Competition Award Winners

Session 1: Behavioral, Social Sciences and Public Administration - Graduate #1

1st Place:
Eric Pennino, California State University, Sacramento
Demystifying Undergraduate Research Experiences to Increase Access and Equity for Four-Year and Community College Students

2nd Place:
Isaac Ho, California State Polytechnic University, San Luis Obispo
Use of Preference Analysis to Identify Early Adopter Mind-sets of Insect-based Food Products

Session 2: Behavioral, Social Sciences and Public Administration - Graduate #2

1st Place:
Ramon Ronquillo, California State University, Dominguez Hills
Saba Rezvani
Chris Simmons
Khanh Phan
Tattoos and six inch heels: A visual exploration of the meaning of clothing for adults with mobility disabilities

2nd Place:
Jean Pauline Serrano, California State University, Northridge
Home-School Cultural Value Mismatch, Anxiety, Academic Problems, and Self-Efficacy Among Underrepresented University Freshmen

Session 3: Physical and Mathematical Sciences – Undergraduate

1st Place:
Mauricio Gomez Lopez, California State University, Fullerton
Studying the Material Properties of an Active Suspension of Swimming Bacteria

2nd Place (tie):
Alisa Quon, California State University, Los Angeles
Anna Nguyen
Porphyrinic Metal-Organic Frameworks for the Photocatalytic Detoxification of a Mustard Gas Simulant via Selective Oxidation

Felice Angelica Dacpano, California State University, Stanislaus
Eli Frazer
Analyzing the potential of toluene o-xylene monooxygenase in acetanilide metabolism by molecular modeling and site directed mutagenesis
Session 4: Biological and Agricultural Sciences - Graduate #1

1st Place:
Emma Siegfried  
*California State University, Long Beach*
Effects of Ocean Acidification and Food Availability on Mortality Rates of California Grunion (*Leuresthes tenuis*)

2nd Place:
Savannah Weaver  
*California State Polytechnic University, San Luis Obispo*
Additive Effects of Humidity and Temperature on Acclimation in a Lizard

Session 5: Biological and Agricultural Sciences - Graduate #2

1st Place:
Amanda Alker  
*San Diego State University*
Genetic insights for a coral settlement chemical from bacteria

2nd Place:
Natalie Pendicino  
*Humboldt State University*
Characterizing the relationship of Lgl1 and AKT in migration of neural stem and progenitor cells

Session 6: Engineering and Computer Science – Mixed

1st Place:
Nikita Mishra  
*California State University, Los Angeles*
Computational Characterizations of Binding Affinity in SARS-CoV-2 Variants to the Human ACE2 Receptor

2nd Place:
Mehrshad Mazaheri  
*California State University, Fullerton*
High-speed machining of 2219 Aluminum utilizing Nanoparticle Enhanced MQL lubrication

Session 7: Engineering and Computer Science – Undergraduate

1st Place:
Andrew Wolfe  
*Sonoma State University*
Low-Cost Ambient High-Frequency Radio Power Sensor

2nd Place:
Garrett Hentges  
*California State University, Bakersfield*
Odd-Even Flexible Router for High Performance Network-on-Chips

Session 8: Business, Economics, and Hospitality Management

1st Place:
Marium Sarah  
*California State University, East Bay*
Can a rewarding application drive Environment-friendly actions among individuals?

2nd Place:
Tai Reagan  
*Sonoma State University*
Guillermo Mendoza
Examining a Brand Positioning Strategy for Small Winery Operators
Evelyn Kim
Session 9: Humanities, Arts and Letters - Undergraduate #1

1st Place:
Justise Wattree  
**San Jose State University**  
The Two-Front War: Self-Help, and Black Health Activism during The Spanish Flu, HIV/AIDS, and COVID-19

2nd Place:
Vaishalee Chaudhary  
**California State University, Long Beach**  

Session 10: Humanities, Arts and Letters - Undergraduate #2

1st Place:
Pamela deVega  
**San Diego State University**  
Spreading the Love: Comparing the 1986 Nonviolent Revolution in the Philippines to the 1989 Velvet Revolutions in Eastern Europe

2nd Place:
Wesley Mariscal  
**San Francisco State University**  
Climate Interference in Islamic Egypt

Session 11: Health, Nutrition, and Clinical Sciences – Graduate

1st Place:
Jane Clare Vosteen  
**San Francisco State University**  
Kristen Corsaro  
A Comparison of Hip Strengthening Protocols and Pelvic Floor Muscle Training for Improving Pelvic Floor Muscle Strength and Pelvic Floor Dysfunction: Systematic Review and Meta-Analysis

2nd Place:
Eli Baginski  
**Humboldt State University**  
Skye Choi  
Eden Marquez  
Normative Values of College-Aged Men and Women for the 1.5-Mile Test on a Treadmill for Cardiorespiratory Fitness

Session 12: Education – Undergraduate

1st Place:
Shelby Chandar  
**California State University, Sacramento**  
Ryan Crum  
Examining faculty use of inclusive and equitable language through the lens of course syllabi

2nd Place:
Nahui Gonzalez Millan  
**California State University, Stanislaus**  
Power of Guidance: Mentorship Need and Viability for Undocumented Student Populations

Session 13: Behavioral, Social Sciences and Public Administration - Undergraduate #1

1st Place:
Krystal Alvarez-Hernandez  
**California State University, San Marcos**  
Exposure to Childhood Abuse on Symptoms of Depression Across the Perinatal Period in Mexican/Mexican American Women

2nd Place:
Nidah Mohammed  
**California State University, Northridge**
Session 14: Behavioral, Social Sciences and Public Administration - Undergraduate #2

1st Place:
Nevan Bell  
*California State University, Monterey Bay*  
Campus Perceptions of Policing and How to Improve Sense of Safety

2nd Place:
Leslie Gomez  
*California State University, Dominguez Hills*  
Lidar Study of Agricultural Landscape Usage & Food Security in the Northern Maya Lowlands

Session 15: Biological and Agricultural Sciences - Undergraduate #1

1st Place:
Madison Stewart  
*California State University, San Marcos*  
Defining the Relationship Between the Soil Microbiome and Crop Nutritional Content

2nd Place (tie):
Julia Teeple  
*California State University, Fullerton*  
Analyzing flow using accurate manta anatomy

Stephanie Varghese  
*California State University, Los Angeles*  
Drought and warming shift primary production in grasslands disproportionately by plant species and functional traits

Session 16: Biological and Agricultural Sciences - Undergraduate #2

1st Place:
Azeem Horani  
*California State University, Fullerton*  
Identification and Characterization of Nuclear Export Sequences in Polypyrimidine Tract Binding Protein 1

2nd Place:
Abagail McInnes  
*California State University, Sacramento*  
Investigating the Relationship Between Aggression and Longevity in Fruit Flies

Session 17: Education – Graduate

1st Place:
Ellre Villanueva-Ancheta  
*California State University, Monterey Bay*  
The Impact of Mentorship on Pre-PA Student Knowledge and Confidence

2nd Place:
Jacob Campbell  
*California State Polytechnic University, San Luis Obispo*  
Defining Mixed-Race College Students: Examining Graduation Gaps Between Multiracial & Monoracial Undergraduates

Session 18: Physical and Mathematical Sciences – Graduate

1st Place:
Elizabeth Kennedy  
*California State University, Chico*
Naturally Occurring Asbestos in the Rock Formations of Paradise and Magalia, CA

2nd Place:
Michael Wood  
*California State University, Dominguez Hills*
Kimberly Campos  
Air Pollution Distribution Among Vulnerable Populations in the South Los Angeles Region

**Session 19: Health, Nutrition and Clinical Sciences – Undergraduate**

1st Place:
Tanvi Gehani  
*California State Polytechnic University, San Luis Obispo*
Effect of Coconut Oil Intake in a Pig Model of Pediatric Non-Alcoholic Fatty Liver Disease

2nd Place:
Makena Pollon  
*California State University, Long Beach*
The Significance of Nationwide COVID-19 Pandemic Data and Individual Factors During the Alpha Variant on Depressive and Anxiety Symptoms in the U.S. Adult Population.

**Session 20: Humanities, Arts and Letters - Graduate #1**

1st Place:
Hannah McKinzie  
*California State University, Bakersfield*
Humor and Housewives in the Postwar United States

2nd Place:
Mei (Mikaela) Huang  
*California State University, Sacramento*
Structuralism in Literary Studies and the Role That It Plays in 2022

**Session 21: Humanities, Arts and Letters - Graduate #2**

1st Place:
Brittany Mondragon  
*California State University, San Bernardino*
Flora’s Forth Child: Race, Gender, and Nature in the Colonial British Caribbean

2nd Place:
Carrie Tully  
*Humboldt State University*
Working Towards Land Return in Goukdi’n: A History of Genocide, and a Future of Healing