

## 44th ANNUAL CENTRAL CALIFORNIA RESEARCH SYMPOSIUM

WEDS., APRIL 19, 2023 | FRESNO STATE LIBRARY

### List of Awardees

*> First place winners will receive a \$250 award; the Office of Research and Sponsored Programs will contact awardees within the next 10 days with information about the award.*

LCOE Poster Presentation Winner: Patrick Reilly (#28), Graduate, Civil Engineering, Faculty Mentor: Dr. Aly Tawfik

“Do Telecommuters Make Fewer Trips? An Analysis of Telecommuting Travel Behavior in Urban and Rural Communities in the USA”

LCOE Oral Presentation Winner: Hayley Kumagai (#132), Undergraduate, Mechanical Engineering, Faculty Mentor: Dr. The Nguyen

“Thermal Therapy Treatment for Tremors”

CSM Poster Presentation Winner: Muskan Bhatia (#84), Graduate, Biology, Faculty Mentor: Dr. Jason Bush

“Differential Gene Expression in Sub-Populations of a Metastatic Breast Cancer Cell Line”

CSM Poster Presentation Honorable Mention: Brendan Holden (#115), Undergraduate, Chemistry and Biochemistry, Faculty Mentor: Dr. Santanu Maitra

“Antifungal Drug Discovery Through Synthesis and Biological Evaluation of Small Novel Organic Molecules”

CSM Poster Presentation Honorable Mention: Yazmine Bedolla (#21), Undergraduate, Chemistry and Biochemistry, Faculty Mentor: Dr. Cory Brooks

“Structural Insight into an Anti-tumor Antibody Bound to a MUC1 Glycopeptide”

JCAST Poster Presentation Winner: Wen-Yin Chueh (#34), Undergraduate, Viticulture and Enology, Faculty Mentor: Dr. Qun Sun

“The Impact of Biofungicides on Fermentation and Aromatic Profile from Chardonnay Wine Grapes of Central Coast of California”

JCAST Poster Presentation Winner: Zachary Padilla (#93), Undergraduate, Animal Science, Faculty Mentor: Dr. Joel Slade

“Malaria Prevalence in Overwintering Ground Sparrows of the Central Valley of California”

JCAST Poster Presentation Honorable Mention: Julie Nguyen (#78), Undergraduate, Management, Faculty Mentor: Dr. Vartuhi Tonoyan

“Consumer Purchase Intentions in Ethnic Cuisines: What Matters More: Authenticity or Pricing?”

CHHS Nursing Poster Presentation Winner: Robyn Harvey, (#17), Graduate, Nursing, Faculty Mentor: Dr. Kammi Sayaseng

“School Nurse Barriers Related to the Delivery of Healthy Eating and Activities Interventions to Students”

CHHS Nursing Poster Presentation Honorable Mention: Rachel Caro (#10), Graduate, Nursing, Faculty Mentor: Dr. Eileen Jimenez

“Readmission Rates for Individuals with a Wound or Ostomy Receiving Intervention by a Certified Wound and Ostomy Nurse in an Outpatient Setting”

CHHS Poster Presentation Winner: Dexter Tan (#134), Doctoral, Biomedical Sciences, Faculty Mentor: Dr. Edward Merino

“Incorporating 3D-Printer Models in TBL Applications to Enhance Learning”

CHHS Poster Presentation Honorable Mention: Savannah Fitzgerald (#3), Graduate, Kinesiology-Sport Psychology, Faculty Mentor: Dr. Jenelle Gilbert

“State Sport-Confidence, Self-Efficacy, and Shooting Accuracy Following a Brief Mental Skills Training Intervention with Female D1 Water Polo Players”

UCSF-Fresno Outstanding Oral Graduate Winner: Lindsey Biehler (#95), Biology, Faculty Mentor: Dr. Joel Slade

“The Role of Constitutive and Genetic Innate Immunity on Salmonella in Wild Finches”

UCSF-Fresno Outstanding Oral Undergraduate Winner: Paulina Medina (#96), Biology, Faculty Mentor: Dr. Masaki Uchida

“Investigating Dec-based Linker Proteins to Mediate Assembly of P22 Virus-Like Particles (VLPs)”

COSS Oral Presentation Winner: Katharina Dreher (#15), Graduate, Criminology, Faculty Mentor: Dr. Emma Hughes

“The Housing Needs and Experience of Project Rebound Students at Fresno State”

COSS Oral Presentation Winner: Sarah Theller (#49), Graduate, Art and Design, Faculty Mentor: Dr. Keith Jordan

“(Re-)Contextualizing Pre-Christian Scandinavian Concepts of Personhood Through Re-Analysis of the Harby Figure)”

COSS Oral Presentation Honorable Mention: Alexey Mazon (#54), Undergraduate, Criminology, Faculty Mentor: Dr. Jenna Kieckhaefer

“Courthouse Facility Dogs and Legal Professionals Perceptions”

CSM Oral Presentation Winner: Joseph White (#139), Graduate, Physics, Faculty Mentor: Dr. Ettore Vitali

“Numerical Simulation of Shock Waves using the Burger’s Equation”

CSM Oral Presentation Winner: Keyanna Pinto (#65), Undergraduate, Biology, Faculty Mentor: Dr. Rory Telemeco

“Effect of Radio-transmitter Collar Color on Predation Probability in Endangered Blunt-nosed Lizards (*Gambelia sila*) in the Panoche Plateau”

CSM Oral Presentation Winner: John Gutierrez and Amber Clark (#117), Graduate, Biochemistry, Faculty Mentor: Dr. Masaki Uchida

“Encapsulation of Gold Nanoparticles into Protein Cages Through Genetically Modified Viral Proteins”

CSM Oral Presentation Honorable Mention: Ravinder Johal (#80), Undergraduate, Chemistry, Faculty Mentor: Dr. Kristi Closser

“Using Computational Chemistry to Study the Photodegradation Mechanisms of Imidacloprid”

CSM Oral Presentation Honorable Mention: Dennis Ashong (#40), Graduate, Chemistry, Faculty Mentor: Dr. Qiao-Hong Chen

“Synthesis of a JJ-450 Analog Towards AR-Based PROTACs”

CSM Oral Presentation Honorable Mention: Yugjeet Grewal (#86), Undergraduate, Biology, Faculty Mentor: Dr. Steve Blumenshine

“Growth of Juvenile Chinook Salmon and Transition From Yolk to Environmental Carbon and Nitrogen From Prey Sources”

JCAST 3MT Presentation Winner: Kaitlynn Linderholm (#19), Undergraduate, Animal Sciences and Agriculture Education, Faculty Mentor: Dr. Steven Rocca

“An Examination of University Students’ Knowledge and Perceptions of Agriculture”

JCAST 3MT Presentation Honorable Mention: Ricardo Cortez (#58), Graduate, Chemistry and Biochemistry, Faculty Mentor: Dr. Cory Brooks

“Effect of Glycosylation and Tandem Repeats on the Binding Affinity of MUC1 Binding Antibodies”

EECU Outstanding Math Presentation: Gagandeep Kaur (#36), Graduate, Mathematics, Faculty Mentor: Dr. Mario Banuelos

“Heart Failure Prediction using Machine Learning Techniques”

DRGS Davin Youngclarke Memorial Award Winner: Hiba Suhail (#71), Undergraduate, Criminology, Faculty Mentor: Dr. Ryan Ditchfield

“Does Support for Law Enforcement Predict Color-Blind Racial Attitudes Beyond Empathy and Just-World Beliefs?”

American Chemical Society Graduate Presentation Winner: Michael Stevens (#23), Chemistry and Biochemistry, Faculty Mentor: Dr. Hubert Muchalski

“Homogenous gold(I)-catalyzed Cyclization Reactions in Water Using TPGS-750-M for the Synthesis of 2-Substituted benzo[b]thiophenes”

American Chemical Society Undergraduate Presentation Winner: Brendan Holden (#115), Chemistry and Biochemistry, Faculty Mentor: Dr. Santanu Maitra

“Antifungal Drug Discovery Through Synthesis and Biological Evaluation of Small Novel Organic Molecules”

American Chemical Society Honorable Mention: Kirubel Mamo and Isabella Garcia (#56), Undergraduate, Chemistry and Biochemistry, Faculty Mentor: Dr. Hubert Muchalski

“Synthesis of Benzofurans via Au(I)-Catalyzed Cyclization of 2-Alkynyl Phenol Derivatives”

American Chemical Society Honorable Mention: Khamyl Cooksey (#133), Undergraduate, Chemistry and Biochemistry, Faculty Mentor: Dr. Qiao-Hong Chen

“Synthesis of Boronic Ester Precursor for Suzuki Coupling as Anticancer Agents”

American Chemical Society Honorable Mention: Mia-Rose Kayaian (#45), Undergraduate, Chemistry and Biochemistry, Faculty Mentor: Dr. Morgan Hawker

“Developing an Antibacterial Wound Dressing Using Pulsed and Continuous 1,8-cineole Plasma on Commercially-Available Wound Dressings”

American Chemical Society Honorable Mention: Ravinder Johal (#80), Undergraduate, Chemistry, Faculty Mentor: Dr. Kristi Closser

“Using Computational Chemistry to Study the Photodegradation Mechanisms of Imidacloprid”