CAL STATE LA

OFFICE OF RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

30th Student Symposium on Research, Scholarship, & Creative Activities

1st Overall Oral Presentation

Phi Kappa Phi

Monique Swaby
M.S. in Forensic Psychology
Differences in Racial Identity Predict Same-Race Leniency in Mock Jurors
Faculty Mentor: Dr. Mitchell Eisen

2nd Overall Oral Presentation

Phi Kappa Phi

Nouneh Boodaghian
M.S. Biological Sciences
Investigating the roles for essential genes in the regulation of the circadian clock in Synechococcus elongatus using CRISPR interference
Faculty Mentor: Dr. Susan E. Cohen

3rd Overall Oral Presentation

Phi Kappa Phi

Genesis Barzallo, Hung Gieng, and Estella Luu
B.S. Biochemistry and B.S. Chemistry
Quantitative Analysis of Olefins in Petroleum Fractions by Comprehensive Two-Dimensional Gas Chromatography
Faculty Mentor: Dr. Petr Vozka

Cal State University, Los Angeles State Delegates for the 36th CSU Student Research Competition at San Francisco State University campus on April 29-30, 2022

Campus Delegates

Behavioral and Social Sciences

Monique Swaby
M.S. in Forensic Psychology
Differences in Racial Identity Predict Same-Race Leniency in Mock Jurors
Faculty Mentor: Dr. Mitchell Eisen

Michael Baum
M.A. Psychology
Religiosity Predicts Negative Personality Attributes: Links with Dogmatism, Social Dominance Orientation, and Right-Wing Authoritarianism
Faculty Mentor: Dr. Heidi Riggio

Biological Sciences
Nouneh Boodaghian M.S. Biological Sciences *Investigating the roles for essential genes in the regulation of the circadian clock in Synechococcus elongatus using CRISPR interference* Faculty Mentor: Dr. Susan E. Cohen
Stephanie Varghese B.S. Biological Sciences *Drought and warming shift primary production in grasslands disproportionately by plant species* Faculty Mentors: Maggie Anderson (UMN), Dr. Amber Churchill (UMN), and Dr. Alexandra Wright (CSULA)
Engineering and Computer Sciences
Nikita O. Mishra B.S. Biochemistry, Minor in Bioinformatics & Computational Biology *Computational characterizations of binding affinity in SARS-CoV-2 variants to the human ACE2 receptor* Faculty Mentor: Dr. Negin Forouzesh
Humanities and Letters
Michelle Carballo M.A. Latin American Studies *An early modern American story: Is there only one way to be a winner?* Faculty Mentor: Dr. Kittiya Lee
Hazel Carias-Urbina B.A. History, Minor in Latin American Studies *Parade para el pueblo: Community Collaboration in the COFECA Independence Day Parade and Festival* Faculty Mentor: Dr. Camille Suarez
Physical and Mathematical Sciences I
Genesis Barzallo, Hung Gieng, and Estella Luu B.S. Biochemistry and B.S. Chemistry *Quantitative Analysis of Olefins in Petroleum Fractions by Comprehensive Two-Dimensional Gas Chromatography* Faculty Mentor: Dr. Petr Vozka
Alisa Quon and Anna Nguyen B.S. Biochemistry; B.S. Biochemistry *Porphyrinic Metal-Organic Frameworks for the Photocatalytic Detoxification of a Mustard Gas Simulant via Selective Oxidation* Faculty Mentor: Dr. Yangyang Liu
Physical and Mathematical Sciences II
Vincente Lossada M.S. Mathematics *Phase Transition in the Erdos-Renyi Random Graph* Faculty Mentor: Dr. Daphne Liu

The following students received an outstanding presentation award at the
30th Student Symposium on Research, Scholarship, and Creative Activities
Oral Presentations

Behavioral and Social Sciences
Monique Swaby M.S. in Forensic Psychology *Differences in Racial Identity Predict Same-Race Leniency in Mock Jurors* Faculty Mentor: Dr. Mitchell Eisen
Audrey Zhang B.A. Psychology *Effects of Therapeutic Versus Popular Music on College Students' Stress Levels* Faculty Mentor: Dr. Senqi Hu
Biological Sciences
Nouneh Boodaghian M.S. Biological Sciences *Investigating the roles for essential genes in the regulation of the circadian clock in Synechococcus elongatus using CRISPR interference* Faculty Mentor: Dr. Susan E. Cohen
Stephanie Varghese B.S. Biological Sciences *Drought and warming shift primary production in grasslands disproportionately by plant species* Faculty Mentors: Maggie Anderson (UMN), Dr. Amber Churchill (UMN), and Dr. Alexandra Wright (CSULA)
Engineering and Computer Sciences
Andrew Barajas M.S. Physics *Determining The Mass Of A Class0/I Protostar L1527 Using Moment Maps* Faculty Mentor: Dr. Susan Terebey
Nikita O. Mishra B.S. Biochemistry, Minor in Bioinformatics & Computational Biology *Computational characterizations of binding affinity in SARS-CoV-2 variants to the human ACE2 receptor* Faculty Mentor: Dr. Negin Forouzesh
Humanities and Letters
Michelle Carballo M.A. Latin American Studies *An early modern American story: Is there only one way to be a winner?* Faculty Mentor: Dr. Kittiya Lee
Hazel Carias-Urbina B.A. History, Minor in Latin American Studies *Parade para el pueblo: Community Collaboration in the COFECA Independence Day Parade and Festival* Faculty Mentor: Dr. Camille Suarez

Physical and Mathematical Sciences I
Daniel Lopez M.S. Mechanical Engineering *Fuzzy Logic Control in a Heat Convection Loop* Faculty Mentor: Dr. Arturo Pacheco-Vega
Alisa Quon and Anna Nguyen B.S. Biochemistry; B.S. Biochemistry *Porphyrinic Metal-Organic Frameworks for the Photocatalytic Detoxification of a Mustard Gas Simulant via Selective Oxidation* Faculty Mentor: Dr. Yangyang Liu
Physical and Mathematical Sciences II
Vincente Lossada M.S. Mathematics *Phase Transition in the Erdos-Renyi Random Graph* Faculty Mentor: Dr. Daphne Liu

The following students received an outstanding presentation award at the
30th Student Symposium on Research, Scholarship, and Creative Activities
Poster Presentations

Behavioral and Social Sciences
Lily Tran Master of Public Health *Assessing High School Students' Knowledge and Attitudes Towards Sex Education* Faculty Mentors: Dr. Melanie Sabado-Liwag and Dr. Kimberly Kisler Pisca
Villy Basuki M.S. Healthcare Management *Psychotherapy: Its Efficacy for ADHD Treatment in Children and Adolescents* Faculty Mentor: Dr. Mengying He
Emeline Beltran M.A. Communication Studies *Painting, Prevention, and Promotion: How Art Can Teach Public Health to Elementary Schools* Faculty Mentor: Dr. Angela Cooke-Jackson
Biological Sciences
Patricia Sandoval, Octavio Zaragosa Rodriguez, Salvador Guerra, James Arazia, Shantal Flores, Nelson Henriquez, Ojaswini Suryavanshi, Y. Curtis Wang, and Michael Selvan Joseph M.S. Kinesiology, Option in Exercise Science *Identification of the optimal training paradigm to facilitate recovery in spinal cord contused animals* Faculty Mentor: Dr. Michael Selvan Joseph
Engineering and Computer Science

David Gonzalez
B.S. Electrical Engineering
A Cascaded Optimal Linear Filter Estimation of Energy Expenditure
Faculty Mentor: Deborah Won

Physical and Mathematical Sciences

Jin Hyeok Yoon and Raymond Lo
M.S. Chemistry; B.S. Chemistry
Regiochemistry of the Singlet Oxygen Ene-Reaction in Metal-Organic Frameworks
Faculty Mentors: Dr. Mathias Selke and Dr. Yangyang Liu

Howard Dong
B.S. Applied Mathematics
Anti-magic labeling of trees
Faculty Mentor: Dr. Daphne Liu