



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
<u>Monique Swaby</u> M.S. in Forensic Psychology <i>Differences in Racial Identity Predict Same-Race Leniency in Mock Jurors</i> Faculty Mentor: Dr. Mitchell Eisen
2nd Overall Oral Presentation
Phi Kappa Phi
<u>Nouneh Boodaghian</u> M.S. Biological Sciences <i>Investigating the roles for essential genes in the regulation of the circadian clock in <i>Synechococcus elongatus</i> using CRISPR interference</i> Faculty Mentor: Dr. Susan E. Cohen
3rd Overall Oral Presentation
Phi Kappa Phi
<u>Genesis Barzallo, Hung Gieng, and Estella Luu</u> B.S. Biochemistry and B.S. Chemistry <i>Quantitative Analysis of Olefins in Petroleum Fractions by Comprehensive Two-Dimensional Gas Chromatography</i> 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 <i>Differences in Racial Identity Predict Same-Race Leniency in Mock Jurors</i> Faculty Mentor: Dr. Mitchell Eisen
Michael Baum M.A. Psychology <i>Religiosity Predicts Negative Personality Attributes: Links with Dogmatism, Social Dominance Orientation, and Right-Wing Authoritarianism</i> 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
<p>Monique Swaby M.S. in Forensic Psychology <i>Differences in Racial Identity Predict Same-Race Leniency in Mock Jurors</i> Faculty Mentor: Dr. Mitchell Eisen</p>
<p>Audrey Zhang B.A. Psychology <i>Effects of Therapeutic Versus Popular Music on College Students' Stress Levels</i> Faculty Mentor: Dr. Senqi Hu</p>
Biological Sciences
<p>Nouneh Boodaghian M.S. Biological Sciences <i>Investigating the roles for essential genes in the regulation of the circadian clock in <i>Synechococcus elongatus</i> using CRISPR interference</i> Faculty Mentor: Dr. Susan E. Cohen</p>
<p>Stephanie Varghese B.S. Biological Sciences <i>Drought and warming shift primary production in grasslands disproportionately by plant species</i> Faculty Mentors: Maggie Anderson (UMN), Dr. Amber Churchill (UMN), and Dr. Alexandra Wright (CSULA)</p>
Engineering and Computer Sciences
<p>Andrew Barajas M.S. Physics <i>Determining The Mass Of A Class 0/I Protostar L1527 Using Moment Maps</i> Faculty Mentor: Dr. Susan Terebey</p>
<p>Nikita O. Mishra B.S. Biochemistry, Minor in Bioinformatics & Computational Biology <i>Computational characterizations of binding affinity in SARS-CoV-2 variants to the human ACE2 receptor</i> Faculty Mentor: Dr. Negin Forouzesh</p>
Humanities and Letters
<p>Michelle Carballo M.A. Latin American Studies <i>An early modern American story: Is there only one way to be a winner?</i> Faculty Mentor: Dr. Kittiya Lee</p>

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

Porphyritic 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 Zaragoza-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