CAL STATE LA

OFFICE OF RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

Annual Student Symposium on Research, Scholarship, & Creative Activities

1st Overall Oral Presentation

Phi Kappa Phi

India Wesley-Cardwell
B.S. Biological Sciences, Option in Microbiology
Effect of TH 17 cytokines on the antimycobacterial activity of lung epithelial cell secretions
Faculty Mentor: Dr. Edith Porter

2nd Overall Oral Presentation

Phi Kappa Phi

Farzana Yasmin Boby
M.S. Electrical Engineering
Comparison of activity classification performance based on internal and external accelerometry for stimulation-based Parkinson's disease therapy
Faculty Mentor: Dr. Deborah Won

3rd Overall Oral Presentation

Phi Kappa Phi

Kayci Hirakawa
B.A. Communication Disorder; Au.D. Audiology
The Neuronal Measures of Auditory Processing in Speech Differentiation between English Monolinguals and Spanish-English Bilinguals
Faculty Mentor: Dr. Miwako Hisagi

Cal State University, Los Angeles State Delegates for the 37th CSU Student Research Competition at San Diego State University campus on April 28-29, 2023

Campus Delegates

Behavioral and Social Sciences I

Kayci Hirakawa
B.A. Communication Disorders; Au.D. Audiology
The Neuronal Measures of Auditory Processing in Speech Differentiation between English Monolinguals and Spanish-English Bilinguals
Faculty Mentor: Dr. Miwako Hisagi

Kimia Lavasani
B.A. Psychology
Exploring Jurors' Qualitative Verdict Justifications Based on Jury Instructions
Faculty Mentor: Dr. Alma Olaguez

Behavioral and Social Sciences II
Elicet Cifuentes M.S. Kinesiology, Option I: Exercise Science *Critical health education: Using a cultural lens to teach young Latina girls about body image* Faculty Mentor: Dr. Saemi Lee
Juan Lindo M.S. Kinesiology *"I'm Sorry You Feel That Way But That Wasn't My Intention": How to Apologize with Cultural Humility* Faculty Mentors: Dr. Saemi Lee and Dr. George Crocker
Humanities and Letters I
Katherine Lainez M.A. Latin American Studies *The Erosion of Family Caused by 'Land Grabbing' in Honduras: Migration, Gendered Expectations, and those left-behind in Honduras.* Faculty Mentor: Dr. Enrique Ochoa
Humanities and Letters II
Hazel Carias-Urbina B.A. History, Minor in Latin American Studies *Conspirando en Los Angeles: History of Central American Solidarity Organizing at MacArthur Park* Faculty Mentor: Dr. Camille Suarez
Engineering and Computer Sciences II
Farzana Yasmin Boby M.S. Electrical Engineering *Comparison of activity classification performance based on internal and external accelerometry for stimulation-based Parkinson's disease therapy* Faculty Mentor: Dr. Deborah Won
Biological Sciences
India Wesley-Cardwell B.S. Biological Sciences, Option in Microbiology Title*: Effect of TH 17 cytokines on the antimycobacterial activity of lung epithelial cell secretions* Faculty Mentor: Dr. Edith Porter
Jin Hyeok Yoon M.S. Chemistry *Regiochemistry of the Singlet Oxygen Ene Reaction in Metal-Organic Frameworks* Faculty Mentors: Dr. Mathias Selke and Dr. Yangyang Liu
Harry Bevir M.S. Biological Sciences *Dynamic localization of circadian clock proteins Rbp2 and KaiB in cyanobacteria* Faculty Mentor: Dr. Susan Cohen

The following students received an outstanding presentation award at the
Student Symposium on Research, Scholarship, and Creative Activities
Oral Presentations

Behavioral and Social Sciences I
Kimia Lavasani B.A. Psychology *Exploring Jurors' Qualitative Verdict Justifications Based on Jury Instructions* Faculty Mentor: Dr. Alma Olaguez
Teresa Virgen and Aundia Dianat M.S. Forensic Psychology *Dynamics Between Defendant Race, Victim Race, and Racial Identity on Verdicts of Hispanic Mock Jurors* Faculty Mentor: Dr. Mitchell Eisen
Behavioral and Social Sciences II
Brenda Romero B.S Public Health *Identifying the Impact of Covid-19 on Southeast Asian American Subgroups* Faculty Mentors: Dr. Melanie Sabado-Liwag and Dr. Patchareeya Kwan
Elicet Cifuentes M.S. Kinesiology, Option I: Exercise Science *Critical health education: Using a cultural lens to teach young Latina girls about body image* Faculty Mentor: Dr. Saemi Lee
Humanities and Letters I
Katherine Lainez M.A. Latin American Studies *The Erosion of Family Caused by 'Land Grabbing' in Honduras: Migration, Gendered Expectations, and those left-behind in Honduras.* Faculty Mentor: Dr. Enrique Ochoa
Humanities and Letters II
Hazel Carias-Urbina B.A. History, Minor in Latin American Studies *Conspirando en Los Angeles: History of Central American Solidarity Organizing at MacArthur Park* Faculty Mentor: Dr. Camille Suarez
Robert Coronado, Jr. M.A. History *Finding Rome in Michoacán: The Relación and the Spanish Renaissance in 16th-century New Spain* Faculty Mentor: Dr. Manuel Aguilar-Moreno
Engineering and Computer Sciences I
Elizabeth Nunez B.S. Civil Engineering *The Effect of Wildfires on the Properties of Clay – Civil Engineering Point of View* Faculty Mentor: Dr. Wing Shun Kwan

Yousef Ajrab M.A. Materials Science and Engineering *Evolution of the mechanical properties of biodegradable materials with respect to time and aspect ratio* Faculty Mentor: Dr. Mathias Brieu
Engineering and Computer Sciences II
Harshil Kotamreddy B.S. Computer Science and Mathematics *AI-based TSA Passenger Arrival Prediction* Faculty Mentor: Dr. Jiang Guo
Farzana Yasmin Boby M.S. Electrical Engineering *Comparison of activity classification performance based on internal and external accelerometry for stimulation-based Parkinson's disease therapy* Faculty Mentor: Dr. Deborah Won
Biological Sciences
India Wesley-Cardwell B.S. Biological Sciences, Option in Microbiology *Effect of TH 17 cytokines on the antimycobacterial activity of lung epithelial cell secretions* Faculty Mentor: Dr. Edith Porter
Jin Hyeok Yoon M.S. Chemistry *Regiochemistry of the Singlet Oxygen Ene Reaction in Metal-Organic Frameworks* Faculty Mentors: Dr. Mathias Selke and Dr. Yangyang Liu

The following students received an outstanding presentation award at the
Student Symposium on Research, Scholarship, and Creative Activities
<u>Poster Presentations</u>

Behavioral and Social Sciences
Angela Shi B.S. Biological Sciences *Levels of Grit, Self-Compassion, and Burnout in Nursing Students* Faculty Mentors: Dr. Stacey A. Warner and Professor Anthony Carnevali
Ivan Cobian B.A. Psychology *Sex Differences in Sexual Attitudes and Homonegativity among LGBTQ+ Adults* Faculty Mentor: Dr. Heidi Riggio
Amber Pereira and Kazi Salsabil M.A. Psychology, B.A. Psychology *Gender Differences in Factors AffectingAcademic Persistence* Faculty Mentor: Dr. Gaithri A. Fernando

Jiawei Xiang
B.A. Psychology
Less Pain with Darker Skin: Individual Racial Judgement on Social Pain Perception with Presenting Variation in Human Features
Faculty Mentor: Dr. Austin Attaway

Biological Sciences

Heidy Castellon
M.S. Biology
Iron acquisition: A possible target to treat hypervirulent Acinetobactor baumannii LAC-4
Faculty Mentors: Dr. Howard Xu

Vivian Pham
B.S. Biology
Reexamining Circumorbital Bones in Geckos
Faculty Mentor: Dr. Raul Diaz, Jr.

Bryan Garcia
M.S. Biology
Phenotypic characterization of an Acinetobacter baumannii LAC-4 mutant with the deletion of the heme oxygenase gene cluster (HOC)
Faculty Mentor: Dr. Howard Xu

Cindy Nguyen and Shanti Raminani
B.S. Biochemistry
Investigating the Effects of Thermolysis on the Purification of Recombinant Antifreeze Proteins
Faculty Mentor: Dr. Xin Wen

Engineering and Computer Science

Janice Nguyen
M.S. Electrical and Computer Engineering
A Classification Model for Facial Landmark Tracking to Determine Sentence Types for American Sign Language Recognition
Faculty Mentor: Dr. Y. Curtis Wang

Catalina Lee
M.S. Mechanical Engineering
Design of Truss Structures Made of Linear Elastic Materials for Hyperelastic Anisotropic Applications
Faculty Mentor: Dr. Mathias Brieu

Matthew Engquist and Amir Shakibi
M.S. Materials Science
Microstructural Analysis of Laser-Wire Direct Energy Deposition 316L Stainless Steel
Faculty Mentor: Dr. Moshen Eshraghi

Isaac Aldape Torres
M.S. Mechanical Engineering
Optimization of a Redox Flow Battery Power Cell for Clean Energy Storage
Faculty Mentor: Dr. John Christopher Bachman

Deep M. Bhatka, Roger Roldan and Anayely M. Saguilan
B.S. Computer Science; B.S. Mechanical Engineering; M.S. Mechanical Engineering
Toward Experimental Dynamics and Fuzzy Control of an Inverted Pendulum – Cart System
Faculty Mentors: Dr. Arturo Pacheco-Vega and Dr. Gustavo B. Menezes

Health, Nutrition, and Clinical Sciences

Sydney Tan
B.S. Nutritional Science
The Relationship Between Self-efficacy and Engagement in Healthy Behaviors Among Los Angeles Community Members Living with Chronic Conditions – A Qualitative Study
Faculty Mentor: Dr. Kathryn Hillstrom

Physical and Mathematical Sciences

Arianna Camarena
M.S. Geological Sciences Environmental Hydrogeology
Groundwater Imprint on the Hydrochemistry of the Upper Los Angeles River above Sepulveda Basin
Faculty Mentor: Dr. Barry Hibbs

Juliann Panehal
M.S. Physics & Astronomy
The Inner Workings of a Protostar: A Chemical View of the Disk and Envelope of L1527
Faculty Mentor: Dr. Susan Terebey