

22nd ANNUAL RESEARCH &
CREATIVE WORKS SYMPOSIUM

CSUNPOSIUM

*A STUDENT
SHOWCASE*

Winner's

3-Minute Oral Presentations Winners

1st Place

Session 1 All Disciplines Graduate Students

Keely Ahrold

Graduate, Department of Kinesiology

Faculty Mentor: Teri Todd

Overhand Throwing in Young Adults with Autism

Shannon MacLaren and Katrina Wisely

Graduate, Department of Social Work

Faculty Mentor: James Decker

School Social Workers' Perceptions of TDV in Their Schools and Their Previous Training Experience

Trevor Ruppert

Graduate, Department of Biology

Faculty Mentor: Robert Espinoza

Physiological Limitations of Dispersal and Persistence in an Invasive Amphibian

2nd Place

Helen Lozano

Graduate, Department of Social Work

Faculty Mentor: Hyun-Sun Park

"Can mobile applications (apps) support helping professionals in suicide prevention efforts?"

Terrence Stewart

Graduate, Department of Social Work

Faculty Mentor: Judith DeBonis

Exploring Why African Americans May Not Be Utilizing Mental Health Services: Clinical Perspective

1st Place

Session 2 All Disciplines Undergraduate Students

Ronelle Caguioa

Undergraduate, Department of Biology & Chemistry and Biochemistry

Faculty Mentor: Ravinder Abrol

Basis of Beta Arrestin Recruitment Over G-Protein Mediated Signaling by Atypical GPCR ACKR3

Ryan Finden and Shawn Recinos

Undergraduate, Department of Mechanical Engineering

Faculty Mentor: Peter Bishay

Design Optimization of an Airfoil Structure Through Cross-Platform Finite Element Analysis

Brian Richter

Undergraduate, Department of Mechanical Engineering

Faculty Mentor: Peter Bishay

Twisted and Coiled Polymers

Sharon Truong and Misael Sanchez

Undergraduate, Department of Chemistry and Biochemistry

Faculty Mentor: Jessica Vey

Initial Characterization of DszA, a monooxygenase from the Rhodococcus Biodesulfurization Pathway

- 2nd Place** **Sandra Abadir**
Undergraduate, Department of Biology
Faculty Mentor: Yoshie Hanzawa
Phosphorylation of the transcription factor FD by Calcium Dependent Protein Kinases and its roles in flowering control in plants
- Tristin Suhr and Robin Bochen**
Undergraduate, Department of Electrical and Computer Engineering
Faculty Mentor: Vidya Nandikolla
Design and Construction of a FlexiForce Load Sensor Conditioning and Data Relay Device
- 1st Place** **Session 3, All Disciplines Undergraduate Students**
William Brooks
Undergraduate, Department of Music
Faculty Mentor: Deanna Murray
Leveraging Experience to Address Arts Accessibility
- 2nd Place** **Raquel Menanno**
Undergraduate, Department of Urban Studies and Planning
Faculty Mentor: Erica Wohldmann
Transportation as a Mode of Sustainability

Camino Thesis Winners

- 1st Place** **Jonathan Watts**
Graduate, Department of Health Sciences
Faculty Mentor: Patty Kawn
Associations Between Counseling Services and Depressive Affect in College Students
- 2nd Place** **Daniel Parsons**
Graduate, Department of Kinesiology
Faculty Mentor: Teri Todd
Effects of Surf Therapy on Young Adults with Autism Spectrum Disorder
- Jenica Smith**
Graduate, Department of Family and Consumer Sciences
Faculty Mentor: Nelida Duran
Analysis of Food Insecurity Among College-aged Students at California State University, Northridge

10-Minute Oral Presentations Winners

- 1st Place** **Session 1, Science & Math**
Samatar Jirde
Graduate, Department of Chemistry and Biochemistry
Faculty Mentor: Jessica Vey
Investigating the Kinetics and Mechanism of a Biodesulfurizing Enzyme, Dibenzothiophene Monooxygenase
- 2nd Place** **Bret Sample**
Graduate, Department of Geological Science
Faculty Mentor: Robinson Cecil
Detrital zircon analysis of Miocene strata of the El Paso Basin, southern California, and new constraints on uplift of the Southern Sierra Nevada
- 1st Place** **Session 2, Social & Behavioral Sciences**
Christian Citlali and Alexander Nava
Graduate, Department of Social Work
Faculty Mentor: Lauren Willner
Health Care Providers Voices: Highlighting Transgender Youth Barriers to Accessing Health Services
- 2nd Place** **Yadira Tejeda**
Graduate, Department of Social Work
Faculty Mentor: Jodi Brown
Homeless Former Foster Youth: Challenges Exiting the Foster System
- 1st Place** **Session 3, Science & Math**
Vanessa Wolf, BUILD Grant
Undergraduate, Department of Mathematics
Faculty Mentor: Maria-Rita D'Orsogna
Investigating the Complex Network Properties of the Electric Grid
- 2nd Place** **Shannen Guarina**
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Gagik Melikyan
Allylic Rearrangements in Reductive Coupling Reactions of Vinyl Propargyl Alcohols
- Salma Walker**
Undergraduate, Department of Physics and Astronomy
Faculty Mentor: Henk Postma
Linearity Analysis and Efficiency Testing of The Chromospheric Lyman-Alpha Spectro-Polarimeter (CLASP) Science Cameras for Flight
- 1st Place** **Session 4, Science & Math**
Stacey Gallegos
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Glial Enriched Progenitor Cells: a Novel Cell-Based Therapy for White Matter Stroke

- 2nd Place** **Lawrence Shaktah**
 Graduate, Department of Biology
 Faculty Mentor: Cindy Malone
Regulation and Promoter Region Characterization of the PDCD6IP Gene
- 1st Place** **Session 5, Science & Math**
Niveditha Ramadoss
 Graduate, Department of Biology
 Faculty Mentor: Chhandak Basu
Functional Characterization of Transgenic Arabidopsis Thaliana Plants Over-Expressing Aminocyclopropane-1-Carboxylic Acid Oxidase Gene
- 2nd Place** **Sarkis Hamalian**
 Graduate, Department of Biology
 Faculty Mentor: Jonathan Kelber
Novel Tumor-Promoting Functions of PEAK1 Kinase in the Fibroblast Compartment of Breast Cancer Stroma
- 1st Place** **Session 6, Engineering & Computer Science**
Erin Hong
 Graduate, Department of Mechanical Engineering
 Faculty Mentor: Christoph Schaal
Reverse Engineering Stiffened Plates Using Guided Wave-Based Nondestructive Testing Methods
- 1st Place** **Session 7, Science & Math**
Meaghan Clark
 Graduate, Department of Biology
 Faculty Mentor: Jeanne Robertson
Unraveling the Rainbow: Evolutionary History of Red-Eyed Treefrogs in a Hotspot of Color-Pattern Diversity
- 2nd Place** **Rachel Larson**
 Graduate, Department of Biology
 Faculty Mentor: Tim Karels
Seasonal Variation in Resource Use of Urban and Suburban Coyotes in Southern California
- 1st Place** **Session 8, Science and Math**
Michelle Olmos
 Undergraduate, Department of Biology
 Faculty Mentor: Randy Cohen
Utilizing Apigenin to Attenuate Effects of Oxidative Stress in the Spastic Han-Wistar Rat, a Model of Ataxia
- Bobby Teng**
 Undergraduate, Department of Biology
 Faculty Mentor: Lisa Banner
Modification of Gut Microbiota through Brassicaceae and Asteraceae Plants (Kale, Arugula, Dandelion) Modulate Neurodegeneration and Memory in Diet-Induced Obese Pre-Diabetic C57BL/6 Mice

- 2nd Place** **Nicolas Lopez**
Undergraduate, Department of Biology
Faculty Mentor: Cristian Ruiz-Rueda
Isolation and Characterization of Carbapenem-Resistant Bacteria in Los Angeles Area Soils
- 1st Place** **Session 9, Health & Human Development and Science & Math**
Isaac Villegas
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Optimizing CD40L Donor Constructs for Gene Editing of X-Linked Hyper-IgM Syndrome
- 2nd Place** **Mineli Harteni**
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Differentiation of hESCs into OPCs to Create Chimeric Mouse Model of Human Brain Cancer
- 1st Place** **Session 10, Health & Human Development**
Daniel Parsons
Graduate, Department of Kinesiology
Faculty Mentor: Teri Todd
The effects of Surf Therapy on Self-Determination and Quality of Life in Young Adults with Autism Spectrum Disorder
- 2nd Place** **Justin Shamunee**
Graduate, Department of Kinesiology
Faculty Mentor: Taeyou Jung
Comparison of Brain Hemodynamic Responses to Forward versus Backward Walking among People Post-Stroke
- 1st Place** **Session 11, Arts, Media & Communication, Education and Social & Behavioral Sciences**
Claudia Brade and Darleen Principe
Graduate, Department of Journalism
Faculty Mentor: Melissa Wall
A Year of Activism
- 2nd Place** **Cassidy Owen**
Graduate, Department of Sociology
Faculty Mentor: David Boyns
The Impact of Financial Debt on the Homeless Population
- 1st Place** **Session 12, Humanities**
Krishna Narayanamurti
Graduate, Department of English
Faculty Mentor: Iswari Pandey
Universal Individuality: The Borderless, New Adult Poetry of Rupi Kaur
- 1st Place** **Session 13, Social & Behavioral Sciences and Arts, Media, & Communication**
John Jawiche and Kimberly Mcgee
Undergraduate, Department of Psychology
Faculty Mentor: Elise Fenn
Testing Stereotype Threat Reduction in Mock Law Enforcement Interviews

- 1st Place** **Session 14, Health & Human Development and Humanities**
Shawntel Barreiro
Undergraduate, Department of Chicano/a Studies & Linguistics
Faculty Mentor: Heidi Schumacher
Central American Dialectal Convergence towards Los Angeles Vernacular Spanish (LAVS)
- 2nd Place** **Iris Ramirez and Bhernard Tila**
Undergraduate, Department of Asian American Studies & Chicano/a Studies
Faculty Mentor: Rosemary Gonzalez
Refugees Seeking Asylum: Navigating Immigration Policy and Higher Education (A Study on Unaccompanied Minors and Mixed-Status Families)
- Kenia Rodriguez**
Undergraduate, Department of English
Faculty Mentor: Heidi Schumacher
To Love and To Hold: Perceptions of the Evolution of the Ideal Wife from the Middle Ages to the 17th Century
- 1st Place** **Session 15, Engineering & Computer Science**
Bret Raquipiso
Undergraduate, Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Development of a New, Innovative, Smart Prosthetic Hand
- 1st Place** **Session 16, Science & Math**
Garrett Limon
Graduate, Department of Physics and Astronomy
Faculty Mentor: Tyler Luchko
Development and Implementation of Multigrid Solver into the 3D Reference Interaction Site Model (3D-RISM) Source Code
- 1st Place** **Session 17, Social & Behavioral Sciences**
Rebecca Esquenazi
Graduate, Department of Psychology
Faculty Mentor: Stefanie Drew
An Investigation into the Disinhibited Feedback Theory of Synesthesia
- 1st Place** **Session 18, Social & Behavioral Sciences**
Tanya Oleskowiz
Graduate, Department of Psychology
Faculty Mentor: Sara Berzenski
Maltreatment Chronicity and Personality Disorder Development: Contributions of Physiological and Emotion Regulation
- 1st Place** **Session 19, Science & Math**
Tara Mahendrarajah
Graduate, Department of Biology
Faculty Mentor: Rachel Mackelprang
Carbon Metabolism in Pleistocene Permafrost Microbial Communities

Poster Winners

- 1st Place** **Morning Poster Presentations, Graduate Students**
Ranelle Buck
Graduate, Department of Biology
Faculty Mentor: David Bermudes
Expression of Wild Type and Altered E. coli Cytotoxic Necrotizing Factor 1 by Tumor-Targeted Salmonella
- Marina Nakhla**
Graduate, Department of Psychology
Faculty Mentor: Jill Razani
Time Spent in the U.S. as a Sensitive Predictor of Full Scale Intelligence Quotient in Middle Easterners
- 2nd Place** **Kyung (Esther) Hwang**
Graduate, Department of Psychology
Faculty Mentor: Holli Tonyan
Young Children's Social and Emotional Competence of Mixed-Age Interaction in Family Child Care
- 1st Place** **Morning Poster Presentations, Undergraduate Students**
Madeline Awad, Jeannette Buenrostro, Daniel Del Cid and Sara Lundqvist
Undergraduate, Department of Psychology
Faculty Mentor: Stefanie Drew
Examining Visual Symptoms in a Diverse Population
- Gabriella Hinojosa, Erika Almira and Antranik Kirakosian, BUILD Grant**
Undergraduate, Department of Psychology
Faculty Mentor: Scott Plunkett
Parental Support and Psychological Control, Responsive Joy and Distress, and University Students' Happiness, Depression, and Anger
- 2nd Place** **Omar Ullah, BUILD Grant**
Undergraduate, Department of Child and Adolescent Development
Faculty Mentor: Shu-Sha Angie Guan
Ethnic-Racial Health Disparities: Examining the Roles of Discrimination and Social Context

- 1st Place** **Afternoon Poster Presentations, Graduate Students**
Emma Collosi
Graduate, Department of Biology
Faculty Mentor: Jeanne Robertson
Hybridizing in Plain Sight: Evolutionary Mechanisms of Substrate Matching in Cryptically Colored Crickets
- 2nd Place** **Elizabeth Hernandez**
Graduate, Department of Psychology
Faculty Mentor: Tara Fahmie
Further Evaluation of a Laboratory Model to Study the Prevention of Problem Behavior
- 1st Place** **Afternoon Poster Presentations, Undergraduate Students**
Alaniz Sarai, Jessie Bridgewater, Lizabeth Morales and Henry Villanueva, BUILD Grant
Undergraduate, Department of Psychology
Faculty Mentor: Jonathan Martinez
Understanding Therapists' Knowledge and Confidence of Parent Engagement Strategies in Community-Based Mental Health Services
- 2nd Place** **Chiemelie Onyekowunu, BUILD Grant**
Undergraduate, Department of Biology
Faculty Mentor: Virginia Huynh
Examining the Relationship Between Accent Discrimination and Stress in College Students

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STUDENTS

