 2014)

Mahgoub, Mohamed. "New Multiple-Scale Technique for the Assessment of Relative Flood Vulnerability" (Jonathan Remo, 2014)

Shrestha, Samir. "Sensitivity of Hazus-MH Flood Loss Estimates to Selection of Building Parameters: Two Illinois Case Studies" (Jonathan Remo, 2014)

Stuurman, Andisiwe. "An Assessment of Abandoned Mine Reclamation in South Africa Using a Survey of Environmental Experts" (Silvia Secchi, 2015)

Suiter, Ashley. "Remote Sensing Based Detection of Forested Wetlands: An Evaluation of LiDAR, Aerial Imagery, and Their Data Fusion" (Guangxing Wang, 2015).

Wang, Chen. "Simulation and Evaluation of Stream Flow and Pesticide Prediction in Orestimba Creek Watershed Using AnnAGNPS Model" (Tonny Oyana, 2014)

SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE

Masters (Science):

Barr, Julian, "Welcome to the Gay-borhood: Identifying Key Characteristics of a Potential LGBT District in St. Louis." (Gillian Acheson, August 2014)

Gunderson, Dean, "Community Gardening in St. Louis: A Micro-Scale"

Lamb, Breanna, "Comparison of Carbon Dioxide Emissions at a Roundabout and Signalized Stoplight in a Mid-sized City." (Mark Hildebrandt, May 2015)

McWhorter, Chelsie, "An Examination of Firefighter Cognitive Maps." Gillian Acheson, (August 2014)

UNIVERSITY OF ILLINOIS, URBANA CHAMPAGNE

PhDs:

De Leon, José D. Alejandro, "Orchestrating Economic Development: Exploring Interorganizational Networks in the Chicago Metro Area" (Geoffrey Hewings, 2015)

Fischer, Harry. "Reframing Citizenship by Decentralizing Development Under India's National Rural Employment Guarantee Act," (Ashwini Chhatre, 2014)

Colette, April Lynn, "Floods, Favors, and Fixes: The Reproduction of Vulnerability in Santa Fe, Argentina" (Jesse Ribot, 2015)

Minn, Michael, "The Energy Futures of Long-distance Passenger Rail in the United States." (Julie Cidell, 2014)

Masters (Arts):

Ana Grahovac, "Abortion Access in the U.S.: Is it a Fading Reality? A Mixed Methods Approach"

Masters (Science):

Jamie Andrew Fishman, "Geospatial Analysis of Preventable Emergency Department Visits in Chicago, IL"

Nathan Pavlovic, "Burning Questions: A Geospatial Analysis of Fire Regime Change in Côte d'Ivoire, 1984-2014"

Yi Zou, "A Contextual Classification Approach for Forest Land Cover Mapping Using High Spatial Resolution Multispectral Satellite Imagery – A Case Study in Lake Tahoe, California"

INDIANA

BALL STATE UNIVERSITY

Masters (Science):

Boren, Candace "Examining spatio-temporal changes in social vulnerability to urban heat between 1990 and 2010 in Allegheny County PA and Marion County (IN)" (Jason Yang, 2015)

Pesel, Brent "Testing Hospice Capacities for a Response to a Mass Casualty Urban Tornado Event" (Petra Zimmermann, 2015)

Preidt, Kathryn "Crisis in a Small American City: A spatial analysis of race, subprime lending, and foreclosure in Muncie, IN" (Steven Radil, 2015)

INDIANA UNIVERSITY

Masters (Science):

Matheus, Trevis, "A 332-year Reconstruction of Midwest Droughts from Tree-rings" (Maxwell, 2014)

IOWA

UNIVERSITY OF IOWA

PhDs:

Ding, Deng. "An Integrated Modeling Framework of Socio-economic, Biophysical, and Hydrological Processes in Midwest Landscapes: Remote Sensing Data, Agro-hydrological Model, and Agent-based Model". (Linderman, 2014)

Wang, Wei. "Automated Spatiotemporal and Semantic Information Extraction for Hazards". (Stewart, 2014)

Masters (Arts):

Gharani, Pedram. "Modeling Spatial Accessibility for In-Vitro Fertility (IVF) Care Services in Iowa". (Stewart, 2014)

Kolarik, Jordan. No thesis. (Linderman, 2015)

Rodriguez, Jessica. No thesis. (Priest, 2015)

Shang, Yiqing. "Spatial and Temporal Patterns of Genetic Variation of H1N1 Influenza Viruses in China in the 2009 Pandemic". (Carrel, 2014)

Vredenburg, Jeffrey. No thesis. (Tamerius, 2014)

KANSAS

FORT HAYS STATE UNIVERSITY

Masters:

Fry, Joshua "Redescription of a Specimen of Pentaceratops (Ornithischia: ceratopsidae) and Phylogenetic Evaluation of Five Referred Specimens from the Upper Cretaceous of New Mexico" (Dr. Laura E. Wilson, 2015)

Kirchner-Smith, Mackenzie "3D Geometric Morphometrics in Modern and Extinct Foot-Propelled Diving Birds: An Evaluation of the Tarsometatarsus for Species Identification" (Dr. Laura E. Wilson, 2015)

Schaffer, Carol "Construction of High Resolution Contour Maps of Major Oil-Producing Subsurface Layers in Trego, Ellis, Russell, Rush, Barton and Pawnee counties, Kansas using ARCMAP" (Dr. Kenneth Neuhauser, 2015)

KANSAS STATE UNIVERSITY

PhDs:

Brien, Lynn "Modeling Eutrophication Vulnerability in Coastal Louisiana Wetlands Impacted by Freshwater Diversion: A Remote Sensing Approach." (Douglas Goodin, 2015)

Pankl, Elisabeth "The Critical Geographies of Frida Kahlo." (Kevin Blake, 2015)

Masters (Arts):

Briwa, Robert "Experiencing Provence in the Regional Imagery of Peter Mayle and Pierre Magnan." (Kevin Blake, 2015)

Link, Tyler "Effects of Sugarcane Expansion on Development and Land Use and Land Cover Change (LULCC) in Brazil: A Case Study in the State of Goias." (Marcellus Caldas, 2015)

UNIVERSITY of KANSAS

PhDs:

Attwairi, Almokhtar M. "Analyzing Urban Growth and Urban Management for the City of Tripoli, Libya." (Steve Egbert/Garth Myers, 2015)

Barve, Vijay. "Discovering and Developing Primary Biodiversity Data from Social Networking Sites." (Chris Brown/Townsend Peterson, 2015)

Campbell, Joshua S. "Imagery to the Crowd, MapGive, and the CyberGIS: Open Source Innovation in the Geographic and Humanitarian Domains." (Jerry Dobson, 2015)

Chang, Woojin. "A Historical Geography of the Korean Experience in America." (James Shortridge, 2014)

Cochran, Ferdouz V. "Biophysical Indicators of Sustainability for Climate Change Mitigation and Adaptation." (Nate Brunsell, 2015)

Fekete, Emily R. "Four$quare: Hybrid Spaces of Economic Activity." (Barney Warf, 2015)

Gillette, Brandon A. "Relationships between Middle Childhood Outdoor Experiences and an Adult Individual's Knowledge of the Environment." (Steve Egbert, 2014)

Gilley, Jessey E. "Imagining, Practicing and Contesting Road Development in Southern West Virginia, 1920s to 1970s." (Barney Warf, 2015)

Layzell, Anthony L. "Plio-Pleistocene Landscape Evolution on the High Plains of Southwestern Kansas." (Rolfe Mandel, 2015)

Mayberry, Blake L. "Bury Me on the Prairie: Nature and Culture in the Postrural Midwest." (James Shortridge, 2014)

Oakes, John T. "Migrancy, Markets and Survival: Transitional Lives in South African Space." (Chris Brown/Garth Myers, 2014)

Ramos Viera, Aida. "Forest Conservation Policies and the Neoliberal Land Reform in Mexico: A Cultural Ecology Approach to the Payments for Environmental Services in the Huasteca Potosina Region." (Peter Herlihy, 2015)

Woodburn, Terri L. "Paleoenvironmental Reconstruction for the Brady Soil in the Nebraska Loess Uplands Using Biosilicate and Bioturbation Analyses." (William Johnson, 2014)

Masters (Arts):

Adamz, Zachary M. "Territorializing the Koryo Saram: Negotiating South Korean Perspectives on Homeland and Diaspora." (Alex Diener, 2015)

Ding, Jiefang. "The Fiscal and Spatial Impacts of Church-Owned Property on a Municipalilty--A Case Study of Lees Summit, MO." (Barney Warf, 2014)

French, Keith A. "A New Approach for Visualizing the Spatial Distribution of Population Over Time." (Xingong Li, 2015)

Kotlinski, Nicholas E. "A Political Ecology of Oil Palm in the Peruvian Amazon." (Chris Brown, 2015)

McClure, Katrina C. "Value, Access and Use of Ethnobotanical Databases in Ethnopharmacology: Methods, Ethical Research, and a Case Study on the Aurukun Ethnobiology Database Project." (Jay Johnson/Kelly Kindscher, 2015)

Masters (Science):

Cai, Lei. "Extreme Events over the Contiguous United States Protrayed in a CESM-WRF Dynamical Downscaling Framework." (David Mechem, 2014)

Chatfield-Taylor, William E. "An Assessment of Factors Affecting the Spatial Distribution of Audubon's Shearwater (Puffinus l. iherminieri) throughout the Caribbean." (William Johnson/Johan Feddema, 2015)

Drager, Kim I. "Modification of Fine- and Coarse-Textured Soil Material Caused by the Ant Formica Subsericea." (Dan Hirmas/Steve Hasiotis, 2015)

Feng, Boyu. "West Antarctica Snow Accumulation Trend Study (1979-2011) from Snow Radar and Ice Core Profiles." (David Braaten, 2014)

Messner, Claire Forgacs. "Post-IR IRSL Dating of the Nenana Dune Field in the Tanana Lowlands, Central Alaska." (William Johnson, 2015)

Mitchell, Christopher J. "An ACARS Climatology of the Boundary Layer Near the Coast of Southern California." (David Rahn, 2015)

Nelson, Kevin J. "Evaluation of Warm-Rain Microphysical Parameterizations in Mesoscale Simulations of the Cloudy Marine Boundary Layer." (David Mechem, 2015)

Zong, Cheng. "Late Pleistocene Sea Levels and Resulting Changes in Global Land Distributions." (Jerry Dobson, 2015)

KENTUCKY

UNIVERSITY OF LOUISVILLE

Masters (Science):

Biddle, Donald "Mapping debris-covered glaciers in the Cordillera Blanca, Peru: an object-based image analysis approach." (Mountain, 2015)

Montgomery. Victoria "A qualitative analysis of communality in Louisville community gardens." (Walker, 2016)

Caixeta, Fernando "An evaluation of MESMA applied to Landsat 8 OLI images for mapping land cover in southern Africa's savanna." (Gaughan, 2016)

Bode, Claire-Louise "Investigating the influences of climate on high elevation snowpack hydrology in the Upper Colorado Region." (Day, 2016)

Hall, Justin "Urban flooding and sewer inundation on the University of Louisville Belknap campus." (Day, 2016)

Nieves, Jeremiah J. "Global population distributions and the environment: discerning global and regional patterns." (Gaughan, 2016)

Peters, Faye "Analyzing the extent and intensity relationship of kudzu (Pueraria montana) infestations using the normalized difference vegetation index." (Stevens, 2016***)***

WESTERN KENTUCKY UNIVERSITY

Masters (Science):

Barringer, Ellen R. (2015) A Mixed Methods Assessment of the Development, Use, and Educational Effectiveness of University Campus Sustainability Tours (Adviser: Leslie North).

Blackburn, Nathanial (2016) Apatite Helium Thermochronology of the Blue Nile Canyon, Ethiopian Plateau. (Advisor: Nahid Gani).

Bledsoe, Lee Anne (M.S. Geoscience 2015) An Investigation of Groundwater Flow in the Vicinity of Patoka Dam, Indiana (Director: Chris Groves).

Bodine, Tyler (2016) Reservoir Study and Facies Analysis of the Big Clifty Sandstone in South Central Kentucky (Advisor: Michael May).

Coats, Lamar (2016) The Influence of Tropical Cyclones on Droughts and Warm Season Precipitation in Tennessee and Kentucky (Advisor: Greg Goodrich).

Devine, Steven M. (2016) Petrographic Controls on Weathering of the Haney Limestone (Advisor: Michael May).

Ebrahimi, Kianoosh (2015) Zero-Waste Planning at Higher Education Institutions: A Case Study of Western Kentucky University (Advisor: Leslie North).

Oglesby, Jonathan (2016) An Adaptive Visual Learning Approach for Waterborne Disease Prevention in Rural West Africa (Advisor: Leslie North).

Salley, D. Connor (2016) Advancing Methods to Measure the Atmospheric CO2 Sink from Carbonate Rock Weathering (Advisor: Chris Groves).

Winchester, Jesse N.F. (2015) Emissions From Concentrated Animal Feeding Operations During Wet and Dry Periods in the Southeastern United States (Advisor: Rezaul Mahmood).

Younger, Keri (2015) Assessing Mesoscale-Equivalent Temperature in Kentucky (Advisor: Rezaul Mahmood).

LOUISIANA

LOUISIANA STATE UNIVERSITY

PhDs:

Cheetham, Louise Anthea "Curated Landscapes: The Evolution of the Postcard Shot" (Colten, 12/2015)

Fu, Cong "Planning Towards Equal Spatial Accessibility of NCI Cancer Centers Across Geographic Areas and Demographic Groups in the U.S." (F. Wang, 8/2015)

Hotard, Corey David "Just Throw it in the Pot! The Cultural Geography of Hidden Landscapes and Masked Performances in South Louisiana Gumbo Cooking" (Mathewson, 12/2015)

Jia, Peng "Delineating Hospital Service Areas in Florida Based on Patients' Travel Patterns" (F. Wang, 12/2015)

Mohammad, Bedoor "Object-Based Coastal Morphological Change Analysis Based on LiDAR and Hurricane Events" (L. Wang, 5/2015)

Pharr, Lauren "Using GPS Tracking and Long-Term Decomposition Studies to Investigate Vulture Scavenging and Flight Patterns in Relation to a Forensic Anthropology Facility in Texas" (Leitner, 8/2015)

Renken, Katherine "Investigations into Ecogeomorphodynamics of Coastal Embryo Dunes at Padre Island National Seashore, Texas" (Namikas, 8/215)

Watkins, Case "An Afro-Brazilian Landscape: African Oil Palms and Socioecological Change in Bahia, Brazil" (Sluyter, 12/2015)

Watson, Rachel "Excavations and Interpretation of Two Ancient Maya Salt-Work Mounds, Paynes Creek National Park, Toledo District, Belize" (McKillop, 8/2015)

Worms, Jamie "Mental Mapping the Transformation of Social Space in Rio's Oldest Favela: Morro da Provdencia" (Sluyter, 8/2015)

Masters (Arts):

Hiers, Chaney "Assessment of Age at Weaning for Post-Contact Maya of Tipu, Belize, Using Stable Carbon, Nitrogen, and Oxygen Isotope Ratios" (Listi, 5/2015)

Hurtubise, Jenna "Mortuary Practices and Social Identity at Matrix 101, La Leche Valley, Peru" (Chicoine, 8/2015)

Noack, Tonje "Sexual Dimorphism in the Crania in a Norwegian Sample" (Manhein, 5/2015)

Warner, Jacob "Production, Discard, and Urban Life at the Early Horizon Center of Caylan, Coastal Peru" (Chicoine, 8/2015)

Whitten, Ashley “Early Horizon Community Organization and Neighborhoods as Seen Through the Spatial Analysis of Residential Architecture at the Urban Center of Caylan, Peru” (Chicoine, 8/2015)

Wyatt, Sara “A Study of the Effectiveness of a Common Household Chemical for Maceration” (Listi, 5/2015)

Masters (Science):

Gao, Shu “Shallow Water Depth Inversion Based on Data Mining Models” (L. Wang, 12/2015)

Kuai, Xuan “Examining Healthy Food Accessibility in Baton Rouge, Louisiana Using A Huff-modified 2SFCA Method” (F. Wang, 5/2015)

Pino, Jordan “Impacts of the Three-Dimensional Oceanic Thermal Structure and Translation Speed on Tropical Cyclogenesis and Intensity Fluctuations during the 2005 North Atlantic Hurricane Season” (Rohli, 12/2015)

Robles, Herman Nick “Investigating Prehistoric Exchange in New Zealand: Portable XRF and Spatial Analysis of South Island Obsidian” (McKillop, 8/2015)

Tucker, Clay “Dendrotempestology: Identifying the Statistical Relationship Between Hurricanes and Tree Growth in the Pine Savannas of Coastal Mississippi” (Trepanier, 12/2015)

Zhang, Lijie “Measuring Primary Health Care Accessibility in Mississippi State Using an Extended Kernel Density 2SFCA Method” (L. Wang, 12/2015)

MARYLAND

TOWSON UNIVERSTIY

Masters (Science):

Truelove, Leona “The Effect of Hurricane Isabel on the Socioeconomic Character of Bowley's Quarters, MD" (Barnes, 2015)

Akinlotan, Ose “The Perceptual American Heartland" (Thompson, 2015)

Ross, Erin "Median Household Income Surrounding National Parks" (Morgan, 2014)

Kraftchik, Melissa "Use of On-Street Parking by Vehicles Displaying Disability Placards" (Schmitz, 2014)

Alghamdi, Ali Saeed "Detecting Urban Heat Island Changes Using Remote Sensing Techniques and Air Temperatures Time Series Analysis in Arid Climates: An Application to Riyadh City - Kingdom of Saudi Arabia" (Moore, 2014)

UNIVERSITY OF MARYLAND, COLLEGE PARK

PhDs:

Dodson, Zan: "Prolonged Illness Among Subsistence Agricultural Households in Rural Mozambique: Coping Strategies and Policy Levers." (Julie Silva 2015)

Huang, Wenli. Monitoring and Assessing Forest Biomass From Disturbance and Recovery With LIDAR and SAR." (Guoqing Sun, 2015).

Montano, Enrique. "Impact of Satellite Geometric Distortions on Landscape Analysis: Effects on Albedo." (Christopher Justice, 2015).

Montesano, Paul. "The Uncertainty of Spaceborne Observation of Vegetation Structure in the Taiga-Tundra Ecotone: a Case Study in Northern Siberia." (Ralph Dubayah, 2015).

Shi, Qinqing. "The tibetan plateau surface energy budget and its teleconnection with the east asian summer monsoon: evidence from ground observations, remote sensing, and reanalysis datasets." (Shunlin Liang, 2015).

Song, Xiaopeng. "Improved Quantification of Forest Cover Change and Implications for the Carbon Cycle." (John Townshend, 2015).

Tang, Hao. "LIDAR Remote Sensing of Vertical Foliage Profile and Leaf Area Index." (Ralph Dubayah, 2015).

Tao, Xin. "Estimating the fraction of absorbed photosynthetically active radiation from multiple satellite data." (Shunlin Liang, 2015).

Tyukavina, Alexandra. "Characterizing Forest Disturbance Dynamics in the Humid Tropics Using Optical and LIDAR Remotely Sensed Data Sets." (Matthew Hansen, 2015).

Other: Master of Professional Studies in Geospatial Information Sciences (MPS/GIS):

All of the students listed below graduated during the SPRING of 2015:
Abkowitz, Jason; Curtin, Samantha E; Dzano, Haris; Grolling, Dave; Gwaltney, Thomas Stewart; Iacangelo, Seth Gerard; Newell, Nicholas R; Novicio, Mark; O'Brochta, David M;Schott, Mary Judith; Skilling, Derek; Smith, Eli Stefan; Carter, Kelsey Nicole; Agudelo, Natalia; Datta-Chaudhuri, Mihir; Kundu, Piyali; Ober, Kellen; O'Brien, Patrick John; Olexy, Trevor Christian; Palowitch, Michael Andrew; Schroeder, Matthew Robert; Sulzinger, Daniel; Zietz, Doug Ian; Ober, Kellen; Ikhuoria, Asuelimen Ehimen; Ali, Kareem; Bartholomew, Antoine; Carter, Kelsey; Chamberlain, Kevin; Eshleman, Adam; Fairbabk, Matthew; Rosenberg, Melanie

Master Certificate of Professional Studies in Geospatial Information Sciences (MPS/GIS):

All of the students listed below graduated during the SPRING of 2015:
Ellicott, Evan; Hart, Menolly; Lasko, David Alan; Dupuy, Danielle; Brian, Tavernia

MASSACHUSETS

CLARK UNIVERSITY

PhDs:

Lauermann, John, "Event-Led Development: Sporting Mega-Events as Urban Policy Experiments" (Mark Davidson, 2014)

Morrow, Oona, "Urban Homesteading: Diverse Economics and Ecologies of Provisioning in Greater Boston" (Deborah Martin, 2014)

Si, Kangping, "Multiple-Objective Spatial Optimization with Application to Site Search Problems in a Raster Space" (J. Ronald Eastman, 2014)

Thatcher, James E., "Mobile Navigation Applications: Hidden Ontologies, Epistemic Limits, and Technological Teleology" (James McCarthy, 2014)

Trusel, Luke D., "Quantifying Antarctic Ice Sheet Surface Melt: Recent Dynamics and Future Trajectories" (Karen Frey, 2014)

Vanderhoof, Melanie, "The Impact of Mountain PIne Beetle Outbreaks on Surface Energy and Water Fluxes, South Central Rocky Mountains" (Christopher Williams, 2014)

Masters (Arts):

Bravo Frey, Alicia Mireya, "Negotiating knowledges through institutions: The micropolitics of environmental governance in the Oxapampa-Ashaninka-Yanesha Biosphere Reserve" (Anthony Bebbington, 2014)

Masters (Science):

Danko, Joseph, III, "Spatial Analysis of Environmental Injustice as an Industrial Legacy of Worcester, Massachusetts (1870-2011)" (John Rogan, 2014)

Earl, Lucas, "Satellite-Derived Glacier Area Change in North Asia: 1985-2014" (John Rogan, 2014)

Geller, Christina, "Eat, Play, Learn: The Relationship Between Built Environment, Socio-Economics, and Childhood Obesity and Its Association with Performance Stadardized Tests in Worcester, MA" (John Brown, 2014)

Kappel, Alexander, "Mapping of the Asian Longhorned Beetle's Time to Maturity and Risk to Invasion at Contiguous United States Extent" (Christopher Williams, 2014)

Manley, Matthew J., "Measuring and Mitigating the Urban Heat Island: The Potential of Tree Planting in Reducing Land Surface Temperatures in Worcester, MA" (John Rogan, 2014)

Altbaum, Elliot, "Clustering Equity in Regional Planning: A Methodological Examination in the case of Minneapolis-St. Paul, MN" (Deborah Martin, 2015)

Andrews, Michelle, "Mapping land surface temperature variability across the urban gradient in Worcester, Massachusetts using in situ thermochrons and Landsat-8 Thermal Infrared Sensor (TIRS) data" (John Rogan, 2015)

Berman, Samuel, "Chromophoric Dissolved Organic Matter across a Marine Distributed Biological Observatory in the Pacific Arctic Region" (Karen Frey, 2015)

Cunningham, Sean, "Mapping transition potential of coastal land-cover to pond aquaculture in Southeast Asia" (J. Ronald Eastman, 2015)

Dardas, Anastassios, "Measuring Potential Accessibility to Health Care Services in Southeastern Massachusetts" (John Rogan, 2015)

Duncan-Brown, Jamie, "Reservoir Sedimentation In the Western United States: Evaluating OLS and GWR Models"(Samuel Ratick, 2015)

Finegold, Yelena, "Probabilities in land change modeling: a case study in Zambia" (R. Gilmore Pontius, 2015)

Litchfield, Cody, "Landslide Vulnerability Analysis of El Salvador" (Samuel Ratick, 2015)

Patel, Kayla, "Evaluating conflict surrounding mineral extraction in Ghana: Assessing the spatial interactions of large and small-scale mining" (John Rogan 2015)

Ritter, Zoe, "Spatial variation among factors influencing social conflict in Peru: an analysis using geographically weighted regression (GWR)" (John Rogan, 2015)

Sturdivant, Emily James, "Snowmelt detection from QuikSCAT and ASCAT satellite radar scatterometer data across the Alaskan North Slope, 2000–2014" (Karen Frey, 2015)

MICHIGAN

MICHIGAN STATE UNIVERSITY

PhDs:

Baylis, David "Governmental Narratives of Health, Gender, and Place in the Early Turkish Republic." (Kyle Evered, 2015)

Grevstad-Nordbrock, Ted "An Analysis of Diverse Gentrification Processes and their Relationship to Historic Preservation Activity in three Chicago Neighborhoods." (Igor Vojnovic, 2015)

Langley, Shaun "Science in the Digital Age: Overcoming Uncertainty and the Adoption of Volunteered Geographic Information for Science." (Joseph Messina, 2014)

Luehmann, Michael "Relict Pleistocene Deltas in the Lower Peninsula of Michigan." (Randall Schaetzl, 2015)

Schultze, Steven "Effects of Climate Change and Climate Variability on the Michigan Grape Industry." (Lifeng Luo, 2015)

Tang, Ying "Climate Change Impact Assessments for Regions of the United States." (Shiyuan Zhong, 2015)

Yang, Zutao "Spatial and Temporal Variations of Ecosystem Characteristics: Updates from three Case Studies." (Jiquan Chen, 2015)

Masters (Science)

Butvidas, Eric "The Global Dracunculiasis Eradication Campaign." (Sue Grady, 2015)

Connallon, Christopher "Mapping and Characterizing a Relict Lacustrine Delta in Central Lower Michigan." (Randall Schaetzl, 2015)

Kettle, Jennifer "A Paleoclimatic Interpretation of Southeastern Lower Michigan over the last 2000 years Inferred from the Fossil Pollen Record of Otter Lake." (Catherine Yansa, 2015)

WESTERN MICHIGAN UNIVERSITY

Masters (Arts):

Curtis Aardema "Residential Property Values and Historic Districts: A Kalamazoo Case Studlz", (Dr. Gregory Veeck, 2015)

Alexander Ebenstein "Using an Interacti for Management Issues in Asylum Lake Preserve. Kalamazoo. MI", (Dr. David Lemberg, 2015)

Bradley Farley "Environmental Impact of Conference Realignment", (Dr. Lisa DeChano-Cook, 20ts)

Fatma Ulku Karatas "Estimating Sediment and Nutrient Loading in the Davis Creek Watershed Using Soil and Water Assessment Tool (SWAT)", (Dr. Chansheng He, 2015)

Nicholas K. Mucha "The Demand for Change: A Study of Recreational Amenities for Ramona Park", (Dr. David Lemberg, 2015)

Marina Pavletic, "Tourism and Organic Food Production in Croatia: Case Stud), of the Cetina Region", (Dr. Lucius Hallett IV, 2015)

Jon Eric Klingenberg Rasmussen "The Foundation of Cistercian Monasteries in France 10981789: An Historical GIS Evaluation", (Dr. Gregory Veeck, 2015)

Glhaliayi Sataer "Spatial Patterns of Drought Persistence in Xinjiang (A.R). China", (Dr. Lei Meng, 2015)

Douglas Vander Hulst "The Adoption and Diffusion of LEED Certification in the Great Lakes Region: 2008-2015", (Dr. Gregory Veeck, 2015)

Theses from 2014

Emmanuel Andoh "Credit Card System in Ghana: An Investigation of Wh), Credit Cardsare Not Widely Used in Ghana and How Widespread Use Ma), Be Implemented", (Dr. Christopher Scott Smith, 2014)

Rudy Bartels "A Climatological Study of Drought in Southern Michigan", (Dr. Lei Men g, 2014)

Bryan Bommersbach "Predictive Model Object Based Image Analysis (GEOBIA) in the Eocene of Wyoming", (Dr. Charles E-..ro.r, 2014)

Ross J. Crawford "salmonid Habitat Restoration on the Chocolay River. Michigan", (Dr. David Lemberg,2014)

John-Luke D'Ambrosio "Local Planning and High-Speed Rail: Responses and Perceptions in a Developing Amtrak corridor", (Dr. Christopher Scott Smith, 2014)

Nathaniel G. Fuller "Michigan's Clay Bluffs: The Description and Comparison of an ErosionDependent Natural Communitlz", (Dr. Kathleen Baker, 2014)

Shannon McEwen "No Fracking Way! A Study on the Spatial Patterns of and Changes in Perception and Distance from a Michigan Horizontal Hydraulic Fracturing Site", (Dr. Lisa DeChano-Cook, 2015) Anne Santa Maria "Manaeing Disperse, (Dr. David Lemberg ,2014)

MINNESOTA

UNIVERSITY OF MINNESOTA, TWIN CITIES

PhDs:

Chang, Catherine "Variegated Geographies of Ecological Urbanization: China's Eco-Cities in Global Context." (Leitner, Sheppard 2015)

DeGraves, Jeff "Electricity, Marginalization, and Empowerment: For Whom? And Who Decides? Evaluating Participatory Mapping in Río Negro, Honduras." (Harvey 2015)

Kindervater, Katherine "Lethal Surveillance: Drones and the Geo-History of Modern War." (Sheppard, Gidwani 2015)

Mahayni, Basil "Crisis in Jordan's Water Sector? Understanding the Dynamics of Institutional and Political Constraints in Water Management and Corporatization Reforms." (Samatar 2015)

Masters (Arts):

Appleton, Sarah "Mountain Hemlock (Tsuga mertensiana [Bong.] Carr.) Growth and Cool-Season Precipitation in Crater Lake National Park, Oregon." (St. George, 2015)

Getzoff, Joseph Plan B papers (Vinay 2014)

Mohabir, Maleenia Plan B Papers (Kayzar 2014)

Waters, Hillary Plan B papers (Leitner 2015)

Masters (Science):

Masters (Geographic Information Science):

Anderson, Christopher "Remote Sensing Lab GeoPortal Web Application." (Kne, 2015)

Brink, Christopher "Solar Suitability Analysis Project." (Kne, 2015)

Dally, Jason "Minnesota Sinkhole Discovery Using LiDAR." (Knight, 2015)

Jeyakumar, Shoumith "GIS-Based Accident Prediction Modeling for Blackspot Identification." (S. McMaster, 2015)

Kaebisch, Tyler "Big Wood Travel Management GPS/GIS Inventory Study." (S. McMaster, 2014)

Krumel, Thomas "Federal Programs in Conflict: Does Ethanol Plant Location Cause Early Exits in the Conservation Resource Program?" (Manson, 2015)

Long, Meredith Taylor "Mapping eBird: Visualizing Data Coverage in Citizen Science." (Kne, 2015)

Luo, Yuanyuan "Minnesota Solar Suitability Project and Its App User Interface Design." (Kne, 2014)

Martin, Christopher "Big Solar Maps From Big Data." (Lindberg, 2014)

Mattke, Ryan "Teaching an Old Map New Tricks--How Paper Maps and Mashups Can Evolve." (S. McMaster, 2015)

Miszczyk, Agata "Using GIS in Indian Country: Exploring the Feasibility of Conservation Reserve Program Enrollment." (S. McMaster, 2015)

Mueller, Joseph "Mapping Somali Pirate Attack Frequency, 2011-2013." (S. McMaster, 2015)

Munsch, Andrew "Minnesota's Public LiDAR Data: Issues Revealed by a Statewide Solar Suitability Analysis." (Kne, 2014)

Orness, Joshua "Land Use Change in Champlin, Minnesota, 1991-2013." (S. McMaster, 2015)

Purdham, Kathryn "Using ArcGIS Online to Support Planning and Economic Development in St. Paul, Minnesota." (Kne, 2015)

Reicks, Andrew "GIS and You: Introducing High School Students to GIS and Web Mapping." (S. McMaster, 2015)

Stinebaugh, Kathryn "The Terra Populus Project: Creating GIS Boundary Data for International Spatiotemporal Demographic and Environmental Research." (Manson, 2015)

Walz, Andrew "Big Solar Maps for Big Data." (Kne, 2015)

Wikstrom, Kyle "An Analysis of 15 Years of Arson and Incendiary Wildfire Occurrences in Karlstad, Minnesota." (Lindberg, 2015)

MISSOURI

NORTHWEST MISSOURI STATE UNIVERSITY

Masters (Science):

Burk, Daniel "A Fossil Locality Predictive Model for the Early Cretaceous Cedar Mountain Formation, Utah, USA." (Yi-Hwa Wu, 2014)

Craun, Kari "A Comparison of Volunteered Geographic Information (VGI) Collected in Rural Areas to VGI Collected in Urban and Suburban Areas of the United States." (Ming-Chih Hung, 2014)

Falconer, Edwin "Identification of Salt Cedar Locations with High Resolution Satellite Imagery in Tularosa Basin, New Mexico." (Ming-Chih Hung, 2015)

Fulcher, Brandon "Photo-Voltaic Energy System Siting Efficiency in Boone County, Missouri." (Yanfen Le, 2014)

Gallagher, Kyle "An Automated Approach for Calculating Environment Impacts of Transmission Line Construction Using Python." (Yanfen Le, 2014)

Miller, Robert "A GIS Model Identifying High-Risk Areas for Drug Crimes within Burlington, Iowa." (Patricia Drews, 2014)

Peacock, Rex "Accuracy Assessment of Supervised and Unsupervised Classification Using Landsat Imagery of Little Rock, Arkansas." (Ming-Chih Hung, 2014)

Shoemaker, Charles "Habitat Suitability Model for Pacific Fisher in a Portion of the Shasta-Trinity National Forest, California." (Yanfen Le, 2014)

Treese, Lonnie "Correlating Habitat Quality to Dock Frequency: A Measure of Human Impact on Glacial Lakes." (Patricia Drews and Aaron Johnson, 2015)

Wen, Michael "Exploring Spatial Analysis Capabilities in Google Maps Mashup Using Google Fusion Tables: A Case Study in Land Lease Data Retrieval." (Yanfen Le, 2014)

MONTANA

UNIVERSITY OF MONTANA

Masters (Arts):

Klaczynski, William. "On the Map, But Off the Grid: Perceptions of Authenticity in Polebridge, Montana" (Kamp, 2015)

Myers, Andrew. "Remaking Nature in Montana: Topophilic Considerations of Wolves and Wolf Trapping" (Shively, 2015)

Masters (Science):

Albov, Sophia. "(RE) Localizing Finland's Foodshed: Grassroots Movements in Food Distribution and Urban Agriculture" (Halvorson, 2015)

Pacheco, Alma. "The Habitat of European Brown Bears in Northern Spain: Mapping Habitat Fragmentation and Potential Connectivity" (Shively, 2015)

Pichacz Jr., Alexander. "Grassroots Planning: An Actor-Network Study of Surfing Waves in Missoula, Montana" (von Reichert, 2015)

Lippus, Amy. "The History and Evolution of North American Ski Resort Map Style and Design" (McManigal, 2015)

Master of Interdisciplinary Studies (MIS)

Snyder-Manetti, Frederick. "Human Consequences of Climate Change, Climate Refugees: An Exploratory Essay" (Gritzner, 2015)

NEBRASKA

UNIVERSITY OF NEBRASKA, LINCOLN

PhDs:

Kalibo, Humphrey "Simple, Novel Approaches to Investigating Biophysical Characteristics of Individual Mid-Latitude Deciduous Trees." (Rundquist, 2016)

Masters (Arts):

Bruihler, Jacob "Dating Late Quaternary Alluvial Fills in the Platte River Valley Using Optically Stimulated Luminescence Dating." (Hanson, 2016).

UNIVERSITY OF NEBRASKA, OMAHA

Masters (Arts):

Shrader, Rachel "Analysis of Methods for Flood Damage Estimates Used in Assessing Mitigation Efforts" (James Hayes, 2015)

NEW JERSEY

RUTGERS UNIVERSITY

PhDs:

Drake, Luke "The dynamics of an expanding community economy: Community garden networks and clusters in New Jersey" (St. Martin, 2015)

Greenwood, Deborah "Understanding Agricultural Transformations: The Urbanization and Feminization of Agriculture in the United States" (Leichenko, Rudel, 2015)

Mioduszewski, John "Attribution of snow melt onset and its linkages with variability in the Arctic cryosphere." (Robinson, 2015)

Sarmiento, Eric "Entangled Territories: The Local Food Movement and Urban Redevelopment in Oklahoma City." (St. Martin, 2014)

Scott, Deborah "Co-Producing Soft Law and Uncertain Knowledge: "New and Emerging Issues" at the Convention on Biological Diversity."(Schroeder, 2015)

Setyowati, Abidah "Governing Forest Carbon: the Political Ecology of Reducing Emissions from Deforestation and Forest Degradation (REDD+) in Aceh, Indonesia" (Schroeder, 2014)

Siebert, Asher "Assessing the Viability of Index Insurance as an Adaptation Tool in a Changing Climate Context: Case Study in the West African Sahel." (Robinson, 2015)

Tung, Irene "Financializing urban governance: cities, capital markets and property tax liens" (Lake, 2014)

Vancura, Peter "Assembling 'itinerant factory' towns: Processes, practices, and experiences of shale energy develop-ment in Pennsylvania's Susquehanna core."(Leichenko, 2015)

Zager, Irene "Analyzing the Relationship Between Forest Fragmentation And Post-Hurricane Damage and Recovery: The Case of Hurricane Dean in the Calakmul-Sian Ka'an Biological Corridor, Yucatán, Mexico"(Schneider, 2014)

NEW YORK

CITY UNIVERSITY OF NEW YORK, LEHMAN COLLEGE

PhDs:

Patrick, Lesley. "Health Exposure, Socio-Economic Vulnerability, and Infrastructure at Risk to Current and Projected Coastal Flooding in New York City" (Juliana Maantay, May, 2015)

Masters (Science):

Burgos, Katherine; Chen, Li; Egharevba , Edosasere; Lugo, Eva; MacFarlane, Kristen; Perez, Rosa; Roy, Bamesh; Sarkissian, Cristina; Scarlett, Keri-Dean; Smith, Alexander; Sullivan, Michael; Thrastarson, Ragnar; Zaino, Amelia

NORTH CAROLINA

EAST CAROLINA UNIVERSITY

Masters (Arts):

Armstrong, Dickey L. Thesis "Influence of Climatic Oscillations on Indian Ocean Tropical Cyclone Energy." (Scott Curtis, 2014)

Lawson, Christopher Thesis "Town-Gown Relations in Downtown Revitalization: Small City, Rural Region." (Jennifer Brewer, 2014)

Lussenden, Holly Thesis "Geographic Differences in Emergency Management Decision-Making: A Case Study of Severe Weather in the Midwest." (Burrell Montz, 2014)

Oyer, Zachary Thesis "Water Infrastructure Vulnerability to Coastal Flood Hazards: A Space-Place Analysis of Manteo, New Bern, and Plymouth, North Carolina." (Tom Allen, 2014)

Reavis, Kathryn Thesis "Assessment of Debris-Flow Hazards, North Mountain, Phoenix, AZ."(Thad Wasklewicz, 2014)

Roman-Rivera, Mayra Thesis "Spatial and Temporal Evaluation of Dune, Beach and Nearshore Bar Interactions Cape Cod, MA." (Paul Gares, 2014)

VanderJeugdt, Brian Thesis "Transportation Aspects of Smart Growth in the Research Triangle Region (NC): Current Conditions and Future Prospects." (Jerry Weitz, 2014)

Wickham, Elliot Thesis "Urban Water Availability and Potential Future Stressors: A Case Study of Raleigh-Durham, North Carolina." (Burrell Montz, 2014)

Zarzar, Christopher Thesis "A Precipitation Organization Climatology For North Carolina: Development And GIS-Based Analysis" (Tom Rickenbach)

UNIVERSITY OF NORTH CAROLINA, CHARLOTTE

PhDs:

Bengle, Tara, "Learning and Understanding Empowerment Planning: An Emergent Model that Builds Community Capacity to Affect Neighborhood Planning Outcomes." (Janni Sorensen, 2015)

Currie, Melissa, " Assessing Community Resilience at the Neighborhood Level in New Construction Starter- Homes in Charlotte, North Carolina." (Janni Sorensen, 2015)

Meng, Xuchu "Harry", "Environmental Impacts of Rapid Urbanization: Non-Point Source Pollution in Lingang New City, Shanghai." (Wei-Ning Xiang, 2015)

Tiller, Kara, "Spatial Patterns of Landside Trade Impedance in Containerized South American Exports." (Jean-Claude Thill, 2015)

Masters (Arts):

Angel, Griffin, "Web Visualization of Urban Environments in 3D for Green Building Education." (Jean-Claude Thill, 2015)

Bates, Jennifer, "The Influence of Road Characteristics on the Likelihood Of Barred Owl (STRIX VARIA) Vehicle Collisions in Charlotte, N.C." (Sara Gagné, 2014)

Brawn, Kelly, **"**Interpolating Geographic Data in Colombia Using Cokriging" (Eric Delmelle, 2015)

Davis, Allen, "Evaluating Postindustrial Urban Waterfront Redevelopment in Downtown Wilmington's Northern Riverfront District." (Janni Sorensen, 2014)

Ling, Chenjun, "A Typology of Neighborhood Socioeconomic Trajectories: A Self- Organizing Map and 3D K-Means Approach. " (Elizabeth Delmelle, 2015)

Manak Melissa, "Inclusion of people with Disability in the Process of Planning within the Community. Target Population: Deaf and Hard of Hearing." (Tyrel Moore, 2014)

Marsh, Derek, " An Evaluation of Travel Impedance UncertaintyAcross Online Road Network Data Providers." (Eric Delmelle, 2014)

Morgan Hamer, "The Geography of Artists in Charlotte." (Bill Graves, 2015)

Owens, Cache**,** "Cultivating Community: The Role of Black Farmers in Community Life." (Janni Sorensen, 2015)

Weller, Tara, "Mapping Neighborhood Susceptibility to Obesity in Charlotte, N.C." (Tyrel Moore, 2014)

Zager, Kathryn, "Individual and Neighborhood Influences on Asthma Quality of Life in Charlotte, N.C." (Eric Delmelle, 2014)

Masters (Science):

Aquino, Kimberly, "Continuing a Chronosequence on the Catawba River: Insights into America's 'Fifth Most Endangered River.'" (Missy Eppes, 2014)

Barland, John, "Changes to Effective Discharge for Material Transport in a Southeastern Piedmont Suburbanizing Watershed." (Craig Allan, 2014)

Corder, Heath, "The Relationships between Meteorological Features and Wind Turbine Icing Events." (Manda Adams, 2015)

DiBari, Sofia, "Evaluating Foraminifera as a Tool for Recreating Historical Landscapes and Verifying Cartographic Accuracy at FortFisher, North Carolina." (Scott Hippensteel, 2015)

Gilbert, Daniel, "Response of the Great Plains Nocturnal Low-Level Jet (NLLJ) to Wind Energy as Simulated in WRF." (Matthew Eastin, 2014)

Henderson Sara, "Recovery of Macroinvertebrate Communities Following Flood Disturbance in Urban Restored Streams, Mecklenburg County, North Carolina (Sara Gagné, 2015)

Kayser, Brandt, "Drivers of Post-Glacial Alluvial Fan Aggradation and Incision, Conejos River Valley, Colorado." (Missy Eppes, 2015)

Kotash, Alisa "Petrography and Geochemistry of High-Silica East Pacific Rise Glasses: Implications for Melt Production and Transport from 8o37'N to 15o50'N. (John Bender, 2014)

Kwahmie, Aaron, "Origin of Killian's Cove on the Catawba River near Charlotte, North Carolina." (John Diemer and Andy Bobyarchick, 2014)

Small, Aiken, "Response of Foraminifera to a Concentrated Brine Solution Discharged from a Reverse Osmosis Water Treatment Plant in Currituck County, N.C." (Scott Hippensteel, 2015)

Stimac, Brandy, "Structure and Evolution of Convective Cells in the Near-Shore Outer Rainbands of Hurricane Rita (2005)." (Matt Eastin, 2015)

Turner, Erin, "Stream Restoration and Floodplain Connectivity Influences Soil Characteristics in Urban Floodplains of the North Carolina, Piedmont." (Missy Eppes, 2015)

Welsh, Molly, "Quantification of In-Stream and Riparian Denitrification Potential and Environmental Drivers of Denitrification Following Agricultural Stream Restoration in the Piedmont Region of North Carolina." (Sara McMillan, 2014)

Winesett, Thomas "Cloud-to-Ground Lightening Estimates Derived from DMSP SSM/I and NLDN." (Brian Magi, 2015)

UNIVERSITY OF NORTH CAROLINA, GREENSBORO

PhDs:

Alford, Jennifer B. "Land-Use and water Quality in the Ca[e Fear River Basin: Spatial-Temporal relationships"

McCarthy, Michael "Megapolitan Areas and the Creative Class: How the Creative Class is Distributed Within Megapolitan Areas and its Effect on the Megapolitan Economy"

Masters (Arts):

Earliwine, Jason "Planning our Furture: My Internship with the Ciry of Greensboro"

Levi, Anna "The Geography of Air Passengers and Employment Patterns by US Core Urban Area Following the Great Recession: 2009-2012"

Sinykin, Alexander "Urban Vegetation and the Environmental Health of Sixteen Global Cities."

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

Masters (Arts):

LaPoint, Derrick "NEEDS ASSESSMENT OF A NEIGHBORS HELPING NEIGHBORS PROGRAM IN THE NEAR SOUTHSIDE NEIGHBORHOOD IN GRAND FORKS, ND" (Hansen, 2015)

Pimentel, Lisa "BUILT LANDSCAPE DEVELOPMENT IN THE RIVERSIDE NEIGHBORHOOD OF GRAND FORKS, ND, 1870 TO 2015" (Munski, 2015)

Wiosna, David "CHANGING BIKE MODE SHARE BETWEEN TIME PERIODS FOR SUFFOLK COUNTY, MA" (Niedzielski, 2015)

Masters (Science):

Ranapathi Archchige, Dasuni "MAPPING FLASH FLOOD POTENTIAL USING GIS AND FLASH FLOOD POTENTIAL INDEX (FFPI) IN TURTLE RIVER AND FOREST RIVER WATERSHEDS IN NORTH DAKOTA" (Vandeberg, 2015)

Burkett, Lawrence "BLIZZARDS IN THE UPPER MIDWEST, 1980-2013" (Atkinson, 2015)

OHIO

KENT STATE

PhDs:

Mike Allen- An Evaluation of Seasonality through Six Delineation Methods: A Comparison of Mortality Responses and the Relationship with Anomalous Temperature Events

Brad Austin- Perspectives of Weather and Sensitivities to Heat: Social Media Applications for Cultural Climatology

Thomas Ballinger- A Synoptic Climatological Assessment of the Relationship between Arctic Sea Ice Variability and Climate Anomalies over North America

Catherine Cartwright-Jones- The Geographies of the Black Henna Meme Organism and the Epidemic of Para-Phenylenediamine Sensitization

Weronika Kusek- The Construction and Development of Diasporic Networks by Recent Polish Migrants to London

Marius Paulikas- Potential Tornado Vulnerability Variance over a 24-hour Cycle for an Urban Metropolitan Region

David Widner- Bridging the Gap Between Traditional and Mainstream Society: Developing an Environmental Education and Stream Health Monitoring Plan to Promote the Improvement of the Sugar Creek Watershed and the Preservation of Swartzentruber Amish Culture

Masters (Science):

Corrine Coakley- Activity Space in a Terminal Classic Maya Household, Xeunkal, Yucatan, Mexico

Gordon Cromley- Using Digital and Historical Gazetteers to Geocode French Airborne Operations During the French Indochina War

Christabel Devadoss- Expressions of Tamil Identity: A Fluid Framework of Sound and Visuals

Sam Henkin- From Camps to Closets: Geography of Oppression

Bryce Kastelein- Vulnerability to Tropical Cyclone Related Mortalities on Hispaniola

Glen Stubbs- Remembering a Workplace Disaster: Different Landscapes-Different Narratives?

Rachel Will- A Critical Meta-Analysis of Community Water Management Outcomes in Peru: Identifying Causes of Scarcity and the effects of Adaptation

MIAMI UNIVERSITY OF OHIO

Masters (Arts):

Adusei, Kwame "Land Cover Change in a Savanna Environment. A Case Study of Bawku Municipal" (Mary Henry, 12/2014)

Pearlman, Daniel "Patterns & Processes of Land Use/Land Cover Change, 1975-2011, at Mt. Kasigau, Kenya" (John Maingi, 12/2014)

Schindehutte, Genevi "Remembering is Resistance: In Physical and Virtual Places of Downtown Cairo" (Bruce D'Arcus, 8/2015)

Shrestha, Rupak "Seasonal Migration and Circular Turmois: A Geographic Narrative of Brick Factory Migrant Workers in the Kathmandu Valley, Nepal" (Stan Toops, 8/2015)

OHIO STATE UNIVERSITY

PhDs:

Barnes, Jessica "Aspirational Economies of Self and City: The Values and Governances of Independent Crafters in Columbus, Ohio" (Ettlinger, Nancy 2014)

Chen, Peter "Bringing time into measures of food access: place vs. people" O'Kelly, Morton 2014)

Crane, Nicholas "Between Repression and Heroism: Young People's Politics in Mexico City after 1968" (Coleman, Mat 2014)

Evenson, Grey "A process-comprehensive simulation –optimization framework for watershed scale wetland restoration planning" (Xiao, Ningchuan 2014)

Fernandez, Alfonso "Waning and Waxing in Mountain Glaciers in South American: A Modeling Approach Over Multiple Spatial and Temporal Scales" (Mark, Bryan 2014)

LaFrenierre, Jeff "Assessing the Hydrologic Implications of Glacier Recession and the Potential for Water Resources Vulnerability at Vocan Chimborazo, Ecuador" (Mark, Bryan 2014)

Law, Justine "Sustainable and Equitable Energy? The Diverse Economies of Wood Energy in Vermont and the Upper Peninsula of Michigan" (McSweeney, Kendra 2014)

Roy, Anurupa "The Political Economy of the New Urban Development in India" (Cox, Kevin 2014)

Zhu, Xiaolin "Generating High Quality Landsat Time Series and its Applications in Forest Studies Advisor" (Liu, Desheng 2014)

Bose, Sayoni "The Messy Politics of Land Acquisition in West Bengal" (Mansfield, Becky 2015)

Masters (Arts):

Wehmann, Adam "A Spatial-Temporal Contextual Kernel Method for Generating High-quality Land-Cover Time Series" (Liu, Desheng 2014)

Rawson, Ariel "Earth Jurisprudence: Making Nature a Subject through Law" (Mansfield, Becky 2015)

Sadoff, Natasha "Hyper-Development, Waste, and Uneven Urban Spaces in Panama City" (McSweeney, Kendra 2015)

Masters (Science):

Patrick, Nathan "Evaluating near surface lapse rates over complex terrain using an embedded micrologger sensor network in Great Basin National Park" (Mark, Bryan 2014)

Sinclair, Colin "Glacial and Groundwater Contribution to Dry-Season Discharge and Bofedales in Tuni, Cordillera Real (Bolivia), and Pastoruri, Cordillera Blanca (Peru)." (Mark, Bryan 2014)

Wille, Jonathan "Analysis of the AMPS-Polar WRF Boundary Layer at the Alexander Tall Tower! Site on the Ross Ice Sheet" (Bromwich, David 2015)

OHIO UNIVERSITY

Masters (Arts):

Doria, Ashley "Exploring the Existence of Women's Emotional Agency in Climate Change Livelihood Adaption Strategies: A Case-Study of Maasai Women in Northern Tanzania." (Dr. Elizabeth "Edna" Wangui, 2015)

Prusa, Jillian "Refurbishing the Rust Belt: Vacant Land Reuse in Baltimore, Maryland and Cleveland, Ohio." (Dr. Geoffrey Buckley, 2014)

Master's (Science):

Klein, Sabrina "Spatial Relationships of Sacred and Secular Spaces of the Hopewell and Adena People, Muskingum River Valley, Ohio." (Dr. Dorothy Sack, 2015)

Wehrmann, Zachary "An Analysis of Planform Changes of the Upper Hocking River, Southeastern Ohio, 1939-2013." (Dr. Dorothy Sack, 2015)

Non-Thesis:

Banas, Rebekah (Dr. Geoffrey Buckley, 2015)

Kuenzli, Jessica (Dr. James Lein, 2014)

Panaccione, Maria (Dr. Risa Whitson, 2015)

UNIVERSITY OF CINCINNATI

PhDs:

Wu, Qiusheng "Hydrological and Ecological Analysis of Topographic Structure and Wetland Landscape", (Hongxing Liu, 2015)

Carr, Christopher "Research to Inform the Management of Protected Natural Areas", (Nicholas P. Dunning, 2014)

Masters (Arts):

Xu, Min "A Markov Random Field Approach to Improving Classification of Remotely Sensed Imagery by Incorporating Spatial and Temporal Contexts", (Hongxing Liu, 2015)

Zhan, Shengan "Spatio-temporal analysis of gyres in oriented lakes on the Arctic Coastal Plain of Northern Alaska based on remotely sensed images", (Richard A. Beck, 2015)

UNIVERSITY OF TOLEDO

PhDs:

Eloff, Jeffrey J. "Evaluating efficiency of transportation infrastructure: effects and implications for the spatial economy" (Dr. Oleg Smirnov, 2014).

Nilsson, Isabelle "The Influence of Competition on Retail Firm Location: Theory and Measurement" (Dr. Oleg Smirnov, 2014).

Wang, Qifeng " Evaluating the performance of the freight transportation system of the Great Lakes Region: an intermodal approach to routing and forecasting" (Dr. Peter Lindquist, 2014)

Masters (Arts):

Cochran, Nancy Cochran "Detection of Urban Heat Islands in the Great Lakes Region with GLOBE Student Surface Temperature Measurements" (advisor Kevin Czajkowski, 2014)

Johansen, Richard "Alex" "An Automated Approach of Tile Drain Detection and Extraction Utilizing High Resolution Aerial Imagery and Object-Based Image Analysis" (advisor Kevin Czajkowski, 2015)

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

PhDs:

Siewe, Siewe "Deforestation: Impact on Carbon Stocks, Biodiversity and the Effects of Conservation Policies on the People and Forests of the Korup National Park (KNP) in Cameroon." (Jacqueline Vadjunec, 2015)

Ericson, Steven "The Impact of an Urban University and its Neighborhood: A Case Study of Georgia State University and Downtown Atlanta." (Jon Comer, 2014)

Flynn, William "Geographic Perspectives on Contemporary Smooth Jazz." (Allen Finchum, 2014)

Masters (Science):

Barrett, Clay "Monitoring Eastern Oklahoma Lake Water Quality Using Landsat." (Amy Frazier, 2015)

Ovando, Gustavo "Geographic Assessment of Urban Quality of Life Using Socioeconomic and Environmental Factors Across Mexico City." (Amy Frazier, 2015)

Sebesta, Jennifer "Think Local, Buy Local, Be Local: Defining the Local in Oklahoma's Alternative Food Network." (Alyson Greiner, 2015)

Van Ness, William "Riding the Bus: A Study of the Accessibility of the OSU-Stillwater Community Transit." (Hongbo Yu, 2015)

Wenger, Kathryn "Land Change and Vulnerability to Drought: Impact and Growth of Center Pivot Irrigation in Union County, NM and Cimarron County, OK." (Jacqueline Vadjunec, 2015)

UNIVERSITY OF OKLAHOMA

PhDs:

Yan, Dong "Investigating the impacts of anthropogenic and climatic changes on the steppe ecosystem in China's Loess Plateau and the mixed-grass prairie region in southwest Oklahoma, USA." (de Beurs, Kirsten, 2014)

Masters (Arts):

Pavlowsky, Caroline "Water management in the southern High Plains of Texas: an institutional analysis of water governance." (Mark Meo, 2014)

Blanchard, Paulette "Our Squirrels will have Elephant Ears: Indigenous Perspectives on Climate Change in the South Central United States." (Offen, Karl, 2015)

Huycke, Matthew "Scripting a Neoliberal Oklahoma City: Urban Morphology, Gentrification, and the Role of Sentiment." (Smith, Laurel, 2015)

Powell, Hannah "An Analysis of the 1870's General Land Office Records; the Distribution of the Black-Tailed Prairie Dog and Vegetation Patterns of Old Greer County." (Hoagland, Bruce, 2014)

Tziganuk, Ashlee "Sustainability in Higher Education: the Implications of Core Versus Integrated Approaches." (Gliedt, Travis, 2015)

Masters (Science):

Lyakhov, Alex "Scaling Sustainability Value in Sustainability Purpose Organizations: A Non-Profit and Business Comparison" & "Collaborative Value Creation through Environmental Non-Profit and Renewable Energy Business Partnerships." (Gliedt, Travis, 2015)

OREGON

OREGON STATE UNIVERSITY

PhDs:

Chaffin, Brian "Reallocating Resources, Rebuilding Community: The Klamath Basin Agreements and the Emergence of Adaptive Governance." (Gosneli, 2014)

Petersen-Perlman, Jacob "Mechanisms of Cooperation for States' Construction of Large-Scale Water Infrastructure Projects in Transboundary River Basins." (Woll 2014)

Pak, Mariya "International River Basin Management in the Face of Changer Syr Darya Basin Case Study." (Wolf, 2014)

Bennetl. Drew "Investing Upstream: A Social-Ecological Systems Perspective on Water Utility Investments in Ecosystem Services." (Gosnell, 2015)

Gleason, Kelly "Forest Fire Effects on Radiative and Turbulent Fluxes over Snow: Implications for Snow Hydrology." (Nolin, 2015)

Moore, Kathleen "Optimizing Reservoir Operations to Adapt to 2'1st Century Expectations of Climate and Social Change in the Willamette River Basin, Oregon." (Jones, 2015)

Savric, Bojan "Optimizing Map Projection Selection for Wodd Maps and Web Maps." (Jenny, 2015)

Ogren, Kimberly 'Water Governance Process Assessment: Evaluating the Link between Decision Making Processes and Outcomes in the Columbia River Basin." (Woll 2015)

Watson. Julie "Beyond Cooperation: Environmental Justice in Transboundary Water Management." (Wolf, 2015)

Masters (Science):

Marston, Brooke "Improving the Representation of Large Landforms in Analytical Relief Shading." (Jenny, 2014)

Romeo, Lucy "Spatial Distribution and lhe Probability of Occurrence of Beluga Whales (Delphinapterus Leucas) in Alaskan Arclic." (Jones, 2014)

Kleinknecht, George "Introducing and Validating a High-Throughput Bud Break Sensor." (Lintz, 2014)

Eynard, James "Evaluating the Effectiveness of iIlluminated and Shadowed Contour Lines-" (Jenny, 20'15)

Preppernau, Charles "3D vs Conventional Volcanic Hazard Maps: A User Study at [4ount Hood." (Jenny, 2015)

Colon Almodovar, Yamilette "Social and Ecological Outcomes Associated with Stewardship Forestry in the Siuslaw Watershed." (Gosnell, 2015)

Zavareh, Sahar "Detroit Water Crisis News Media Discourse Analysis." (Wolf, 20'15)

Amold, Nicholas "Automation and Evaluation of Graduated Dot Maps." (Jenny, 2015)

Darbyshire, Jane "Natural-Color Maps via Automated Coloring of texas Bivariate Grid Data." (Jenny, 2015)

Helderop, Edward "Diversity, Generalization, and Specialization in Plant-Pollinator Networks of Montane Meadows, Western Cascades, Oregon." (Jones, 2015)

PORTLAND STATE UNIVERSITY

Masters (Arts):

Keifer, Jarrett "Agriculture Classidication of Multi-Temporal MODIS Imagery in Northwest Argentina Using Kansas Crop Phenologies" (Duh, 2014)

Pryzbylinski, Stephen "The Right to Dream: Assessing the Spatiality of a Homeless Rest Site in Portland, Oregon" (Works, 2015)

Masters (Science):

Bross, Lesley "Using panchromatic sharprning with image differencing to monitor vegetation change at a former dam site." (Duh, 2015)

Hennings, Ray "Stream Temperature Managment in the Tualatin Watershed" (Bulman, 2014)

Jones, Allison "Industrial Decline in and Industrial Sanctuary: Portland's Central Eastside Industrial District, 1981 – 2014." (Works, 2014)

OREGON STATE UNIVERSITY

PhDs:

Dietrich, James "Applications of Structure-from-Motion Photogrammetry to Fluvial Geomorphology." (Dr. Mark Fonstad, 2014)

Foster, Douglas "Militarism in Tajikistan: Realities of Post-Soviet Nation Building." (Dr. Alexander B. Murphy, 2015)

Masters (Arts):

Molden, Olivia "Traditional Infrastructure, Modern Flows: Cultural Politics of Modernization in the Kathmandu Valley." (Dr. Katie Meehan, 2015)

Masters (Science):

Burkybile, Amanda (2015)

Duffin, Jenna "Effects of Engineered Log Jams on Channel Morphology, Middle Fork of the John Day River, Oregon." (Dr. Patricia McDowell, 2015)

Fogelstrom, Gretchen (2015)

Goodwin, Iain (2015)

Kenbeek, Seth "Understanding the Roles of Network Structure and Distance in the Process of Natural Resource Policy Implementation." (Dr. Christopher Bone, 2015)

Langston, Trevor "Spatial Patterns of Sediment Transport in the Upper Willamette River, Oregon." (Dr. Mark Fonstad, 2015)

Morales-Ramirez, Carlos (2015)

Morris, Emily "Identifying Spatial Data Needs for Chagas Disease Mitigation." (Dr. Christopher Bone, 2015)

Niedzwiecki, Mark (2015)

Tierney, Lauren "An Agent-Based Model of Wildlife Migratory Patterns in Human-Disturbed Landscapes." (Dr. Christopher Bone, 2015)

Young, Alanna "Analysis of Spatiotemporal Variations in Human- and Lightning-caused Wildfires from the Western United States (1992-2011)." (Dr. Patrick Bartlein, 2014)

PENNSLYVANIA

PENNSYLVANIA STATE UNIVERSITY

PhDs:

Cuomo, Dana M. "Policing Citizenship: The State Response to Intimate Partner Violence in Centre County, Pennsylvania" (Wright, Dowler)

Retchless, David P. "Understanding Local Sea Level Rise Risk Perceptions and the Power of Maps to Change Them: The Effects of Distance, Detail, and Doubt" (Yarnal)

Shinn, Jamie E. "Governing EnvironmentalVariability: Flooding and Natural Resource Access in the Okavango Delta, Botswana" (King)

Savelyev, Alexander "Empirical Investigation of Typographic Overprinting Displays and their, Legibility in the Context of Information and Geographic Visualization, of Text" (MacEachren)

Massaro, Vanessa A. "Drug Dealing as Livelihood Practice: Space, Social Relations, and Everyday Life in Urban Illegal Economies" (Wright)

Quinn, Sterling D. "A Geovisual Analysis of Social Influence in OpenStreetMap Construction (MacEachren)"

Masters (Science):

Elbeleidy, Hallah A. "Lifting Dead Soil Off Our Bodies: Reclaiming Public Space in Gezi Park Through Resistance"(Tschakert)

Shaffner, Paul W. "Land Cover, Livelihood, & Community Landscape Perceptions Around Ndarakwai Ranch, Tanzania" (King)

Sparks, Kevin A. (Klippel)

Swedberg, Brian W. (Peuquet)

Dzwonczyk, Elizabeth "Nonmedical Exemptions to Vaccination in Illinois: A Multi-Scalar Analysis" (Holdsworth)

Dzwonczyk, John P. "Water Use in Shale Energy Extraction: A Watershed-Level Analysis of Water Availability in Marcellus Shale Extraction" (Calvert)

Hirt, Claire C. "Stream Condition and Nutrient Runoff: Linking the Soil and Water Assessment Tool (SWAT) Model with Empirical Ecological Measures in an Agricultural Watershed in Central Pennsylvania" (Brooks)

Machado, Mario R. (Tschakert)

TEMPLE UNIVERSITY

PhDs:

Raddatz, Liv "Between Continuity and Change: Exploring Polish Migrants' Experiences in the Labor Market of Berlin, Germany." (Chakravorty, 2015).

Schwebel, Michael "Climate Change Adaption and Policy in Pacific Small Island States: Safe Havens or Adrift at Sea?" (Mason, 2015)

Masters (Arts):

Castle, Charlotte (Gilbert, 2015)

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

PhDs:

Ash, Kevin "Mobile Home Resident Perspectives on Preparedness, Protective Action, and Evacuation for Tornado Hazards" (Cutter, 2015)

Koylu, Caglar "Understanding Geo-Social Network Patterns: Computation, Visualization, And Usability" (Guo, 2014)

Lackstrom, Kirsten "Institutional Adaptation and Drought Management in the Carolinas" (Dow, 2015)
Liu, Shufan "Remote Sensing Satellite Image Acquisition Planning, Framework, Methods, and Application." (Hodgson, 2014)
Schumann, Ronald "The Meaning of Place Recovery on the Mississippi Gulf Coast" (Cutter, 2015)
Wang, Hu "Pattern Extraction from Spatial Data: Statistical and Modeling Approaches" (Guo, 2014)

Masters (Arts):
Ayoob, Amelia "Transnationalism, Faith-based Communities, and Layers of Arab Christian Identity in Greenville, South Carolina" (Nagel, 2014)
Davis, Janae "A Tale of Two Landscapes: Examining Alienation & Non-Visitation Among Local African-American Fishers at Congaree National Park" (Dow, 2015)

Masters (Science):
Ertell, Katherine "Dynamic Mapping of Tree-Sway Frequency and the Turbulent Co-Spectral Gap" (Hiscox, 2015)
Nguyen, Khai "Institutional Resilience along the Mississippi Gulf Coast in the Context of Pre- and Post-Hurricane Katrina" (Cutter, 2015)
Reeves, Rachel "Economic Losses and Extreme Tornado Events (Cutter, 2015)
Skeeter, Wesley "Using Footprint Modeling to Determine Emissions Factors for Ammonium Fluxes From a Sugarcane Field in St. Gabriel, LA (Hiscox, 2015)

TENNESSEE

UNIVERSITY OF TENNESEE, KNOXVILLE

PhDs:
McKnight, Julie "Linking Soil Moisture and Carbon-Cycle Processes in Two Understudied Terrestrial Ecosystems: Ecuadorian Paramo Grasslands and Constructed Agricultural Wetlands." (Harden, 2015)
Rose, Amy "Data Fusion Methods for Improved Demographic Resolution Distribution Datasets." (Nagle, 2015)

Masters (Science):
Alsamadisi, Adam "Human and Black Bear Interactions in Buncombe County, North Carolina, 1993-2013" (Foresta, 2015)
Basford, Scott "Internation Student Migration for Development: An Institutional Approach to the Norwegian Quota Scheme." (van Riemsdijk, 2014)
Bowling, Ruth "The Space that Art Makes: The Antagonist Art Movement and Artis Agency." (van Riemsdijk, 2014)
Collins, Savannah "Detecting Tropical Cyclone Signals in Tree Rings of Longleaf Pine (Pinus palustris Mill), Valdosta, Georgia, U.S.A." (Grissino-Mayer, 2014)
Elrod, Brenna "Place and Crowdfunding: An Examination of Two Distressed Cities." (Sharma, 2014)
Lewis-Gonzales, Sarah "Accuracy of Supervised Classification of Cropland in Sub-Saharan Africa." (Nagle, 2015)
Izquierdo, Jose " Belgain Identity Politics: At Crossroad Between Nationalism and Regionalism." (van Riemsdijk, 2014)
Jones Wayman, Sarah "Stand Dynamics of a Unique Pygmy Forest, El Malpais National Monument, New Mexico, U.S.A." (Grissino-Mayer, 2015)
Li, Yan "Assessing Survivability of the Beijing Subway System." (Kim, 2014)
Liu, Yuan "A Case Study of Colloquial Place Names through Geotagged Social Media Data." (Shaw, 2015)
Love, Ephraim "Time Series Analysis of MODIS NOVI Data with Cloudy Pixels: Frequency-Domain and SIZer Analyses of Vegetation Change in Western Rwanda." (Nagle, 2015)
Moehl, Jessica "Comparing Models of Demographic Subpopulations." (Stewart, 2014)
Olsen, Catherine "A Decade of Lessons Learned: The Local Implementation of Stormwater Programs in Tennessee." (Harden, 2015)
Potter, Rebecca "Establishing a Chronology of Late Quaternary Glacial Advances in the Cordillera de Talamanca, Costa Rica" (Li, 2015)
Roberts, Joseph "Four Dimensional Approach to Center City Transformation: A Case Study of Knoxville, TN: 1884-1950." (Nagle, 2015)
Rochner, Maegen "Dendrogeomorphic Analysis of Debris Slides on Mt.Le Conte, Great Smoky Mountains National Park, Tennessee, U.S.A." (Grissino-Mayer, 2014)
Russell, Kevin "Visualizing the Historical Landscape of Montserrat: Social Justice Through Community Mapping in a Post-Colonial Environment." (Inwood, 2015)
Schneider, Elizabeth "Climate Drivers of Wildfire Activity in the Magdalena Mountains of New Mexico, U.S.A." (Grissino-Mayer, 2014)
Sims, Kelly "Integrating Social Media in the Development of a Special Event Population Dynamics Model." (Bhaduri, 2014)
Tran, Vi "An Analysis of the Suspended Sediment Rating Curve Parameters in the Upper Mississippi Rive Basin at the Monthly and Annual Levels." (Harden, 2014)
Zhong, Yicong "Spatiotemporal Analysis of Taxi Availability and Pick-ups: a case study of Suzhou, China" (Shaw, 2015)

TEXAS

TEXAS A&M UNIVERSITY

PhDs:
Labosier, Christopher "Pyrogeography of the Southeast USA: Exploring the Relationships between Wildfire and Climate." (Steven Quiring, 2014)
Naito, Adam "Characterizing and Modeling Arctic Shrub Expansion on the North Slope of Alaska, USA." (David Cairns, 2014)
Metoyer, Sandra "Geospatial Technology to Enhance Spatial Thinking and Facilitate Processes of Reasoning." (Robert Bednarz, 2014)
Swann, Christy "Wind-Blown Sand: Threshold of Motion." (Chris Houser, 2014)
Santos, Anna N. "Determinants of Livelihood Strategies in a Marine Extractive Reserve." (Christian Brannstrom, 2014)

Masters (Science):
Dicce, Ryan P. "Constructing Pillars of Islamic Banking: Creating and Sustaining Specialized Financial Centers in Bahrain and the United States." (Michael Ewers, 2015)
Gass, Ellen "Simulating Historic Landscape Patterns of Fire in the Southern Appalachian Mountains: Implications for Fire History and Management." (Charles Lafon, 2014)
Li, Zhongxia "Region-based Dynamic Weighting Probabilistic Geocoding." (Dan Goldberg, 2014)
Mohon, Leslye "Validating Annual Growth Bands of Deep-Sea Black Corals and Calculating Ocean Reservoir Ages from the Gulf of Mexico and Southeastern United States." (Brendan Roark, 2014)
Rentschlar, Elizabeth "Quantifying Vegetation Recovery on Santa Rosa Island." (Chris Houser, 2014)
Ruiz, Michelle "Assessment of the Potential Effect of Climate Change on Hurricane Risk and Vulnerability in Florida." (Steven Quiring, 2014)

Samuel, Nicholas "Toward a Phenomenology of Revitalized Downtowns: A Case Study of Downtown Bryan, Texas." (Jonathan Smith, 2014)

Wang, Yue "The Effect of Teleconnections on North Atlantic Tropical Cyclone Precipitation." (Quiring, 2015)

TEXAS STATE UNIVERSITY

PhDs:

Cano Amaya, Laura "A Geospatial Analysis of the Coupled System Approach to Measuring Household Resilience to Food Insecurities: The Case of the 2009 Earthquake in Costa Rica Dissertation Proposal." (Muniz, 2014)

Curtis, Mary "Acceptance and Integration of Geospatial Technology as an Education Tool in Secondary Social Studies Classes." (Boehm, 2015)

Hann, Deborah "Embedded Geographies? Discourses of National Identity and Geography in Children's Literature." (Hagelman, 2015)

Nox, Rain "Wildfire mitigation behavior on single family residential properties near Balcones Canyonlands Preserve wildlands in Austin, Texas." (Hiner, 2015)

Parr, David "The Production of Volunteered Geographic Information: A Study of OpenStreetMap in the United States." (Lu, 2015)

Patton, Matthew "Examining Teachers' Attitudes and Beliefs Towards Messages Calling for New Approaches to Classroom Teaching of Geography: Indicators of Willingness to Accept and Adopt a New Paradigm." (Blanchard, 2014)

Seal, Kathleen "Value, Meaning and Therapeutic Notions of the Appalachian Trail." (Hagelman, 2014)

Wiseman, Susan "Comparison of Soundscapes of Southern White Rhinoceri (Ceratotherium simum simum) at an Urban Zoo and a Wildlife Park." (Tiefenbacher, 2014)

Masters (Science):

Cavin, Rachel "Beaver Dam Dimensions and Distribution in Northeastern New Mexico." (Butler, 2015)

Scanes, Dana "Utilizing Geographical Epidemiology to Determine Areas of Risk for Coccidioidomycosis in Texas." (Dixon, 2015)

Other: Master of Applied Geography - M.A.Geo:

Adams, Jordan "Examining Hydrodynamics of the Endangered Texas wild-rice to Inform Restoration." (Meitzen, 2015)

Alexatos, Andreina "Integrated Stormwater Management Design for an Environmentally- Sensitive Area." (Blanchard, 2014)

Dailey, Lucas "Using GIS-based Logistic Regression for Landslide Susceptibility Analysis in Western Washington State." (Fuhrmann, 2015)

Gore, Sherri "Social Vulnerability and Mitigation Efforts: A Case Study of the Onion Creek Flooding in Austin, Texas on October 31, 2013." (Blue, 2014)

Jackson, Joseph (Brad) "An Assessment of Land Use Zoning and Local Clustering of High-Tech Firms in Austin, Texas." (Blue, 2015)

Johnson, Lauren "The Role of Tropical Cyclone Landfall Azimuth in Tornado Production." (Dixon, 2014)

Lancaster, James "Reassessing Suggested Temperatures for Residential Buildings." (Blanchard, 2015)

Liu, Yuanda "Mapping Regional Income and Income Inequality Distribution: A Case Study of the Interstate 10 Area." (Zhan, 2014)

McLean, Nicholas "Interaction Trends and the Creation of a New State: Analysis of Cooperation and Iraqi Kurdistan." (Fuhrmann, 2015)

Reissig, Henry "The Relationship Between Gentrification and Crime in Austin, Texas from 2003 to 2013." (Weaver, 2015)

Rudin, Andrew "Vulnerability and Risk Mapping of the Barton Creek Segment of the Edwards Aquifer." (Dixon, 2014)

Wrenn, Elizabeth "Application of Flood Modeling in the Sink Creek Watershed for the 2013 Halloween Flood Event." (Meitzen, 2014)

UNIVERSITY OF NORTH TEXAS

Masters (Science):

Dombrosky, Jonathan "The Descriptive Paleontology and Applied Ichthyoarchaeology of the Ponsipa Fauna" (Steve Wolverton, 2015)

Dunn, Ingrid "Structure, Composition, and Regeneration of Cross Timbers Forest Fragments in Different Land Use Contexts" (Alexandra Ponette, 2015)

Ellyson, Laura "Resource Intensification of Small Game Use at Goodman Point, Southwestern Colorado" (Steve Wolverton, 2014)

Helton, Erin "Archaeological Site Vulnerability Modeling for Cultural Resource Management Based on Historic Aerial Photogrammetry and LiDAR" (Steve Wolverton, 2015)

Jones, Jesse "Effects of Non Homogeneous Population Distribution on Smoothed Maps Produced using Kernel Density Estimation Methods" (Chetan Tiwari, 2014)

Lester, Katherine "Dismantling the Psychiatric Ghetto: Evaluating a Blended Clinic Approach to Supportive Housing in Houston, Texas" (Joseph Oppong, 2014)

McCollum, Levi "Gracias a la Nacionalizacion de los Hidrocarburos: A Critical Analysis of Bolivia's Transition to Compressed Natural Gas" (Matthew Fry, 2015)

Parker, Julie "Pastoral Livelihoods and Household Water Management in the Central Argentine Andes" (Matthew Fry, 2015)

Popejoy, Traci "Zooarchaeology and Biogeography of Freshwater Mussels in the Leon River during the Late Holocene" (Steve Wolverton, 2015)

Shrestha, Manjul "Exceedance Frequency Analysis of Urban Stormwater Quality and its Relation to Land Use Change, Denton, Texas" (Paul Hudak, 2015)

Strong, Patrick "Efficiency of Nitrate and Phosphorus Removal in a Working Rain Garden" (Paul Hudak, 2015)

Winstead, Christy "The Use of Faunal Remains for Identifying Shifts in Pit Structure Function in the Mesa Verde Region: A Case Study from Goodman Point" (Paul Hudak, 2015)

UNIVERSITY OF TEXAS AT AUSTIN

PhDs:

Aviles-Vasquez, Katia "Farming and Resistance: Survival Strategies of Smallholder Farmers in Puerto Rico" (Knapp, 2014)

Lemon, Robert "Taco Truck Urban Topographies and the Spatiality of Orderly Disorder" (Hoelscher, 2015)

Schwartz, Gregory "Payment for Environmental Services in Costa Rica's Osa Peninsula: A Feminist Political Ecology Perspective" (Knapp, 2015)

Masters (Arts):

Christiansen, Thomas "Explicitly Linking Field- and Satellite-Derived Measurements for Improved Vegetation Quantification and Disturbance Detection" (Crews, 2014)

UTAH

UNIVERSITY OF UTAH

PhDs:

Balzotti, Christopher Stephen, Exploring the Use of Fine Resolution Nested Ecological Niche Models to Identify Greater Sage-

Grouse (Centrocercus Urophasianus) Habitat and Connectivity Potential Across a Diverse Landscape. Philip Dennison, 2014

Baskin, Robert Leroy, Occurrence and Spatial Distribution of Microbial Bioherms in Great Salt Lake, Utah, George Hepner, 2014

Maezumi, Shira Yoshimi, Neotropical Climate, Vegetation, and Fire Histories on Local to Regional Scales. Mitchell Power, 2015

Meng, Ran, Study of two vegetation-related disturbances (beetle herbivory and wildfire) in the western United States using optical remote sensing. Philip Dennison, 2015

Miege, Clement, Recent Ice Sheet Snow Accumulation and Firn Storage of Meltwater Inferred by Ground and Airborne Radars. Richard Forster, 2015

Masters (Science):

Bares, Ryan Keith, The Application of Stable Carbon Isotopes as an Enhanced Method for Statistical Crossdating: A Case Study from Range Creek Canyon, Utah. Simon Brewer, 2014

Dudley, Kenneth Lynn, Mapping species across multiple dates of hyperspectral imagery using iterative endmember selection and multiple endmember spectral mixture analysis. Philip Dennison, 2014

Ritter, Benjamin, When and Where: Spatiotemporal Analysis of Dynamic Public Transit Accessibility Along the Wasatch Front. Steven Farber, 2014

Turney, Lovina Abbott, Holocene climate, vegetation, and fire linkages in the Uinta Mountains, Utah. Mitchell Power, 2014

Unger, Corey, Creating Spatial Data Infrastructure to Facilitate the Collection and Dissemination of Geospatial Data to Aid in Disaster Management. Thomas Cova, 2015

Xiao, Li, Spatial Representation in the Social Interaction Potential Metric: An Analysis of Scale and Parameter Sensitivity. Steven Farber, 2015

Conrad, Edward C., Using Species Distribution Models to Quantify Climate Change Impacts on the Rosy-Finch Superspecies: An Alpine Obligate. Simon Brewer, 2015

Hile, Ryan Patrick, Thinking Inside the Black Box: Enhancing the Social Vulnerability Index with an Artificial Neural Network. Thomas Cova, 2015

Other: Masters (GIS):

Duffy, Brendan Sean (2014)
Hall, Samuel Conrad (2015)
Olson, Curtis (2014)
Rentz, Erich M (2014)
Traver, Deborah Lorene (2014)
Vasquez Gomez, Emanuel Alejandro (2015)

VIRGINIA

GEORGE MASON UNIVERSITY

PhDs:

Barker, Alec "Understanding the Geographic Dynamics of Goal-Directed Social Behaviors" (Kevin Curtin, 2015)

Cotnoir, Amy "The Identification and Analysis of Polycentric state Models"(Anthony Stefanidis, 2014)

Li, Zhenlong "Building Model as a Service to Support Improving Climate Change Studies" (Chaowei Yang, 2015)

Lu, Xu "Mining Spatial Aspects of Corresponding Physical and Cyber Communities"(Anthony Stefanidis, 2014)

Mei, Xi "Capacitated Arc Routing Problems with Mobile Depots, Intermediate Facilities, and Transfer Time Restrictions: An application in Waste Collection" (Kevin Curtin, 2015)

Nicholas, Dennis Edward "Modeling the Geographic range of Rift Valley Fever in Africa, The Middle East and Europe: Impacts of Climate Change" (Paul Delamater, 2015)

Panteras, Georgios "Discernible Spatial Configurations in Built and Participatory Scenes" (Anthony Stefanidis, 2014)

Sun, Min "Handling Attribute Accuracy in Spatial Data Using a Heuristic Approach" (Davis Wong, 2014)

Tischler, Michael "Assessment and Optimization of a Multiple Reference Spatial Similarity Model" (Anthony Stefanidis, 2015)

Xia, Jizhe "Optimizing the GEOSS Clearinghouse with Spatiotemperal Patterns: (Chaowei Yang, 2015)

Masters (Geographic and Cartographic Sciences):

Bergmann, Sarah Comprehensive Exam (Timothy Leslie, 2015)

Cook, Chelsea Jane "A Comparison of Remote Sensing Change Detection Techniques to Determine the Method of Highest Accuracy for Discovering Deforestation in East African Montane Forests (Barry Haack, 2015)

Fayne, Jessica V. "Improving the NASA Develop Mekong River Flood Mapping Product in South East Asia (Sven Fuhrmann, 2015)

Gordon, Conor M. Comprehensive Exam (Kevin M. Curtin, 2015)

Holby, Thomas W. "Mapping Religious Beliefs in Sub-Saharan Africa through Twitter Content Analysis (Anthony Stefanidis, 2015)

Hovland, Erik "Green Roof Water Retention: Reduction of Storm Water Runoff in the District of Columbia" (Paul Houser, 2015)

Jefferson II, Laurence Howard, Comprehensive Exam (Matt Rice, 2015)

Keen, Joleen R. "Recreating a 1929 Aerial Survey of the Mayan Lowlands in ArcGIS to Identify the Real World Locations of Observations and Photographs" (Paul Houser, 2015)

Koch, Jonathan D. Comprehensive Exam (Matt Rice, 2015)

Kulbeth, David, Comprehensive Exam (Matt Rice, 2015)

LaMois, Peter Tripp, Comprehensive Exam (Barry Haack, 2015)

Larsen, Aubrey "Spatial Analysis of Kidnapping in North America" (Matt Rice, 2015)

Lyon, Susan, Comprehensive Exam (Timothy Leslie, 2014)

McDaniel, Emily H. "Landslide Occurrence Classification Tree Model for Western Washington Using Precipitation a Factor" (Paul Houser, 2015)

Menegus, Dominic, Comprehensive Exam (Matt Rice, 2015)

Parker, Stephanie M. "Assessing the Synchronization of Geographical Content Contributed by the General Public during Natural Disaster Events" (Anthony Stefanidis, 2015)

Resig, Michael R. "Cost and Time Efficient Method of 3D Reconstruction of Environments Using Structure from Motton Analysis on Aerial Photography" (Arie Croitoru, 2015)

Rogers, Robin E. "Slope Derivation from Elevation Datasets with Differing Resolutions for Visually and Mobility Impaired Pedestrian Routing" (Kevin Curtin, 2015)

Sparkman, Stephanie "Spatial Configuration of Storm Water Best Management Practices: Nutrient Removal Efficacy and Costs " (Paul Houser, 2015)

White, Blanka Lostakova, Comprehensive Exam (Kevin Curtin, 2015)

Wilson, Tabatha, Comprehensive Exam (Kevin Curtin, 2015)

Zand, David Edward, Comprehensive Exam (Timothy Leslie, 2015)

Masters (Geoinformatics and Geospatial Intelligence):

Bekisz, Michael James "Discovering the Value of Georeferenced Unstructured" (Matt Rice, 2015)

Cleveland, Geoffrey S. "Examining and Assessing Changing Shorelines and Shallow Seabed with Various LIDAR Applications" (Arie Croitoru, 2015)

Dolan, Sean Vincent "Spatial Analytics of NCAA Conference Realignment and the Residual Effects on Recruiting Geography" (matt Rice, 2015)

Glodava, Kevin Marc "Using Twitter Data for Predictive Analysis of Criminal Activity in Washington D.C" (Anthony Stefanidis, 2015)

Larson, Timothy R. "SCS-CN Hydrologic Modeling of the Great Dismal Swamp with HEC-HMS (Paul Houser, 2015)

Miller, Justin "Building Extraction from LIDAR Using Edge Detection (Arie Croitoru 2015)

Nies, Brandi L. "A Comparative Test of Traveling Salesman Solutions from GIS Software Packages (Kevin Curtin, 2015)

Parker, Stephanie M. "Assessing the Synchronization of Geographical Content Contributed by the General Public during Natural Disaster Events" (Anthony Stefanidis, 2015)

Resig, Michael R. "Cost and Time Efficient Method of 3D Reconstruction of Environments Using Structure from Motton Analysis on Aerial Photography" (Arie Croitoru, 2015)

Rogers, Robin E. "Slope Derivation from Elevation Datasets with Differing Resolutions for Visually and Mobility Impaired Pedestrian Routing" (Kevin Curtin, 2015)

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

Masters (Science):

Adolphson, Scott "Influence of Salwater Intrusion, Climate, and Population Changes on the Groundwater Supply of San Juan Island." (Gabriel, 2015)

Aymond, Ayla "A Zooarchaeological Analysis of the Monashka Bay Site (KOD-026) Kodiak Island, Alaska." (Lubinski, 2015)

Blair, Logan "The Economic Impacts of Forest Pathogens in Washington State: a Hedonic Approach." (Wassell/Sipic, 2015)

Brown, Genevieve "Using Particle Size Analysis to Separate the Deposition of a Bonebed and Artifact at the Wenas Creek Mammoth Site." (Lubinski, 2015)

Buchholz, Kathryn "Aligning Policy with Perception: Management of Whitewater Rafters within the Tieton River Corridor." (Cohen, 2014)

Drozdowski, Jarod "Mesoamerican Sacred Geography and Archaeological Landscapes: A Case Study in the Volcanic Highlands of Michoacan, Mexico." (Hackenberger, 2015)

Evans, Krista "The Middle of Nowhere? Managing Northern Rocky Mountain Ghost towns" (Kuhlken, 2014)

Ferry, Joy "Significance Evaluation of the Forgotten Creek Site (45PI0429)." (McCutcheon, 2014)

Garrison, Patrick "Organization of Technology at the Sanders Site (45KT315): Analysis of Formed Tools from the Yakima Uplands, WA." (Hackenberger, 2015)

Geroso, Ray "Population Structure and Growth Rages of Northern Pacific Rattlesnakes in the Methow Valley, Washington." (Beck/Hickey, 2014)

Giblin, Jessica "Identifying Critical Indicators of Trail Conditions in High-Use Recreational Areas of the Roslyn Urban Forest." (Pease/Lipton, 2015)

Harrison, Isa "Elk and Deer Hunters in Washington State: Affiliations and Ethical Behavior." (Wirth, 2015)

Jones, Sara "Evaluation of National Register of Historic Places Eligibility Determination at Yakima Training Center, Washington" (Hackenberger, 2014)

Kassa, Sonja "The Archaeology of Obsidian Occurrence in Stone Tool Manufacture and Use Along the Mid-Columbia River, Washington." (McCutcheon, 2014)

Killsnight, Adriann. "An Analysis of Swift Fox (Vulpes velox) Occupancy on the Northern Cheyenne Reservation, Montana." (Ernest, 2014)

Lewis, Patrick "Measuring the Cost and Performance of Lithic Industries at the Sunrise Ridge Borrow Pit Site (45PI408)". (McCutcheon, 2014)

Maquire, Conor "Understanding Vulnerability in Alaska Fishing Communities: A Validation Methodology for Rapid Assessment of Well-Being Indices." (Hackenberger, 2015)

Molohon, Patrick "Small Islands, Big Heart: Reproducing the Marquesas Islands Through the Body." (Pedersen, 2014)

Moose, Chris "Rediscovering an Upland Site: The Manastash Pines (45KT346) Kittitas County, Washington." (Lubinski, 2015)

Morse, Nate "Interpretation of Shell δ18O and δ13C from Two Hells Canyon Study Sites: A Methods Approach to Analysis." (Lubinski/Hackenberger, 2015)

Mowery, Kara "Renewing Spokane: A Study of Motivating Forces Behind Downtown Revitalization Projects." (Novak, 2015)

Nielsen, Kari (Spring). Recreational Trails and Geomorphic Hazards in Glacially Conditioned Basins: A Case Study of Many Glacier Valley, Glacier National Park, Montana. (Lillquist, 2014)

Oliver, Bethany "Cultural Resource Management Planning for the Sinlahekin Wildlife Area, WA." (Revels/Hackenberger, 2014)

Oosahwee-Voss, Sarah "My Family, My Identity: An Ethnohistorical Exploration of a Multiethnic Family." (Barlow, 2015)

Parks, Raychel "A Comparative Analysis of Natural and Human Made Rock Habitats for American Pikas (Ochotona princeps) along Interstate-90 in the Washington Cascade Range."(Ernest, 2014)

Porter, Laurie "Behavioral Response of Pacific Lamprey (Entosphenus tridentatus) to Predator Odors" (Wagner, 2015)

Sheldon, David "Determination of Site Functionality and Subsistence Patterns at the Bray Archaeological Site (45PI1276) in Edgewood, Washington." (Hackenberger, 2015)

Shoaf, Kelli. Perceptions of "Wilderness": An Examination of Native American Utilization of Traditional Plant Resources and Public Land Management. (Pedersen, 2014)

Stanley, Stacy "Alpine and Other Abandoned Towns along the Great Northern Railroad near Steven's Pass, Washington, 1890-1930. (Lubinski, 2014)

Trammell, Jeff "An Evaluation of the Yakama Fisheries Kelt Reconditioning Program." (James, 2014)

Walton, Lauren. "Building a History: Evaluations of CWU Campus Building to Determine Eligibility for the NR of Historic Places" (Herman, 2015)

Wachholder, Thomas "Applying Wetland Rating Systems to Assess Functions of Depressional Wetlands Created by a Mass Wasting Feature, Table Mountain, Washington." (Gabriel, 2015)

Waters, Tiffany "Washington's Fish Consumption Rate and Water Quality Standards: Fostering Allies to Keep Our Seafood Clean." (Pedersen, 2015)

Watson, Andrea "An Analysis of the Socioeconomic Impacts Resulting from the Ellsworth Creek Preserve in Pacific County, Washington" (Andrews, 2015).

Yost, Anna "GIS Modeling of Elk Habitat Suitability in the North Cascades of Washington State." (Cottrell/Hickey, 2014)

Zimmerman, Kathryn "Sustainability Policy's Inherent Dilemmas—Exemplified via Critical Examination of the Las Vegas Metropolitan Sustainability Campaign." (Barlow, 2014)

UNIVERSITY OF WASHINGTON

PhDs:

Burns, Ryan. "Digital Humanitarianism and the Geospatial Web: Emerging Modes of Mapping and the Transformation of Humanitarian Practices." (Elwood, 2015)

Chokkakula, Srinivas. "Politics of Interstate Water Disputes in India." (Sparke, 2015)
Derman, Brandon. "Making Climate Justice: Social Natures and Political Spaces of the Anthropocene." (Herbert, 2015)
Thanatemaneerat, Wilawan. "Geodesign for Water Quality Management." (Nyerges, 2015)

Masters (Arts):
Araya, Kidan. "Examining Claims of Food Justice in the Oxfam International's Agenda: A Case Study of the GROW Campaign." (Jarosz, 2015)
Garcia, Lila. "The Revolution Might Be Tweeted: Digital Social Media, Contentious Politics and the Wendy Davis Filibuster." (England, 2014)
Krueger, Meredith. "Care and Capitalist Crisis in Anglophone Digital landscapes: The Case of the Mompreneur." (Lawson, 2015)
Macfarlane, Key. "'Noisy Sphere': Sonic Geographies in the Era of Globalization." (Mitchell, 2015)
Wilson, Margaret. "Ebola Exceptionalism: On the Intersecting Political and Health Geographies of the 2014-2015 Epidemic." (Sparke, 2015)

WEST VIRGINIA

MARSHALL UNIVERSITY

Masters (Arts):
Click, Megan, 2015
Jiao, Jialun, 2015

Masters (Science):
Arcadipane, Britt "West Virginia's Low Percentage of Population With At Least A Four-Year College Education" (Hagan, 2014)
Kirby, Daniel "Effective Treatment Options for Acid Mine Drainage in the Coal Region of West Virginia" (Walz, 2014)
Shaffer, Christopher
Meadows, Lora "A Comprehensive Study of the Historical Blue Sulphur Hotel Resort Through Remote Sensing, PhotoCALVIgrammetry, and GIS" (Walz, 2015)
Cannoy, Delbert "Green Gold - A Cannibis Sativa L. Lucis Suitability Analysis for West Virginia" (Law, 2015)
Nelson, Aaron "Stable Money: An Evaluation of Political Stability and U.S. Bilateral Aid in Latin America" (Walz, 2015)

WEST VIRGINIA UNIVERSITY

PhDs:
Chen, Xiannian "Dimensions of the Use of VGI in Mass Crisis Events" (2015)
O'Keefe, Paul "Changing Vulnerabilities in a Changing Climate: Farming opportunity and constraint in Kilimanjaro Region, Tanzania" (2015)
Smith, Jennifer "Uneven Development of Peri-Urban Space in South Africa" (2015)

Masters (Arts):
Foster, Jessica "Acquiring a Taste for the Local: Examining Consumer-Producer Perspectives on Locally Grown Food at Farmers' Markets in North-Central West Virginia" (2015)
Kaufman, Andrew "Shedding Light on GIS: A 3D Immersive Approach to Urban Lightscape Integration into GIS" (2015)

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

PhDs:
Atkinson, Emily "Land use legacies in tropical dry forests: Linking above- and belowground dynamics" (Marin-Spiotta, 2015)
Gruley, Kristine "Geomorphic influences on soil development and soil organic matter dynamics in central Jackson County, WI" (Mason, 2015)
Kennedy, Timothy "Modeling the Multi-dimensional Factors of Parcelization and the Spatial Connection to Land-Use Change in Rural Wisconsin" (Burt/Veregin, 2014)
Yu, Yong "Beijing's Place-Names: From Cosmological Symbolism to Urban-Planner Practicality" (Ostergren, 2015)

Masters (Science):
Hamilton, Erin Lindsey Client-side versus server-side geoprocessing: Benchmarking the performance of web browsers processing geospatial data using common GIS operations (Burt, 2014)
Weisse, Mikaela Buffer Zones in the Peruvian Amazon bring conservation benefits despite ambiguous rules and uncertain authority (Naughton, 2015)
Knoppke-Wetzel, Vanessa How Technological Changes Aesthetically Defined Pre-1900s Maps: a Stylistic Look at Woodblock, Copperplate & Lithograph Print Maps (Roth, 2014)
Mead, Rashauna Expert Perspectives on the Design and Use of Learning Materials for Neocartographic Interfaces (Roth, 2014)
Souther, John David Investigating Successional Dynamics in Naturally-Regenerated Tropical Forests of Puerto Rico: Testing and Learning from a Chronosequence Approach (Marin-Spiotta, 2014)

UNIVERSITY OF WISCONSIN, MILWAUKEE

PhDs:
Culver, Gregg "Recommitting to the Car? The Politics of Multimodal Transportation in Wisconsin" (Linda McCarthy, 2014)
Huang, Wei "Spatial Dimensions of Tower Karst and Cockpit Karst: A Case Study of Guilin, China" (Mick Day 2014)
Park, Isaac "Impacts of Spatial, Environmental, and Compositional Differences on Community-Level Flowering Phenology" (Mark Schwartz 2014)

Masters (Arts):
Appel, Stephen, "Public Geospatial Data in Wisconsin: Information Access, Data Sharing, and the University" (Rina Ghose 2015)
Armstrong, Peter "Bicycle Planning and the Role of Sustainability in "Breaking the Driving Culture" (Linda McCarthy 2015)

WYOMING

UNIVERSITY OF WYOMING

Masters (Arts):
Bowler, Jonathan "Managing Recreation Resources: An Assessment of Recreation Opportunities in the Green River's Uinta Basin, Utah" (Gribb 2015)
Brussel, Thomas "Construction and application of a plant-trait dataset for determining relationships between demographic traits and fire variables using paleoenvironmental data" (Minckley, 2015)
Leonard, Christina "Evaluating effects of floodplain constriction along a high-energy gravel-bed river: Snake River, WY" (Legleiter, 2015)

Pearson, Joseph E. “Impact of early snowmelt on Denver water supply” (Shinker, 2015)

Stegman, Tobin “Stream restoration monitoring using structure-from-motion photogrammetry, Teton Creek, Idaho” (Legleiter, 2015)

CANADA

ALBERTA

UNIVERSITY OF CALGARY

PhD:

Bessette, Douglas "Decision Aiding for Coupled Climate Energy Strategies" (Joseph Arvai, June 2015)

Gill, Jagvijay Pratap Singh “Polarimetric C-band Microwave Scattering Properties of Snow Covered First-year Sea Ice" (John Yackel, June 2015)

Kenney, Lisa "Improving Decision-Making for Energy and Carbon Management: Descriptive and Prescriptive Insights" (Joseph Arvai, June 2015)

Kincaid, Adela "The Dimensionality of Human-Free Roaming Horse Interactions in Alberta " (Dianne Draper, June 2015)

Munir, Tariq Muhammad "Peatland Biogeochemistry and Plant Productivity Responses to Field Based Hydrological and Temperature Simulations of Climate Change" (Maria Strack, June 2015)

Rahman, Mir Mustafizur "Developing a semi/automated protocol to post-process large volume, High-resolution airborne thermal infrared (TIR) imagery for urban waste heat mapping" (Geoffrey Hay, November 2014)

Masters (Science):

Escobar Torio, Jeremy "The Roles of Information and Communication Technologies (ICTs) in Indigenous Political Participation and Representation: A Case Study of the 2008-2009 Peruvian Amazon Conflict" (Maria Strack, November 2014)

Puckett, Nicole Grace "Exploring youth engagement in environmental volunteering: Findings from a cross-case analysis " (Dianne Drape, June 2015)

Masters (Geographic Information Systems):

Bastakoti, Kalpana "Spatio-Temporal Visualization of Twitter Communication on REDD+ " (Conny Davidsen, June 2015)

Bumstead, Justin "Politics and the La Inseguridad – Assessing the relationship between Escalating Drug Violence and Party Support in the 2012 Mexican Presidential Election. " (Denise Brown, June 2015)

O'Toole, Natalie "Acute Cardiac Syndrome rates and GWR – Calgary, Alberta "(Stefania Bertazzon, November 2014)

Rasheva, Diliana " Web-based Editing Application for Crowdsourcing Geographic Information " (Darren Bender, June 2015)

Savio, Francis "An Automated Approach for Home Energy Efficiency Improvement: Exploratory Thermal Mapping Interpolation Toolkit (ETMIT) " (Geoffrey Hay, June 2015)

Yu, Yuanhua "Drought risk evaluation in the Great Plains and Gujarat" (Mryka Hall-Beyer, June 2015)

BRITISH COLOMBIA

SIMON FRASER UNIVERSITY

PhD:

Amram, Ofer “Spatial Epidemiology of Child and Youth Injury.” (Nadine Schuurman, 2015)

Hernandez, Gretchen “From Spaces of Marginalization to Places of Participation: Indigenous Articulations of the Social Economy in the Bolivian Highlands.” (Sean Markey, 2015)

Jjumba, Anthony “Towards Four-Dimensional Modeling of Geospatial Phenomena: An Integration of Voxel Automata and the Geo-Atom Theory.” (Suzana Dragicevic, 2015)

Kear, Mark “Governing Homo Subprimicus: Essays on the Financial Regulation of Poverty After the Subprime Crisis.” (Geoff Mann, 2015)

Temenos, Cristina “Differential Policy Mobilities: Transnational Advocacy and Harm Reduction Drug Policy.” (Eugene McCann, 2014)

Masters (Arts):

LeBaron, Emily “Re-Imagining the Geography of the Favelas: Pacification, Tourism, and Transformation in Complexo do Alemao, Rio de Janeiro.” (Geoff Mann, 2014)

Longhurst, Andrew “Policy Frontiers: City Regional Politics of Poverty and Drug Policy Mobility.” (Eugene McCann, 2015)

Whitmore, Rebecca “Canadian Informal Caregivers in Medical Tourism.” (Valorie Crooks, 2015)

Masters (Science):

Anderson, Taylor “Geographic automata systems approaches for simulating forest insect infestation: A case study of emerald ash borer.” (Suzana Dragicevic, 2015)

House, Kimberly “Bird and beetle assemblages in mountain pine beetle killed forests and those subsequently burned: Evidence for an effect of compound natural disturbances in British Columbia." (Meg Krawchuk, 2014)

Jorge, Marco “Longitudinal Subglacial Bedform Semi-Automated Mapping and Measurement.” (Tracy Brennand, 2015)

Lonergan, Christopher “Advancing Tsunami Risk Communication Through Geographic Visualization.” (Nick Hedley, 2014)

Montgomery, Bryn “Expanding and Comparing GIS-Based Multi-Criteria Decision Making Methods: A Soft Computing Logic for Agricultural Land Sustainability Evaluation.” (Suzana Dragicevic, 2015)

UNIVERSITY OF BRITISH COLOMBIA

PhD:

Barber, Lachlan "A relational geography of heritage in post-1997 Hong Kong." (D. Ley, 2014)

Bjorkman, Anne "Ecological and evolutionary consequences of experimental and natural warming in the high Arctic tundra." (G. Henry and M. Vellend, 2015)

Cienciala, Piotr "Hydrogeomorphic controls on spatial pattern of fish habitat in a mountain stream." (M. Hassan, 2015)

Crawford, Benjamin “Measurements of carbon dioxide fluxes and concentrations at multiple scales in Vancouver, Canada." (A. Christen, 2014)

Dyce, Matthew “A spatial history of Canada: archives, knowledge, and geography." (G. Wynn, 2014)

Krayenhoff, Eric Scott “A multi-layer urban canopy model for neighbourhoods with trees." (T. Oke and A. Christen, 2015)

Leach, Jason "Winter stream temperature in the rain-on-snow zone of the Pacific Northwest." (R.D. Moore, 2015)

Leong, Doris "A model analysis of water resource availability in response to climate change and oil sands operations in the Athabasca River Basin." (S. Donner, 2014)

Lim, Kean Fan "State rescaling, experimental reforms and institutional continuity: the shifting spatial logics of socioeconomic regulation in post-1949 China." (T. Barnes and J. Peck, 2014)

Luzi, David "Sediment transport and morphological response of a semi-alluvial channel: insights from a Froude scaled laboratory model." (B. Eaton, 2014)

Pearce, Tyler Rebecca "An ethnography of possibility: finding and forging 'the otherwise' in two Winnipeg-based alternative economic development communities." (T. Barnes, 2015)

Quastel, Noah "Transforming commodification: sustainability and the regulation of production and consumption networks." (J. Peck, 2014)

Stewart, Howard "Five easy pieces on the Strait of Georgia - reflections on the historical geography of the North Salish Sea." (G. Wynn, 2014)

Wall, Jacob "Geospatial analysis of African elephant movement (Loxodonta africana and L. cyclotis)." (Klinkenberg, 2015)

Yates, Julian "Re-animating Andean worlds: kamayoq, the politics of 'culturally appropriate' knowledge extension, and ethnodevelopment in the Peruvian Andes." (K. Bakker, 2015)

Masters (Arts):

Howard, Thomas "From risky business to common sense: sustainability, hegemony, and urban policy in Calgary." (J. Peck, 2015)

Jones, Craig "Income polarization and the emergence of a low income SkyTrain corridor in Metro Vancouver, 1971-2006." (D. Ley, 2014)

Mahoney, Adam "A conjunctural analysis of Canadian official development assistance." (T. Barnes, 2015)

Przedpelska, Sarah "Fitting in and standing out: immigrant youth negotiating new citizenships in multicultural Canada." (D. Hiebert, 2015)

Pysklywec, John Alexander "Rainbow flags and body bags: violence, terror, pride and everyday resistance in Northeastern Mexico." (J. Sundberg, 2014)

Masters (Science):

Bird, Lawrence "Hydrology and thermal regime of a proglacial lake fed by a calving glacier." (D. Moore, 2014)

Buglass, Salome "A study on the recovery of Tobago's coral reefs following the 2010 mass bleaching event." (S. Donner, 2015)

Chernos, Matthew "The Relative Importance of Calving and Surface Ablation at a Lacustrine Terminating Glacier: A Detailed Assessment of Ice Loss at Bridge Glacier, British Columbia." (M. Koppes, 2014)

Klinghoffer, Ilana "Spatial and temporal patterns of sediment mobility and storage in a small mountain stream." (M. Hassan, 2015)

MacKenzie, Lucy "Modelling channel morphodynamics: the effects of large wood and bed grain size distribution" (B. Eaton, 2014)

Reid, David "Reach-scale contributions of road-surface sediment to the Honna River, Haida Gwaii, B.C." (M. Hassan and W. Floyd, 2014)

West, David "Modelling the thermal regime of a regulated coastal British Columbia river and assessing the potential of warming mitigation strategies." (R.D. Moore, 2015)

UNIVERSITY OF VICTORIA

PhDs:

Baker, Masuruli "Costs and Benefits of Nature-based Tourism to Conservation and Communities in the Serengeti Ecosystem" (Dearden, 2015)

Bowes, Matthew "Influences of Social Norms, Habit and Ambivalence on Park Visitors' Dog Leash Compliance" (Keller, 2015)

Downie, Bruce "Conservation Influences on Livelihood Decision-making: A Case Study from Saadani National Park, Tanzania" (Dearden, 2015)

Lobo, Felipe "Spatial and Temporal Analysis of Water Siltation Caused by Artisanal Small-scale Gold Mining in the Tapajos Water Basin, Brazilian Amazon: An Optics and Remote Sensing Approach" (Niemann, 2015)

Slaunwhite, Amanda "Alcohol-related Harm and Primary Health Care in British Columbia, Canada" (Hayes/Macdonald, 2015)

Masters (Arts):

Breiddal, Rosanna "When Consultation Becomes a Checkbox, What's the Fracking Point? Colonial Constraints on Social Learning Processes in Northeast BC and the Fort Nelson First Nation's New Approach to Resource Governance" (Moore, 2015)

Laurin, Evelyne "Loans as Disservice: Cambodian Women and Predatory Lending by Unregistered Microfinance Institutions" (Springer, 2015)

Overduin, Natasha "Exploring the Role for Private Actors in Water Governance" (Moore, 2015)

Masters (Science):

Breiddal, Rosanna "When Consultation Becomes a Checkbox, What's the Fracking Point? Colonial Constraints on Social Learning Processes in Northeast BC and the Fort Nelson First Nation's New Approach to Resource Governance" (Moore, 2015)

Laurin, Evelyne "Loans as Disservice: Cambodian Women and Predatory Lending by Unregistered Microfinance Institutions" (Springer, 2015)

Overduin, Natasha "Exploring the Role for Private Actors in Water Governance" (Moore, 2015)

ONTARIO

CARLETON UNIVERSITY

PhD:

Katz-Rosene, Ryan "Turbotrain, Zerotrain, Ecotrain: The Ecological Political Economies of High-Speed Rail in Canada" (Dalby, Klodawsky, Fall 2015)

Roy-Leveillee, Pascale "Permafrost and Thermokarst Lakes in the Old Crow Flats, Northern Yukon, Canada (Burn, Fall 2014)

Stefanik, Justin "Squaring Palliser's Triangle: The Normalization of Nature in the Canadian Dry-land Prairies 1860-1940" (Ballamingie, Dalby, Spring 2015)

Masters (Arts):

Bouffard, Jean-Sebastien "A Comparison of Conceptual Rainfall-Runoff Modelling Structures and Approaches for Hydrologic Prediction in Ungauged Northern Peatlands Basins" (Richardson, Fall 2014)

Lariviere, Peter "Metis Identity in Canada" (Smith, Winter 2015)

Williams, Andrew "Governmentality and Mining: Analyzing the Environmental Impact Assessment for the Mary River Mine, Nunavut, Canada" (Brklacich, Cameron, Winter 2015)

Masters (Science):

Davis, Emma "The Influence of Vegetation and Climate on Wildfires in Jasper, Alberta, over the last 3500 years" (Vermaire, Pisaric, Fall 2014)

Quann, Sarah "Assessing the Potential of Maximum Tree-Ring Density in Developing Divergence-Free White Spruce Chronologies, Northwest Territories, Canada" (Humphreys, Pisaric, Fall 2014)

Plewes, Rachel "Development and Application of a Landscape-Based Lake Typology for the Muskoka River Watershed, Ontario, Canada" (Richardson, Fall 2014)

Gaanderse, Adrian "Geomorphic Origin of a Lithalsa in the Great Slave Lowlands, Northwest Territories, Canada" (Burn, Wolfe, Winter 2015)

Kirby, Patrick "Monte Carlo-based Analysis of the Effect of Positional and Thematic Uncertainties in Thematic Maps on Biodiversity Model Coefficients" (Mitchell, Winter 2015)

Richer-McCallum, Miriam "Discriminating Different Ice Types with Synthetic Aperture Radar (SAR) Satellite Imagery Along the Northern Coast of Ellesmere Island, Nunavut, Canada (Mueller, Copland, Winter 2015)

Delaney, Stephanie "Impacts of Retrogressive Permafrost Thaw Slumps on Aquatic Systems in the Peel Plateau, Northwest Territories, Canada" (Richardson, Pisaric, Spring 2015)

Salisbury, Laura "Evaluating the Effectiveness of Three Dimensional Geovisualization Tools in Communicating Climate Change Impacts, A PEI Case Study" (Mitchell, Taylor, Spring 2015)

MCMASTER UNVIERSITY

PhDs:

Adams, Matthew "Advancing the Use of Mobile Monitoring Data for Air Pollution Modelling." (Pavlos Kanaroglou, 2015)

Bennett, Scott "Safer Walking Routes to School: Applied and Methodological Geographies of Child Pedestrian Injury." (Niko Yiannakoulias, 2015)

Collins, Shawn "Sedimentation Processes in Anchialine Caves of the Yucatan Peninsula - The Role of Karst Topography and Vegetation." (Ed Reinhardt, 2015)

Drudge, Christopher "Microbe-Contaminant Linkages in the Upper Waters of Lakes." (Lesley Warren, 2015)

Higgins, Christopher "A Value Planning Framework for Predicting and Recapturing the Value of Rapid Transit Infrastructure." (Pavlos Kanaroglou, 2015)

Huang, Suo "Modelling Nitrogen Controls on Terrestrial Ecosystems." (Altaf Arain, 2014)

Kornelsen, Kurt "Downscaling Satellite Microwave Observations to Facilitate High Resolution Hydrological Modelling." (Paulin Coulibaly, 2015)

Lukenbach, Maxwell "Hydrogeological and Ecohydrological Controls on Peatland Resilience to Wildfire." (Michael Waddington, 2015)

McLeod, Heather "Investigating Gas Phase Processes in Natural and Hydrocarbon-contaminated Groundwater." (James Smith, 2015)

Masters (Arts):

Leyenaar, Matthew "Using Geo-spatial Analysis for Effective Community Paramedicine." (Niko Yiannakoulias, 2015)

Parsons, Jeremy "The Making of the Meadowlands: How Ancaster's Fields Became Hamilton's Suburbs" (Richard Harris, 2015)

Windhorst, Eric "Post-Secondary Student Mental Health and Nature Affilation" (Allison Williams, 2015)

Masters (Science):

Belan, Mark "Spatial Distribution and Preservation of Carbon Isotope Biosignatures in Freshwater Microbialite Carbonate." (Greg Slater, 2015)

Biagi, Kelly "Understanding Flow Pathways, Major Chemical Transformations and Water Sources Using Hydrochemical Data in a Constructed Fen, Fort McMurray, Alberta." (Sean Carey, 2015)

Inozemtsev, Illya "Land-based Vector Magnetic Survey of a BIF-hosted Iron Ore Deposit, Mary River, Baffin Island, Nunavut." (Joe Boyce, 2015)

Nicholls, Erin "Multi-Year Water Balance Assessment of a Newly Constructed Wetland, Fort McMurray, Alberta." (Sean Carey, 2015)

Pan, Xiaojun "Large-Scale Root Zone Soil Moisture Estimation Using Data-Driven Methods." (Paulin Coulibaly, 2015)

Rodrigues, Kathleen "OSL Dating Of A Costal Swift Creek Occupation at Harrison Ring, Bay County, Florida." (Jack Rink, 2015)

Skubel, Rachel "The Water Use Dynamics of Temperate Pine Plantation Forests and Their Response to Thinking and Climate Variability." (Altaf Arain, 2015)

Spencer, Christopher "Assessment of the Clumped Isotope Composition of Calcite for Paleothermometery." (Sang-Tae Kim, 2015)

Thorne, Chelsea "A Comparison of Soil Nitrogen Availability for a Previously Mined Reclaimed Wetland and Two Natural Wetlands in Fort McMurray, Alberta." (Sean Carey, 2015)

Trapp, Andrew "Hydrostratigraphy of the Paris Moraine in the Guelph Area, Ontario, Canada." (James Smith, 2015)

Vautour, Shannon "A New Model for the Quebecia Terrane in the Grenville Province as a Composite Arc Belt: SM-ND Evidence." (Alan Dickin, 2015)

QUEEN'S UNIVERSITY

PhDs:

Brual, Janette"Later-life Filipino Immigrants in the Greater Toronto Area: A Case Study of Health Status and Utilization of Services" (Rosenberg, 2014)

Massey, Jennifer "Legitimating Displacement: Exploring the Blame-game of Gentrification Discourse" (Godlewska, Wilson 2014)

Van Ewijk, Karin Yvonne "Estimating Forest Structure from LiDAR and High Spatial Resolution Imagery for the Prediction of Succession and Species Composition" (Treitz, Scott, 2015)

Wasiuta, Vivian

"Sulfur and reactive nitrogen deposited in the alpine of the Southern Canadian Rockies: quantification and assessment of the main factors influencing deposition" (Lafreniere, Norman, 2014)

Masters (Arts):

Harhaj, Natalia "They come here because it's a place of refuge": Residential Care Facilities with Cultural Affiliations" (Rosenberg, 2014)

Prabhu, Alyson"Accessing English Language Education in Urban Immigrant Gateways: The Case of Ottawa" (Donald, 2015)

Masters (Science)*:*

Holloway, Jean "Hydroclimatic and Landscape Controls Over Mudboil Formation in the Canadian High Arctic" (Lamoureux, 2014)

Louiseize, Nicole "Impact of Active Layer Detachments on Seasonal Dynamics of Nitrogen Export in High Arctic Watersheds" (Lafreniere, 2014)

Rosu, Andrei "A New Approach for Geocoding Postal Code-Based Data in Health Related Studies" (Chen, 2014)

Masters (Planning):

Adeola, Damilare "The Effect of Provincial and Municipal Sustainability Policies on Urban Development Patterns in Markham Ontario" (Collins, 2014)

Amayu, Ermias "New Uses for Old Churches: An Examination of the Effects of Planning Regulations on the Adaptive Reuse of Church Buildings" (Agarwal, 2014)

Anderson, Graham "Identifying Factors for Success in Planning and Designing Supportive Housing in Ottawa, Ontario" (Viswanathan, 2014)

Beaty, Angus "Evaluating the Walkability of Transit Oriented Development in Vancouver's Northeast Sector" (Collins, 2014)

Berry, Josh "A Greener Future for Farmers in the Niagara Fruitbelt: Evaluating the Practicality of Using Agriculture Easements in Ontario's Greenbelt" (Collins, 2014)

Bohan, Stephen "Identifying and Analyzing Natural Hazard Based Appeals at the Ontario Municipal Board" (Meligrana, 2015)

Bolduc, Jacob "Second to None: Secondary Suites and Affordable Housing for Seniors in Kingston, Ontario" (Streich, 2015)

Chabot, Bailey "Planning for Pot: Incorporating the Production of Medical Marihuana into the Zoning Bylaw of the District of West Kelowna" (Gordon, 2014)

Grabowski, Arthur "The Evolution of Waterfront Public Spaces: A comparative assessment of public use on Toronto's Harbour Square Park and York Quay" (Gordon, 2014)

Herczeg, Patricia "Reweaving the Urban Fabric: Examining Greyfield Redevelopment in the Greater Toronto Area" (Agarwal, 2015)

Holthof, Benjamin "Kingston Inner Harbour: Cultural Heritage Landscape Pilot Study" (Gordon, 2015)

Hutton, Shwaan "From Old Mould to Functional Gold: The Adaptive Reuse of Surplus Heritage Schools in Hamilton, Ontario" (Andrew, 2015)

Javidi Parsijani, Farhad "An Investigation about the Environmental Sustainability of the Darband Recreational Area in Tehran" (Meligrana, 2015)

Jolicoeur, Alix "Poverty in post-war suburbs: are households doing better or worse?" (Skaburskis, 2014)

Joseph, Kecil "What Could Possibly Go Wrong? Examining the Consequences of the City of Toronto Public Square By-laws on Diversity in Yonge-Dundas Square" (Viswanathan, 2014)

Kheir Moghadam, Golsa "Perception of Safety at Transit Stops: A Case Study of Kingston, ON" (Agarwal, 2015)

McDonell, Heather "Collaboration between Public Health and Planning Professionals towards the Development of a Healthy Community Policy Framework: A Case Study of the Regional Municipality of Peel" (Collins, 2014)

McLeod, Fraser "Finding Common Ground: Building Equitable Planning Futures with First Nations in Ontario, Canada" (Viswanathan, 2014)

Meere, Mattson "A Planner's Online Toolbox: An Evaluation of Online Tools for Enhancing Public Engagement in the Planning Process" (Agarwal, 2014)

Nadeau, Jeff "Planning Near-University Neighbourhoods: A case study of Kingston, ON and Ithaca, NY" (Gordon, 2015)

Nielsen, Sarah "Get Moving School: Comparing Influences on the Potential for Active School Travel in Four School Neighbourhoods in a Large Urban Centre in Western Canada" (Collins, 2014)

Poulton, Ryan "Guiding Future Suburban Development through Public Policy: A Comparative Case Study of Two Arterial Mainstreets in Ottawa, Ontario" (Gordon, 2014)

Rac, Michael "Is Everyone in the Pool? Lessons on Access and Equity from Toronto's Regent Park Aquatic Centre" (Viswanathan, 2014)

Redpath, Nicholas "Revitalizing the Vancouver Viaducts: Recommendations for Implementing Parks and Public Space Beneath the Georgia and Dunsmuir Street Viaducts in Vancouver, British Columbia" (Agarwal, 2014)

Summers, Meghan "Planning for green infrastructure in municipal right of ways. A comparative case study analysis" (Viswanathan, 2014)

Tan, Rebecca"The Ethics, Feasibility, Opportunities and Challenges of Adopting a Facility Accessibility Design Standard (FADS) for Queen's University" (Viswanathan, 2014)

Taylor, James "Downtown Suburbia? Assessing the Development of a Suburban Mixed-Use Centre" (Skaburskis, 2014)

Tchisler, German "Effects of Power Centre Retail on Inner-City Areas: The Case of the Centre on Barton in Hamilton, Ontario" (Andrew, 2014)

Whitehead, Russell "The Evolution of Vancouver's Laneways: Assessing the Pedestrian Environment of Three Vancouver Laneways within Regions Zoned to Permit Laneway Housing" (Agarwal, 2014)

Willes, Frances, "A study to examine the boundary expansions of Kingston from a legal and land perspective, with emphasis on the 1998 Amalgamation"(Meligrana, 2015)

UNIVERSITY OF GUELPH

PhD:

Adams, Justin, "Active and passive microwave remote sensing of soil moisture: Validation and scaling over an agricultural region." (A. Berg, 2015)

Bhamjee, Rashaad, "Low-flow hydrology in Canadian headwater areas." (J. Lindsay, 2014)

Oginskyy, Anatoliy, "Integrated Hydrologic-Economic Optimization Modeling For Watershed Evaluation Of Agricultural Bmps And Policies." (W. Yang, 2014)

Manns, Hida, "Soil organic carbon in soil water content variability; detection and application in agricultural fields." (A. Berg, 2015)

Sneyd, Lauren, "Zoning in on Food Riots, Wild Food and Food Security in Urban Cameroon." (E. Fraser, 2014)

Masters (Arts):

Armitage, Thomas, "The Impact and Potential Roles of Community Food Centres on Local Food Distribution in the Southwestern Ontario Context." (E. Fraser, 2015)

Jaffar, Atiya, "Establishing A Clean Economy Or Strengthening Indigenous Sovereignty: Conflicting & Complementary Narratives For Energy Transitions." (B. Bradshaw, 2015)

Kenny, Caitlin, "Navigating complex planning processes: The experiences of two Aboriginal governments with large mineral development proposals in their traditional territories." (B. Bradshaw, 2015)

Hodgins, Kelly, "We are a business, not a social service agency": Barriers to Widening Access for Low-Income Consumers in Alternative Food Market Spaces." (E. Fraser, 2015)

Horst, Naomi, "Ethical Consumption? There's An App For That: Exploring The Role Of Crowd Sourced Mobile Technologies In Everyday Consumption Practices." (R. Hawkins, 2015)

Shallard, Maria, "Herring (Wanai) and Well-being: Accounting for Heiltsuk values to inform future resource management and economic development opportunities." (J. Silver, 2015)

Shaw, Christina, "Frameworks to encourage adoption of BMPs in Eastern Ontario/Western Quebec." (B. Bradshaw, 2015)

Szöke, Teréz, "Investigating the Geographies of Community based Public Art and Gentrification in Downtown Eastside Vancouver." (K. Parizeau, 2015)

Van Patter, Lauren, "Exploring Human-Feral Cat Relations in Southern Ontario." (A. Hovorka, 2015)

Masters (Science):

Bond, Natachia, "Examining Adaptations to Changing Fish Populations of Tonlé Sap Lake in Cambodia: A Case Study of Pursat Province, Cambodia." (E. Fraser, 2015)

Burns, Travis, "Evaluating the spatial and temporal variability of soil moisture within the Brightwater Creek Watershed, Saskatchewan, Canada." (A. Berg, 2015)

Daly, Darren, "Monitoring change within the coastal environment of southwest Tobago: Applications of remote sensing." (R. Davidson-Arnott, 2015)

Dinh, Theresa, "Influence of Humans and Climatic Variability on Historic Wildfire Dynamics in Jasper National Park, Alberta, Canada." (Z. Gedalof, 2014)

Hutton, Cara, "Resilience and Habitat Conditions within a recent Natural Channel Design. " (J. Cockburn, 2015)

Humphrey, Rachel, "The dynamics of active layer soil moisture over Canadian Arctic tundra in Trail Valley Creek, NT observed in-situ and with remote sensing." (A. Berg, 2015)

Krompart, Jason, "Pocket wetland Impacts on Stormwater Runoff and Water Quality." (J. Cockburn, 2015)

Warren, Rebecca, "Examining the spatial distribution of soil moisture and its relationship to vegetation and permafrost dynamics in a Subarctic permafrost peatland." (A. Berg, 2015)

UNIVERSITY OF OTTAWA

PhDs:

Ladd, Matthew "Reconstructing the climate of North America during the past 2,000 yrs using pollen data" (A. Viau, 2014)

Vanwychen, Wesley "The Glaciers Dynamics and Iceberg Discharge of the Ice Masses and Tidewater Glaciers of the Canadian High Artic" (L. Copland, 2015)

Masters (Arts):

Jaja, Jessica "Beyond Climate Change Theory: What Contributes to Local-level Adaptive Capacity in Caribbean Small Island Communities?" (J. Dawson, 2015)

Laferriere, Kathryn "Environmental Health Risk perceptions and protective actions: A mixed-method study of new mothers in Ontario" (Canada E. Crighton, 2014)

Liu, Ziwei "Applying a Spatio-Temporal to the study of Urban Social Landscapes in Tianjin, China" (H. Cao, 2014)

Mezdour, Amina (M.A.) "Le rôle des facteurs environnementaux dans la migration internationale: Etude de cas des immigrants haitiens au Canada" (L. Veronis 2014)

Migeon, Danielle "Des racines et des ailes: mobilité et appartenance dans les communautés francophones en milieu minoritaire au Canada" (A. Gilbert, 2015)

Obokata, Reiko "Environmental Factors and Transnational Migration: A case study with Filipino newcomers in Ottawa, Canada" (L. Veronis, 2014)

Paquette, Stéphane "Religious Organizations and Identities in Newcomer Integration and Settlement in Ottawa, Canada: Conceptualizing Identities and Spaces beyond the Religious/Secular Binary" (L. Veronis, 2015)

Sullivan, Carla "Round Dancing the Rotunda: Decolonizing the University of Ottawa" (L. Veronis, 2015)

Master's (Science)

Bevington, Alexandre "Towards a TTOP-model for permafrost distribution for three areas in Yukon and northern British Columbia" (A. Lewkowicz, 2015)

Bourgeois-Roy, Andréanne "Les dépôts coquilliers de Baie Comeau Québec : Communautés d'invertébrés marins, compositions isotopiques, géochimiques et reconstruction paléo-environnementale" (D. Lacelle, 2014)

Brooker, Alexandre "Investigating changes in retrogressive way slumps in the Richardson Mountains Northwest Territories, Canada) based on Tasseled Cap trend analysis of Landsat image stacks" (D. Lacelle, 2014)

Fontaine, Marielle "Ground Ice Content and Geochemistry of the Active Layer and Permafrost in Northwestern Arctic Canada" (D. Lacelle, 2015)

Herdes, Emilie "Relationships between mass balance and intra-annual and interannual variations in motion of the Kaskawulsh Glacier, Yukon Territory" (L. Copland, 2014)

Lapalme, Caitlin "Near Surface ground Ice conditions in University Valley, McMurdo Dry Valleys of Antarctica" (D. Lacelle, 2015)

Landeiro Reyes, Eugenio "Suitable locations for reference plots based on the Nitrogen Sufficiencey Index (NSI)" (M. Sawada, 2014)

Mussells, Olivia "An Observation of Pressured Sea Ice and Ridging in the Hudson Strait and their Implications for Shipping" (L. Copland, J. Dawson, 2015)

Paquette, Catherine "A Geospatial Approach to Display the Hydrological Impacts of Permafrost Disturbances on the Geochemistry of Streams, Lower Peel River and Western Mackenzie Basin, Northwestern Canada" (B. Lauriol, 2014)

Pizzolato, Larissa "Arctic Shipping in Canada: Analysis of Sea Ice, Shipping, and Vessel Track Reconstruction" (L. Copland, J. Dawson, 2015)

Tardif, Geneviève "Multivariate Analysis of Canadian Water Quality Data." (K. Gajewski, 2015)

UNIVERSITY OF TORONTO

PhD:

Cheng, Vincent Yi San "Modelling the Climatology of Tornado Occurrence with Bayesian Inference". (George Arhonditsis & William Gough, 2014)

Neumann, Alexey "Environmental Risk Assessment and Adaptive Management Implementation in Lake Simcoe, Ontario". (George Arhonditsis, 2014)

Phillips, Roger Thomas James "Alluvial Floodplain Classification and Organization in Low-Relief Glacially Conditioned River Catchments". (Joseph Desloges, 2014)

Pitkanen, Laura Lynne "A Hot Commodity: Uranium and Containment in the Nuclear State". (Kenneth MacDonald, 2014)

Sawyer, Jennifer "Evaluating the Transfer and Accumulation of Polyunsaturated Fatty Acids in Freshwater Food Webs: a Modeling Approach". (Miriam Diamond, 2014)

Masters (Arts):

Alagraa, Bador Saadeldin "Known to Police": a Black Male Reflection on Police Violence in Toronto. (Susan Ruddick, 2015)

Barter, Hillary Corina "Slaughterhouse Rules: Declining Abattoirs and the Politics of Food Safety Regulation in Ontario". (Sarah Wakefield, 2014)

Egan, Kathleen Glory "Shoreline Modification Impacts on Lake Ecology as a Result of Intensive Cottage Cluster Development". (Harvey Shear, 2014)

Forde, Martyn Henry De Boulay "Renewable Energy Technology and the Hotel Sector of Small Island Developing States (SIDS): Managing Sustainability Transitions on the Island of Barbados". (Danny Harvey, 2014)

Grant, Sonia "The Kalamazoo River Spill: Pipelines, Politics and Economies of Knowledge". (Emily Gilbert, 2014)

Hale, Jordan Claire "Along the Highway: Landscapes of National Mourning in Canada". (Deborah Cowen & Matthew Farish, 2014)

Simone, Dylan "Household Indebtedness and Socio-Spatial Polarization among Immigrants and Visible Minority Neighbourhoods in Canada's Global Cities". (Alan Walks, 2014)

Zendel, Adam Michael "Living the Dream: Precarious Labour in the Live Music Industry". (Deborah Leslie, 2014)

Masters (Science):

Kowal, Slawomir "Temporal and Spatial Evolution of Hudsom Ba Sea Ice (1971-2011)". (William Gough, 2014)

Lane-Coplen, Daniel "Landscape Influences on Hydrological Transit Times in Precambrian Shield Catchments". (Carl Mitchell, 2015)

Nasielski, Joshua "Soybean N2 Fixation Rates in Tree-based Intercropping Systems: Effects of Water Limitations and Environmental Modifications". (Marney Isaac, 2015)

Ormshaw, Hannah Elizabeth "Ecohydrolical Controls on Temperate Wetland Shrub Dynamics". (Timothy Duval, 2014)

Tong, Alexander "Estimating Grassland Chlorophyll Content for a Mixed Grassland: Exploring the Performance of the Empirical-Statistical and the Physical Modeling Approach". (Yuhong He, 2014)

Visha, Ariola "The Temporal Trends and Fish Consumption Advisories of Mercury and PCB Contaminants in Lake Trout and Walleye from Lake Ontario, Canada". (George Arhonditsis, 2014)

UNIVERSITY OF WATERLOO

PhD:

Chen, Aijuan "China's Path in Developing Organic Agriculture: Opportunities and Implications for Small-scale Farmers and Rural Development" (S. Scott, 2015)

Fresque-Baxter, Jennifer "Water is Life: Exploring the Relationship Between Place Identity, Water and Adaptive Capacity in Fort Resolution, Northwest Territories, Canada" (D. Armitage, 2015)

Grundling, Althea "Remote sensing and biophysical monitoring of vegetation, terrain attributes and hydrology to map, characterise and classify wetlands of the Maputaland Coastal Plain, KwaZulu-Natal, South Africa" (J. Price, 2014)

Grundling, Piet-Louis Genesis and hydrological function of an African mire: understanding the role of peatlands in providing ecosystem services in semi-arid climates (J. Price, 2015)

Kheyrolla Pour, Homa "Satellite observations of lake surface state to improve weather forecasting in a lake-rich region" (C. Duguay, 2015)

Rutty, Michelle "Weather and Climate for Coastal Tourism" (D. Scott, 2014)

Schumilas, Theresa Alternative Food Networks with Chinese Characteristics (J. Cukier, 2014)

Shu, Yuanming "Deep Convolutional Neural Networks for Object Extraction from High Spatial Resolution Remotely Sensed Imagery" (J. Li, 2015)

Si, Zhenzhong "Alternative Food Networks and Rural Development Initiatives in China: Characterization, Contestations and Interactions" (S. Scott, 2015)

Simpson, Hugh "The Agricultural Community and its Contribution to Collaborative Environmental Problem-Solving" (R. de Loe, 2014)

Surdu, Christina "Spaceborne monitoring of Arctic lake ice in a changing climate" (C. Duguay, 2015)

Xu, Linlin "Mixture of Latent Variable Models for Remotely Sensed Image Processing" (J. Li, 2014)

Xu, Xiao "Exploring the Use of Remote Sensing CO2 Data to Measure the CO2 Concentration Enhancements Caused by Coal-fired Power Plants (R. Kelly & P. Parker, 2014)

Masters (Arts):

Bruce, Brittany "Collaboration and Regional Economic Development: A Comparison of North Country, New York and Four Counties, Ontario" (S. Scott, 2015)

Neil, Mary "Affective Migration: the role of food preparation and visceral experience for Egyptian migrant women settling in the Region of Waterloo" (B. Sharpe, 2015)

Masters (Science):

Brady, Michael "Changes in Sea Ice Motion and Exchange in the Beaufort Sea: 1997-2012" (R. Kelly, 2015)

Goetz, Jonathan "An Evaluation of Moisture Dynamics and Productivity of Sphagnum and Tomenthypnum mosses in Western Boreal Peatlands, Canada" (J. Price, 2014)

Gomez, Juan "Dune and Coastal Evolution in Isla Salamanca National Park, Colombia" (M.L. Byrne, 2015)

Lawrence, Haydn "Integrated spatial analysis of volunteered geographic information" (C. Robertson, 2014)

Li, Qinghuan "Exploring the use of MODIS forest transmissivity for correcting passive microwave observation of snow-covered terrain/landscape" (R. Kelly, 2015)

MacDonald, Katelyn "Modeling Present and Future Physical Coastal Vulnerability to Climate Change: North Shore, Prince Edward Island" (D. Scott, 2014)

Martin, Ian "Examination of field scale hydrological processes under three different tillage methods in southern Ontario: Conventional Till (CT); Modified Till (MT); and No Till (NT)" (M. English, 2015)

Meier, Joel "An Analysis of Quality for Volunteered Geographic Information" (C. Robertson, 2015)

Muhammad, Pervaiz "Monitoring Ice Break-Up on the Mackenzie River Using Remote Sensing" (C. Duguay, 2015)

Pauly, Maren "Red coralline algae and climate change: growth, magnesium concentration variability and the development of a new palaeoclimate proxy" (E. LeDrew, 2015)

Taylor, Neil "Hydrophysical evolution, soil water dynamics, and productivity of Sphagnum carpets in a regenerating cutover peatland" (J. Price, 2015)

Thackeray, Chad "Assessing the Influence of Canopy Snow Parameterizations on Snow Albedo Feedback in Boreal Forest Regions" (C. Fletcher, 2014)

Vab Esbroeck, Christopher "Edge of Field Phosphorus Export via Tile Drainage and Overland Flow from Reduced Tillage Systems in Ontario" (M. Macrae, 2015)

Wood, Meagan "Characterizing Spatial and Temporal Variations in Nutrient and CO2 Dynamics Within and Across Peatlands in the Western Boreal Plain, Canada" (M. Macrae, 2015)

Zell, Erika "Impacts of historical and projected climate changes on ice surfaces of the Tibbitt to Contwoyto Winter Road, Northwest Territories, Canada" (C. Duguay, 2015)

Masters of Environmental Studies (MES):

Damude, Kirstin "Historical Analysis Of Guyana's Amazon Forest Opportunities From High Forest Cover And Low Deforestation Status In The Un-Redd+ Framework" (B. Doberstein, MRP, 2014)

Huot, Danielle "Migration and Integration in Nairobi, Kenya: Refugee Rights, Social Capital, and Livelihoods in an Urban Environment" (B. Doberstein, 2015)

Huron, Ryan "Historical Roots of the North American Sugar Maple: Sap, Sugar and Syrup" (B. Murphy, MRP, 2014)

Kingsbury, Janette "The Role of Environmental Stewardship Groups in the Grand River Watershed, Ontario" (B. Mitchell, 2015)

Li, Lu "Regional Assessment of Road Salt Application for Winter Road Maintenance and its Impacts on Water Quality in Southern Ontario" (S-Y. Tan, MRP, 2015)

MacDonald, Shawn "Quantifying Rooftop Solar Power for the City of Waterloo, Ontario" (M.L. Byrne & B. Sharpe, 2014)

Matthews, Lindsay "Climate Change and Winter Road Maintenance: Planning for Change in the City of Prince George, British Columbia" (J. Andrey, 2015)

Munroe, Cailin "Evaluating Household Usage of Online Smart Grid Tools to Meet Ontario's Energy Conservation Targets" (P. Parker, MRP, 2015)

Peister, Carly "Water use on Ontario Golf Courses" (D. Scott, 2014)

Pinzon Ramirez, Carlos "Identifying the potential for oil palm land grabs in Caquetá, Colombia" (P. Johnson & D. Robinson, MRP, 2015)

O'Neill, Kendra "Bridging Mining-Scarred Landscapes and Nature- and Resource-Based Tourism and Recreation in Northern Ontario" (C. Mitchell, 2015)

Richardson, Kaitlin "Sugarbush Management in Ontario: Identification of Resilient Adaptation Strategies for a Changing Climate" (B. Murphy, MRP, 2015)

Shen, Dongsheng "Exploring the uncertainties of the climate models by comparing CMIP3 and CMIP5 datasets in Lake Ontario and Lake Superior" (C. Fletcher & S-Y. Tan, MRP, 2015)

WATERLOO –LAURIER GRADUATE PROGRAM

PhDs:

Chen, Aijuan "China's Path in Developing Organic Agriculture: Opportunities and Implications for Small-scale Farmers and Rural Development" (S. Scott, 2015)

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Shen, Dongsheng "Exploring the uncertainties of the climate models by comparing CMIP3 and CMIP5 datasets in Lake Ontario and Lake Superior" (C. Fletcher & S-Y. Tan, MRP, 2015)

YORK UNIVERSITY

PhDs:

Araya, Yikalo "Characterizing the Spatial Patterns and Spatially Explicit Probabilities of Post-Fire Vegetation Residual Patches in Boreal Wildfire Scars" (Remmel, 2014)

Arik, Hulya "Secular Bodyscapes: Corporeal and Emotional Intersections of Security and Secularism in the Turkish Military" (Drummond, 2015)

Hugill, David "The Urban Politics of Settler-Colonialism: Articulations of the colonial relation in postwar Minneapolis, Minnesota, 1945-1975 (And beyond)" (Wood, 2015)
Jackson, Sara "Building a Mineral Nation? The Oyu Tolgoi Copper-Gold Mine and Contested Infrastructure Development in Mongolia" (Flusty/Lunstrum, 2014)
Leffers, Donald "Politics of Land Developers and Development in the Toronto Region: An Institutional Approach" (Wekerle, 2015)
MacDonald, Katherine "Rupununi Imaginaries" (Peake, 2014)
McLean, Dylann "Not just clowning around: Clown characters and the transgressive transformation of Urban space" (Bain, 2015)
Smith (Han), Ei Phyu "To Build a Home: The Material Cultures, Gender Relations and the Cultivation of Meaning by Karen Refugees from Burma" (Roth, 2015)

Masters (Arts):
Baldassarra, Cameron "The Lost River: Dams, Diversions and The Death of Canoe Tripping on Quebec's Rupert River" (Jenkins, 2014)
Chrobok, Michael "Disrupting the Food Desert/Oasis Binary: Ethnic Grocery Retailers and Perceptions of Food Access in Humbermede, Toronto" (Lo, 2014)
Decosse, Stefan "New Geographies of Elite Hockey Player Production in the Neoliberal Age" (Norcliffe, 2015)
Evans, Daniel "Global Game, Local Identity: The Social Production of Football Space in Liverpool" (Norcliffe, 2014)
Felipe, Alexie "Small-Scale Mining on Mt. Balabag: Examining Class Dynamics and Socioeconomic Mobility" (Vandergeest, 2015)
Gutierrez-Castano, Julian "Internalized Racism Among Mestizas: The Geographies of Racial Relations in the Public Spaces on Pereira, Colombia" (Basu, 2015)
Maine, Nicole "'I'm the One Who Is Looking After My Family': Refugee Youth Brokers and Canadian Pre-Departure Orientation" (Hyndman, 2015)
Mijatovic, Slavisa " For the Homeland: Transnational Diasporic Nationalism and the Eurovision Song Contest" (Jenkins, 2014)
Patel, Dimple "All in the Family Business: Gujarati Motels and Second Generation Career Choices in Ontario" (Lo, 2014)
Scardellato, Stephanie "Building Public Places in Private Spaces: The Role of Toronto Private HIgh-Rise Managers in Strengthening Resident Communities" (Drummond, 2015)

Masters (Science):
Antoniadis, Melissa "The Effects of Fire on Spruce Seedling Survival and Trophic Interactions in the Hudson Bay Lowlands of Churchill, Manitoba" (Bello/Lortie, 2015)
Singh, Budhendra "The Effect of Grain Size on Morphological Patterns and Land Cover within Boreal Wildfire Residual Patches" (Remmel, 2015)

QUEBEC

CONCORDIA UNIVERSITY

Masters of Environment (Environmental Assessment) - Internship based:
Abellan, Lucia
Ahn, Nico
Aganagic, Osman
Farooq, Fatima
Feingold, Dana
Galeotti, Emmanuelle
Gonzalez Blacker, Liana Gabriella
Iliescu, Alexandra
John, Makeddah
Kelty, Maya
Li, Xiaojuan
Pandit, Laxmi Koirala
Peterson, Laura
Ruse, Jonathan
Senko, Gina
Tobin, William
Vilder, David

Masters (Science):
Jonathan Auger “Optimizing the built environment for pedestrian safety in an ageing society: Toward an inclusive approach.” (Marie-Soleil Cloutier, PhD)
Barbara Bottini-Havrillay “US Cold War development and the Genocide in Guatemala: What’s the connection? Transnational Politics of Road Building in 1960s Petén.” (Kevin Gould, PhD)
Kanwaljeet Dewan “Towards an improved understanding of community-based monitoring: A case study of the Wemindji Community Fisheries Program” (Monica Mulrennan, PhD)
Matthew Durning “A Direct Ridership Model for Rail Rapid Transit in Canada.” (Craig Townsend, PhD)
Charlotte Lamontagne “This change isn’t good”: Gitga’ata Traditional Ecological Knowledge of Environmental Change.” (Damon Matthews, PhD and Monica Mulrennan, PhD)
Daniel Moreno Pina “Comparing Cosmopolitan Discourses Across Sexual Landscapes: A Case Study of Montreal’s Gay Village and Mile End District.” (Julie Podmore, PhD and Ted Rutland, PhD)
Gwendolyn Muir “Unmapping Recruitment: An Exploration of Canada’s Temporary Foreign Worker Program in Guatemala.” (Kevin Gould, PhD)
Alexandre Paradis “Integrating hydrogeomorphological concepts in management approaches of lowland agricultural streams in Quebec: Perspectives, problems and prospects.” (Pascale Biron, PhD)
Nicolas Revington “Market Rental Housing Affordability and Accessibility to Rapid Transit in Montreal and Vancouver.” (Craig Townsend, PhD)
Natalie Wiseman “Modeling Urban Form in City Simulations.” (Zachary Patterson, PhD)
Mengqian Yang “The Route towards the Shawshank Redemption: Mapping Set-jetting with Social Media” (Sébastien Caquard, PhD)
William Zullo “Do You Think I Look like an ‘F’ Anymore?”: Trans Identities, Biopolitics and Navigating State and Medical Spaces in Québec, Canada.” (Kevin Gould, PhD and Julie Podmore, PhD)

MCGILL UNIVERSITY

PhDs:
Ames, Gillian “Floodplain livelihoods, rural-urban linkages, and aquatic resource conservation in the Pacaya Samiria National Reserve, Peruvian Amazon” (Coomes)
Becker, Michael “The ecology of decaying ice-wedges” (Pollard)
Landry, Jean- Sébastien “Modelling the effect of fire, insect, and logging disturbances on climate and vegetation across various spatial and temporal scales” (Ramankutty)
Malhotra, Avni “Relating self-regulation with ecosystem structure and function in Northern Peatlands” (Roulet)
Torio, Dante “Modelling the impacts of sea level rise on tidal wetlands” (Chmura)
Wasfi, Rania “The influence of the urban built environment on utilitarian walking and body mass index: Trip diary and longitudinal studies of Canadians” (Ross)

Masters (Arts):

Bunce, Anna "Gender and the human dimensions of climate change: global discourse and local perspectives from the Canadian Arctic" (Ford)

Finner, Kaitlyn "Food from here and there, from us and them: characterizing the food system of Rigolet, Nunatsiavut,Canada" (Ford)

Patterson, Kaitlin "Prevalence, determinants and seasonal variation of food security among the Batwa of Kanungu District, Uganda" - MA (Berrang-Ford)

Wade, Christopher "The strategic use of private property in a rangelands environment: The political ecology of pastoralist land use dynamics and property rights in Laikipia County, Kenya" (Unruh)

Zhao, Yawei "Cultural tourism the Chinese way: Negotiations for Bai ethnic minority livelihoods in Dali, Yunnan" (Turner)

Masters (Science):

Amyot, Christopher "Dissolved organic carbon and nitrogen dynamics in a pristine old growth forested watershed with anthropogenic nitrogen deposition" (Roulet)

Clark, Emily "Historical trends of ecosystem services in Canada, 1911-2011" (Rhemtulla)

De Gea, Julie "Phenology of vegetation light-use efficiency and reflectance: experiment over two boreal ecosystems" (Kalacska)

DaSilva, Korbin "Assessing physical and digital participatory model making in urban design" (Sieber)

Dryden, Rachel "Estimating the physical exposure of human population and agriculture to in-land flooding at regional and global scales" (Lehner)

Fox, Thomas "Land-use dynamics of Kerala's agroforestry systems" (Rhemtulla/Ramankutty)

Ifimov, Gabriela "Detection of an experimental mass grave over time and at different scales in a temperate environment" (Kalacska)

Ward, Melissa "The geomorphology of two hyper-saline springs in the Canadian High Arctic" (Pollard)

UNIVERSITÉ DE MONTRÉAL

PhDs:

Verdy, Martine "Relations interterritoriales, projets hydroélectriques et nationalisme: Le cas de Churchill Falls au Labrador" (Kathryn Furlong, 2015)

Khun, Kosal "Impacts des aménagements urbains sur la formation des îlots de chaleur intra-urbains. Analyse fondée sur les images de télédétection et des modèles du transfert radiatif" (François Cavayas et Claude Codjia, 2015)

Yuddy Ramos Yngaroca "Mise en relation de la pollution atmosphérique et des épisodes d'asthme par modélisation spatiale : développement d'approches géostatistiques à l'échelle urbaine pour l'estimation de l'exposition aux particules fines et à l'ozone troposphérique'' (Benoit St-Onge et Audrey Smargiassi, 2015)

Paquette, Michel "Influence de la géomorphologie dans le transfert de masse et d'énergie depuis les pentes vers le lac Ward Hunt, Haut Arctique canadien" (Daniel Fortier et Vincent Warwick)

Helbig, Manuel "L'influence de la dégradation du pergélisol sur les bilans de carbone de la forêt boréale et des tourbières dans la zone de pergélisol et sur les flux d'énergie entre les écosystèmes et l'atmosphère" (Oliver Sonnentag, 2015)

Coulombe, Stéphanie "Paléoglaciologie Pliocène-Pléistocène de l'Île Bylot, Nunavut" (Daniel Fortier et Denis Lacelle, 2015)

Deetjens, Michael "Jaguars et Bushinenge en Guyane française : Quelle place pour la culture et les savoirs locaux dans la conservation d'une espèce emblématique?" (Thora Martina Herrmann, 2015)

Jugie, Jeanne-Hélène "Les relations ville-port selon l'approche d'écologie politique. Montréal, Trois-Rivières et Sept-Îles" (Claude Comtois, 2015)

Renaud, Luc "Construction des inégalités en tourisme : la territorialité et la mobilité de l'industrie des croisières comme facteur d'exclusion des populations dans la mise en place d'une enclave touristique dans les Caraïbes" (Patricia Martin et Bruno Sarrasin, 2015)

Bonamy, Morgane "À la rencontre du carcajou et du rapport que les sociétés entretiennent avec cet animal mythique, et les implications pour sa conservation dans les Territoires du Nord-Ouest, le Nord du Québec et en Scandinavie" (Thora Martina Herrmann, 2015)

Hanisch, Jessica "Caractérisant les concentrations de carbone organique dissous et l'exportation dans un paysage de forêt boréale tourbières sous l'influence de la dégradation rapide du pergélisol discontinuous" (Oliver Sonnentag et Tim Moore, 2015)

Masters (Science):

Payette, Fanny "Regard sur l'évapotranspiration et les flux d'énergie et leurs contrôles biophysiques pour trois sites de forêt boréale et de toundra aux Territoires du Nord-Ouest avec différents climats et types de pergélisol" (Oliver Sonnentag, 2014)

Verpaelst, Manuel "Mouvements de masse par solifluxion et dynamique syngénétique du pergélisol du haut arctique, île Ward Hunt, haut arctique canadien" (Daniel Fortier, 2014)

Champagne-Gélinas, Alex "Analyse géographique des investissements pétroliers internationaux de la Chine'' (Claude Comtois, 2015)

Davesne, Gautier "Evolution spatio-temporelle du pergélisol alpin marginal dans le massif des Chic-Chocs (Gaspésie, Québec)" Daniel Fortier, 2015

Higgins, Kellina "Effet de la végétation sur la variabilité de la profondeur du front de dégel à petite échelle dans un paysage de tourbières forestier dans les Territoires du Nord-Ouest" (Oliver Sonnentag et Esther Levesque, 2015)

Lapointe-Elmbabti, Lyna "Changements paléoécologiques et paléoclimatiques dans le Nord de l'Alaska au Pléistocène Supérieur, le yedoma de la rivière Itkillik" (Julie Talbot et Daniel Fortier, 2015)

Pelletier, Nicolas "Influence du dégel du pergélisol sur le cycle du carbone d'une tourbière boréale de la zone de pergélisol discontinu" (Julie Talbot, 2015)

Tremblay, Gilbert "Séquestration de carbone atmosphérique dans la biomasse racinaire des plantations de saules"(François Courchesne et Nicolas Bélanger, 2015)

Lanno-Cyr, Sophie "Réseaux, médias et communautés haïtiennes : peut-on s'affranchir du territoire?" (Violaine Jolivet, 2015)

Marquis, Didier "Fortes densités démographiques, migrations et rapatriements de fonds : le cas de l'île de Java" (Rodolphe De Koninck, 2015)

Miquel, Jean-Charles "Épandage de biosolides papetiers et de boues de chaux dans des plantations de peupliers hybrides : Effets sur la nutrition et la croissance" (Nicolas Bélanger et Suzanne Brais, 2015)

Gaudreau, Jonathan "Modélisation des changements dans la distribution spatiale d'une espèce d'oiseau en lien avec les changements climatiques : une approche multi-agents" (Liliana Perez et Christopher Bone, 2015)

Larose, Laurence "Modélisation spatialement explicite de la croissance du pin blanc dans l'est du Canada" (François Girard et Sylvain Delagrange, 2015)

Labonté, Joanie "Cartographie et écologie du nerprun bourdaine au sud du Québec : une analyse spatiale" (François Girard et François Hébert)

Carisse-Landry, Nora Audrey "Fortes densités démographiques, pluriactivité et migrations pendulaires : le cas de l'île de Java" (Rodolphe De Koninck)

SASKATCHEWAN

UNIVERSITY OF REGINA

Masters (Science):

Kraemer, Evan "Irrigation as an adaptation to climate change in Saskatchewan: Evaluation using the CROPWAT model" (Kyle Hodder, 2015)

LATIN AMERICA

ARGENTINA

INSTITUTO DE GEOGRAFÍA "ROMUALDO ARDISSONE" DE LA UNIVERSIDAD DE BUENOS AIRES

Doctorados:

Hortensia Castro. "Crónicas de desastres, tramas del riego. Contribuciones para una historia ambiental de la Quebrada de Humahuaca" dirigida por Maria del Rosario Prieto y codirigida por Carlos Reboratti, 2013.

Marina MIRAGLIA. "La historia ambiental y los procesos de construcción territorial de dos cuencas hidrográficas de la provincia de Buenos Aires (1776 y 2006)" dirigida por Claudia Natenzon, 2013.

Maestrías:

Erasmo Puente Casas. "POLÍTICAS AMBIENTALES DE CONSERVACIÓN Y CONFLICTOS EN ÁREAS PROTEGIDAS: EL CASO DE LA SIERRA DE LA MACARENA (1948-2009)" dirigida por la Dra. Mariana Arzeno, 2014.

BOLIVIA

UNIVERSIDAD MAYOR DE SAN ANDRÉS

Maestrías:

FABIO ARNALDO POMAR AVALOS. APLICACIÓN DEL MODELO UNIVERSAL DE VARIACIÓN ESPACIAL EN LA ESTIMACIÓN DE LA SALINIDAD SUPERFICIAL DEL SUELO, CASO VIACHA, ALTIPLANO NORTE.

JULIA ELENA SILLO CONDORI. ANALISIS DE CALIDAD DE USO DE LA INFORMACION ESPACIAL EN LA CARTOGRAFIA DE TRABAJOS DE CONSULTORIA AMBIENTAL PARA ADMINISTRACIONES PUBLICAS.

HUASCAR IGNACIO MORALES QUINTELA. ANALISIS DE LA GESTION TERRITORIAL INTEGRAL EL CASO DEL PUEBLO INDIGENA LECO DE LARECAJA.

LOURDES MIRIAM QUISPE INOFUENTES. ANALISIS DE LA RED DE TRANSPORTE Y RECOLECCIÓN DE RESIDUOS SOLIDOS DOMICILIARIOS DE LA CIUDAD DE CARANAVI.

TUMY ORLANDO HERRERA CARRASCO Y HUGO REYNOSO CHOQUE CALLEX. ORDENAMIENTO TURISTICO TERRITORIAL DE LA ZONA NORTE DEL LAGO TITICACA.

RONALD STIBEN TARQUI DELGADO. LOCALIZACION OPTIMA DE SITIOS PROPUESTOS PARA LA INSTALACIÓN DE UN RELLENO SANITADIO MEDIANTE ANÁLISIS MULTICRITERIO PARA EL MUNICIPIO DE ESCOMA.

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TOMAS PILO MÓNICA LETICIA. "Elaboración de Cartografía de Riesgo de Caída de Bloques en Escenarios de Ocupación Intermitente, Mediante Sistemas de Información Geográfica. Sierra La Barrosa, Partido de Balcarce, República Argentina". (Moncada Rigoberto y Hiromitsu Yamagishi, 2014)

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Doctorados en Geografía, UNAM:

Aguilar, Yameli. "Modelo conceptual y cartográfico de la vulnerabilidad a la contaminación de las aguas subterráneas en karst tropical con un enfoque geopedológico y uso de árboles de decisión" (Francisco Bautista, 2014).

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Licenciatura:

Ojeda Ramírez, Luis Ángel. "Evolución espacio temporal del nicho ecológico de PICEA CHIHUAHUANA. Una caracterización mediante modelos con base en el algoritmo de máxima entropía, métricas de ecología del paisaje y el Índice de la Diferencia Normalizada de la vegetación". (Dra. Maria Elena Torres Olave, 2014)

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González Morales, Francisco Raúl. "Determinacion de zonas probables de deforestacion, del poniente de Chihuahua: mediante Sistemas de Informacion Geografica y Técnicas de Regresión Logística". (Dr. Luis Carlos Bravo Peña, 2014)

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Maestría en Análisis Espacial y Geoinformática:

Alpízar Manjarrez, César. "Análisis espacial para la ubicación, diseño y ampliación de la red automática de monitoreo atmosférico del gobierno del Estado de México". (Dr. Delfino Madrigal Uribe, 2013)

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LOUISIANA
- Grambling State University
- ** Louisiana State University, Shreveport
- Louisiana Tech University
- McNeese State University
- Nicholls State University
- University of Louisiana, Lafayette
- University of Louisiana at Monroe
- University of New Orleans

MAINE
- University of Maine at Farmington

MARYLAND
- Anne Arundel Community College
- Community College of Baltimore County
- Coppin State University
- ** Johns Hopkins University
- Montgomery College
- Morgan State University

MASSACHUSETTS
- Assumption College
- Bard College at Simon's Rock
- ** Boston University
- Bridgewater State University
- Cape Cod Community College
- Fitchburg State University
- Framingham State University
- ** George Perkins Marsh Institute
- Springfield Technical Community College
- * University of Massachusetts, Boston
- Wellesley College

MICHIGAN
- * Central Michigan University
- Ferris State University
- Lake Michigan College
- Lansing Community College
- Muskegon Community College
- University of Michigan, Flint
- Wayne State University

MINNESOTA
- Anoka-Ramsey Community College
- Bemidji State University
- Fond Du Lac Tribal and Community College
- Minnesota State University, Moorhead
- South Central College
- St. Catherine University
- * Saint Cloud State University
- University of St. Thomas
- Winona State University

MISSISSIPPI
- * Mississippi State University
- ** University of Southern Mississippi

MISSOURI
- Lincoln University
- Missouri Western State University
- Park University
- St. Charles Community College
- * University of Central Missouri
- ** University of Missouri, Kansas City

MONTANA
- Blackfeet Community College
- ** Montana State University
- Montana State University, Billings

NEBRASKA
- Concordia University, Nebraska
- Wayne State College
- Western Nebraska Community College

NEVADA
- ** University of Nevada, Las Vegas
- ** University of Nevada, Reno

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- Keene State College
- White Mountains Community College

NEW JERSEY
- Kean University
- Montclair State University
- New Jersey City University

NEW MEXICO
- Central New Mexico Community College
- Navajo Technical College
- New Mexico Junior College

New Mexico State University
San Juan College
Southwestern Indian Polytechnic Institute

NEW YORK
Cayuga County Community College
* Hunter College, CUNY
Long Island University, CW Campus
Niagara County Community College, SUNY
St. Lawrence University
SUNY at New Paltz
SUNY at Plattsburgh
* SUNY at Stony Brook
SUNY College at Cortland
SUNY College at Oneonta
Vassar College

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Fayetteville State University
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University of Texas of the Permian Basin
Victoria College
West Texas A&M University
Wharton County Junior College

UTAH
Brigham Young University
Salt Lake Community College
Snow College
Southern Utah University

VERMONT
St. Michael's College

VIRGINIA
Emory & Henry College
Radford University
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WASHINGTON
Columbia Basin College
Everett Community College
Green River Community College
Olympic College

Seattle Pacific University

WISCONSIN
Carroll University
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University of Wisconsin Colleges
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University of Wisconsin, Oshkosh
University of Wisconsin, Parkside
University of Wisconsin, Platteville
University of Wisconsin, Superior

WYOMING
Casper College

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Athabasca University
Medicine Hat College
University of Alberta, Augustana Campus
** University of Lethbridge

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* British Columbia Institute of Technology
Camosun College
Capilano University
College of New Caledonia
College of the Rockies
Coquitlam College
Douglas College
Kwantlen Polytechnic University
Langara College
Okanagan College
Selkirk College
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University of British Columbia, Okanagan
Vancouver Island University

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Nova Scotia Community College
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Laurentian University
* Nipissing University
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University of Toronto, Scarborough
** University of Windsor
** Wilfrid Laurier University

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Geography Degrees Conferred in the United States 1947-1948 to 2013-2014

	BA/BS			MA/MS			PhD		
	M	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**
1947-1948	223	134	357	113	44	157	15	2	17
1948-1949	361	150	511	108	30	138	23	5	28
1949-1950	611	146	757	150	53	203	36	4	40
1950-1951	583	121	704	194	32	226	46	2	48
1951-1952	552	117	669	159	35	194	36	1	37
1952-1953	533	114	647	158	27	185	36	3	39
1953-1954	589	119	708	155	25	141	49	2	51
1954-1955	496	130	626	116	25	141	44	4	48
1955-1956	534	117	651	129	32	161	43	3	46
1956-1957	574	125	699	156	26	182	45	2	47
1957-1958	730	119	849	156	28	184	47	9	56
1958-1959	775	128	903	152	29	181	43	8	51
1959-1960	858	115	972	177	29	206	64	4	68
1960-1961	789	150	939	165	28	193	47	3	50
1961-1962	910	157	1,067	212	30	242	54	4	58
1962-1963	958	164	1,122	234	40	274	57	4	61
1963-1964	1,061	235	1,296	246	60	306	62	5	67
1964-1965	1,306	291	1,597	307	48	355	65	5	70
1965-1966	1,529	405	1,934	309	61	370	52	6	58
1966-1967	1,726	437	2,163	396	67	463	75	4	79
1967-1968	2,051	573	2,624	461	88	549	94	2	96
1968-1969	2,616	722	3,338	468	95	563	120	4	124
1969-1970	2,945	802	3,747	524	113	637	140	5	145
1970-1971	3,298	869	4,167	528	121	649	147	17	164
1971-1972	3,416	910	4,326	672	114	786	191	12	203
1972-1973	3,280	928	4,208	667	142	809	211	16	227
1973-1974	3,285	946	4,231	618	145	763	199	18	217
1974-1975	3,051	899	3,950	589	132	721	199	13	212
1975-1976	2,780	953	3,733	489	176	665	147	21	168
1976-1977	2,600	994	3,594	502	188	690	136	25	161
1977-1978	2,683	1,036	3,719	492	156	648	128	30	158
1978-1979	2,516	1,061	3,577	444	177	621	114	22	136
1979-1980	2,344	1,099	3,443	422	157	579	119	19	138
1980-1981	2,184	1,089	3,273	410	152	562	95	24	119
1981-1982	2,366	1,079	3,445	393	160	553	101	22	123
1982-1983	2,234	1,107	3,341	383	190	573	88	36	124
1983-1984	2,175	1,020	3,195	406	177	583	95	25	120
1984-1985	2,100	1,000	3,100	380	182	562	103	31	134
1985-1986	2,129	927	3,056	352	212	564	90	41	131
1986-1987	2,124	931	3,055	360	194	554	100	31	131
1987-1988	2,048	900	2,948	362	210	572	99	36	135
1988-1989	2,116	897	3,013	369	179	548	94	27	121
1989-1990	2,229	981	3,210	350	205	555	109	37	146
1990-1991	2,282	1,115	3,397	413	209	622	82	37	119
1991-1992	2,627	1,224	3,851	419	223	642	90	32	122
1992-1993	2,752	1,399	4,151	423	223	646	105	45	150
1993-1994	3,011	1,438	4,449	481	242	723	105	36	141

	BA/BS			MA/MS			PhD		
	M	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**
1994-1995	2,930	1,365	4,295	524	283	807	109	43	152
1995-1996	2,746	1,399	4,145	473	283	756	129	44	173
1996-1997	2,759	1,399	4,128	461	296	757	103	*51*	154
1997-1998	2,721	1,414	4,135	479	277	756	116	56	172
1998-1999	2,665	1,416	4,081	490	270	760	105	54	159
1999-2000	2,518	1,433	3,951	456	301	757	134	66	200
2000-2001	2,525	1,456	3,981	439	287	726	130	71	201
2001-2002	2,472	1,453	3,925	447	296	743	138	67	205
2002-2003	2,490	1490	3,980	453	331	784	114	62	176
2003-2004	2,858	1,706	4,564	468	314	782	115	91	206
2004-2005	2,882	1,673	4,555	550	394	944	137	74	211
2005-2006	2,813	1,471	4,284	534	372	906	135	87	222
2006-2007	2,972	1,580	4,552	520	373	893	121	90	211
2007-2008	2,798	1,522	4,320	499	383	882	153	104	257
2008-2009	2,951	1,526	4,477	528	364	892	139	80	219
2009-2010	2,928	1,583	4,511	534	368	902	141	98	239
2010-2011	3,010	1,587	4,597	482	360	842	133	105	238
2011-2012	3,136	1,671	4,807	538	391	929	168	107	275
2012-2013	3,072	1,658	4,730	485	366	851	140	120	260
2013-2014	2,855	1,621	4,476	476	316	792	180	136	316

Source: The Integrated Postsecondary Education Data System of the National Center for Education Statistics.

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