



CAL STATE LA

OFFICE OF RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

27th Annual Student Symposium on Research, Scholarship, & Creative Activities

1st Overall Oral Presentation
Phi Kappa Phi – Travel Award
Joseph Iorio
B.S. Mechanical Engineering
<i>A Survey of Existing Challenges and Opportunities for Soaring Flight on Mars</i>
Faculty Mentor: Dr. He Shen

Cal State University, Los Angeles State Delegates for the

33rd CSU Student Research Competition

Campus Delegates
Behavioral and Social Sciences
Yesenia Mendoza
M.A. Communication Studies
<i>Exploring how Oncologists' Communicate about Treatment Cost</i>
Faculty Mentor: Dr. Elaine Wittenberg
Minna K. Suomi
M.A. Psychology
<i>The Effects of Immigration Policy on the Psychological Wellbeing of International Student and Minority Group Identification as a Potential Protective Factor</i>
Faculty Mentor: Dr. Jessica Dennis
Biological and Agricultural Sciences
Ekinadoese Salami

M.S. Nutritional Science

Functional Properties of Germinated Brown Rice Protein Extracted from Three Methods

Faculty Mentor: Dr. Jing Zhao

Education

Oscar Armando Gil Rodriguez

M.A. Education

Exploring the Role that Parental Socio-Emotional Support Plays in Latino Secondary-to-Higher Educational Transition

Faculty Mentor: Dr. Allison Mattheis

Humanities and Letters

Nancy Flores

B.A. Pan-African Studies and Latin American Studies

Locked-Out of Higher Education: Transformative Alternative Schools' Pursuit for Equitable Education

Faculty Mentor: Dr. Enrique Ochoa

Engineering and Computer Sciences

Joseph Iorio

B.S. Mechanical Engineering

A Survey of Existing Challenges and Opportunities for Soaring Flight on Mars

Faculty Mentor: Dr. He Shen

Justin Moon

M.S. Mechanical Engineering

Micro-Channel Conjugate Heat Transfer Simulations with Wavy Geometry and Thermal Property Effects on Block Material

Faculty Mentor: Dr. Arturo Pacheco-Vega

Abraham Rav-Noy and Jovanny Santana

B.S. Mechanical Engineering

Predicting the Granular Structure of a Powder Bed for a Selective Laser Sintering 3D Printer

Faculty Mentor: Dr. Arman Pazouki

Health, Nutrition, and Clinical Sciences

Violet Perez

B.S. Food Science

Capsaicinoids in Snack Products and their Stability Under Thermal Processing Conditions

Faculty Mentor: Dr. Jing Zhao

Physical and Mathematical Sciences

Roberto Alexander Tejada Arevalo

B.S. Physics

The Search for Low-mass Dwarfs in the Southern Skies

Faculty Mentor: Dr. Susan Terebey

The following students received an outstanding presentation award at the

27th Annual Student Symposium on Research, Scholarship, and Creative Activities

Oral Presentations

Behavioral and Social Sciences I

Angela Navata

B.A. Psychology

Colorism and Colonial Mentality among Filipinos and Filipino Americans

Faculty Mentor: Dr. Jessica Dennis

Minna K. Suomi

M.A. Psychology

The Effects of Immigration Policy on the Psychological Wellbeing of International Student, and Minority Group Identification as a Potential Protective Factor

Faculty Mentor: Dr. Jessica Dennis

Behavioral and Social Sciences II

Nancy Flores

B.A. Pan-African Studies and Latin American Studies

Locked-Out of Higher Education: Transformative Alternative Schools' Pursuit for Equitable Education

Faculty Mentor: Dr. Enrique Ochoa

Yesenia Mendoza

M.A. Communication Studies

Exploring how Oncologists Communicate about Treatment Cost

Faculty Mentor: Dr. Elaine Wittenberg

Biological Sciences

Megan Chang

B.S. Biochemistry

Real-time Monitoring and Kinetics Analysis of Protein and Cell Membrane Interactions using Surface Plasmon Resonance Microscopy (SPRm)

Faculty Mentor: Dr. Yixian Wang

Ekinadoese Salami

M.S. Nutritional Science

Functional Properties of Germinated Brown Rice Protein Extracted from Three Methods

Faculty Mentor: Dr. Jing Zhao

Business, Economics, Education, and Public Administration

Megan Escobar and Alexander Bugarin

B.S. Computer Information Systems

Visualizing Crime Statistics using Big Data Analytics on Hadoop

Faculty Mentor: Dr. Jongwook Woo

Oscar Armando Gil Rodriguez

M.A. Education

Exploring the Role that Parental Socio-Emotional Support Plays in Latino Secondary-to-Higher Educational Transition

Faculty Mentor: Dr. Allison Mattheis

Creative Arts

Raquel Rojas

M.A. Art History

Uterus of Life | Trees of Life in the Ancient Codices

Faculty Mentor: Dr. Manuel Aguilar-Moreno

Engineering and Computer Sciences I

Joseph Iorio

B.S. Mechanical Engineering

A Survey of Existing Challenges and Opportunities for Soaring Flight on Mars

Faculty Mentor: Dr. He Shen

Francisco Moxo Galicia

M.S. Mechanical Engineering

Dynamic Modeling and Control of a Two Wheeled Service Robot

Faculty Mentor: Dr. He Shen

Engineering and Computer Science II

Justin Moon

M.S. Mechanical Engineering

Micro-Channel Conjugate Heat Transfer Simulations with Wavy Geometry and Thermal Property Effects on the Block Material

Faculty Mentor: Dr. Arturo Pacheco-Vega

Abraham Rav-Noy and Jovanny Santana

B.S. Mechanical Engineering

Predicting the Granular Structure of a Powder Bed for a Selective Laser Sintering 3D Printer

Faculty Mentor: Dr. Arman Pazouki

Health, Nutrition, and Clinical Sciences

Arpie Haroutounian

M.S. Kinesiology

The Effects of Heat Acclimation with Permissive Dehydration on Changes in VO₂max and Cycling Performance in a Temperate Environment

Faculty Mentor: Dr. Ailish Sheard

Violet Perez

B.S. Food Science and Technology

Capsaicinoids in Snack Products and their Stability Under Thermal Processing Conditions

Faculty Mentor: Dr. Jing Zhao

Humanities and Letters

Citlalli Anahuac

M.A. History

See What the Cihuatl Saw: Disrupting Conquest and the Archive of Coloniality in Sixteenth Century Mexico

Faculty Mentor: Dr. Kittiya Lee

Patrick O'Rourke

B.A. History

Giant Steps: Jazz Diplomacy in the Cold War

Faculty Mentor: Dr. Choi Chatterjee

Physical and Mathematical Sciences I

Natalia Neris

M.S. Chemistry

3D Multilayered Paper-and Thread/Paper-Based Microfluidic Devices for Bioassays

Faculty Mentor: Dr. Frank A. Gomez

Alex Zhou

B.S. Physics

Benchmarking Quantum Chemistry Methods for Accurate Fixed-Charge Electrostatic Models

Faculty Mentor: Dr. Paul Nerenberg

Physical and Mathematical Sciences II

Miguel Romero, Alexander Celis, and Luis Valencia

B.S. Mechanical Engineering, B.S. Mechanical Engineering, B.S. Physics

Gravitinosas SUSY Dark Matter and KK Particles, given Gravitinos are Majorana Particles, in the quest of a Mirror Symmetric Galaxy

Faculty Mentor: Dr. Shanna Coleman Dobson

Roberto Alexander Tejada Arevalo

B.S. Physics

The Search for Low-Mass Dwarfs in the Southern Skies

Faculty Mentors: Dr. Susan Terebey and Dr. Christopher Theissen

The following students received an outstanding presentation award at the

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Poster Presentations

Behavioral and Social Sciences

Maira Anaya Lopez

B.A. Psychology

A Comparative Study of Health Factors in Children with Disabilities

Faculty Mentor: Dr. Olajide Bamishigbin

Alisheia Moreno

B.A. Psychology

The biasing effects of gang evidence on verdicts and jurors' memory for the evidence

Faculty Mentor: Dr. Mitchell Eisen

Isabel Valdovinos

B.A. Communication Disorders

Associations between language proficiency levels and lexical and semantic tasks in bilingual adults: Pilot study findings.

Faculty Mentor: Dr. Gabriela Simon-Cerejido

Rachel Verhagen

B.A. Psychology

Psychosocial Factors Associated with Depression in a Sample of Latinx Adolescents

Faculty Mentor: Dr. Olajide Bamishigbin

Biological Sciences

Cindy Garcia and Kevin Mai

B.S. Biochemistry

Developing Quantitative Model for Horizontal Gaze Nystagmus

Faculty Mentors: Dr. Jay Vargas and Dr. Paul Nerenberg

Volodia Muradyan

M.S. Biological Sciences

pSmad2 (SMOX) and the TGF- β Pathway

Faculty Mentor: Dr. Edward Eivers

Tyler Powell

M.S. Biological Sciences

Determining if the Antimicrobial Peptide Human Beta Defensin2 Functions as a Bactericidal Pore Forming Protein

Faculty Mentor: Dr. Edith Porter

Education

Desiree Caro

B.A. Child Development

An Expectancy Value Approach to Understand Latino Boys' Motivation to Persist in STEM

Faculty Mentor: Dr. Jessica Morales-Chicas and Dr. Claudia Kouyoumdjian

Engineering and Computer Science

Pratyush Muthukumar

B.S. Computer Science

High Priority Targets of Exoneration Through Machine Learning

Faculty Mentor: Dr. Jie Zhong

Salla Kim, Andrew Wong, Benjamin De La Torre, Jason Lin, and Vimal Patel

B.S. Mechanical, B.S. Electrical Engineering

Mechanical Design of Solar Sail Deployment System

Faculty Mentor: Dr. Ni Li

Health, Nutrition, and Clinical Sciences

Samuel Bridges

M.S. Exercise Science

Pull buoy use reduces the energy cost of swimming Spinal Cord Injury

Faculty Mentor: Dr. George Crocker

Physical and Mathematical Sciences

Erika Flores

M.S. Environmental Science

Phosphate Adsorption onto Iron Hydroxide Minerals

Faculty Mentors: Dr. Arezoo Khodayari and Dr. Laura M. Barge

Nia Huggins

B.S. Biological Sciences

Using Molecular Dynamics Simulations to Explain IR Spectroscopy of a Protein

Faculty Mentor: Dr. Paul Nerenberg

Innam Jeong

M.S. Mathematics

Extension of Firecracker Trees

Faculty Mentor: Dr. Daphne Liu
