

2024 Central California Research Symposium Event Schedule

ORAL PRESENTATIONS

Session A: Room 105

08:30 AM: Shaymany Suarez Garcia - *"Experiences of the Afro-descendant Transgender Community in Puerto Rico - A Study on the Access of Gender Affirming Care."*

08:45 AM: Sara Beberian - *"Human VS AI Marketing "*

09:00 AM: Noah Miranda - *"Violence and Masculinity in Aphra Behn's The Feign'd Curtizans"*

09:15 AM: Hannah Martinez - *"Freedom: An Analysis of College Students' Knowledge of Human Trafficking in California's Central Valley"*

09:30 AM: Rob Swart - *"Disturbance, Riot, or Reign of Terror?: The 1949 Pro-Democracy Movement in Colonial Uganda"*

09:45 AM: Ashley Pree - *"Understanding Medical Mistrust among Black Women in Fresno, CA: An Intersectional and Qualitative study"*

Session B: Room 206

08:30 AM: Victoria De Leon - ***"Salinity Tolerance and Forage Quality Comparison for Four Varieties of Alfalfa (*Medicago sativa* L.)"***

Additional Authors: Victoria De Leon, Harmanpreet Sharma, Susana Lopez, Sharon Benes, Anil Shrestha and Ranjit Riar.
Dept. of Plant Science, California State University, Fresno

08:45 AM: Mauricio Soriano - ***"Can Satellite Time Series Data Discern Spatial Patterns in Dry Matter Yield in 'Jose' Tall Wheatgrass (*Thinopyrum ponticum* var. 'Jose') Fields under High Salinity Conditions?"***

Additional Authors: Sharon Benes¹, Nigel Quinn², Elia Scudiero³

09:00 AM: Claudia Ramirez - ***"Modulating ApoE, AbcA1, and Ldlr levels in brain to combat Alzheimer's disease"***

Additional Authors: Aaron Chhun, Charles Kilabi, Siok Lam Lim, Masashi Kitazawa, Santanu Maitra

09:15 AM: Stan Gomez - ***"Progress Toward Generating 1,6-DHP-Derived Monomers for the Eventual Total Synthesis of Tetracyclic Bis-Piperidine Alkaloids as Potential Novel Anti-Cancer Therapeutics"***

Additional Authors: Abbas Dadawalla, Marvin Cornejo, Qiao-Hong Chen

09:30 AM: Jenica Segura - ***"Developing and assessing new approaches to introducing mathematical modeling in introductory chemistry courses"***

Additional Authors: Dermot Donnelly-Hermosillo, Eric Person

09:45 AM: Ricardo Cortez - ***"Selective cysteine reduction of antibody AR9.6 fragments for downstream conjugation "***

Additional Authors: Cory L. Brooks

Session C: Room 214

08:30 AM: Martin Ruelas - *"All Men are Liars: Keeping a Healthy Distrust of Authority in En busca de Klingsor (1999) and Oppenheimer (2023)"*

08:45 AM: Corbin Callaway - *"Healing through Art: Therapeutic Approaches in Art Education"*

09:00 AM: Cesar Flores - *"Ideological Manipulation and the Crack. The Myth of Eliah Bac and van Dijk's Theory."*

09:15 AM: Luis Guillermo Penas Mundaca - *"Romantic Love Enslaves the Characters in the Novels Sab and Cecilia Valdes or La Loma del Angel"*

09:30 AM: Dulce García Acosta - *"Slaved by Love: The Oppression of Women's Sexuality Through Heteronormative Marriage in Latin American Short Stories"*

09:45 AM: Eunice Garcia - *"The Lengths of Obsession in Aura by Carlos Fuentes"*

Session D: Room 216

08:30 AM: Ramandeep Kaur - *"Role of Lactate dehydrogenase B in the formation of tunneling nanotubes (TNTs)."*

08:45 AM: Lindsey Biehler - *"Genetic Diversity of Toll-like Receptor 4 in Cardueline Finches"*

Additional Authors: Tricia Van Laar, Joel Slade

09:00 AM: Ana Ramirez Perez - *"Analyzing the Role of L-Plastin in the Formation of Tunneling Nanotubes"*

Additional Authors: Dr.Karine Gousset

09:15 AM: Amaya De Vore - *" Exploring the Impact of Fresno State's Mobile Making Program on Youth and Undergraduate STEM Ambassadors"*

Additional Authors: Dr. Alexandria Hansen, Dr. Myunghwan Shin

09:30 AM: Gabrielle Hernandez - *"Optimizing Screening Methods to Identify Phage Resistant Mutants"*

Additional Authors: Francine A. Arroyo

Session E: Room 208

08:30 AM: Janell Zendejas - *"In-Person vs. Online Learning: What is Most Effective for Students? "*

Additional Authors: Hyeri Hong

08:45 AM: Kalue Yang - *" It Matters Where Hmong Students Receive Their Academic Advising"*

09:00 AM: Angela Allison - *" Bridging the Gap: Growing Our Own Culturally Responsive Future Healthcare Leaders "*

09:15 AM: Cyndee Mai Nguyen - *"Supporting School Leaders with Developing and Maintaining their Social Justice Beliefs and Identities"*

09:30 AM: Madhubanti Chowdhury - *"A Narrative Approach to Asian Indian Student Experiences in Post-Secondary Higher Education"*

09:45 AM: Thatcher Weldon - *"Early Student Success Course Participation tied to First-Generation Community College Student Persistence "*

Additional Authors: Pringle, S., Smith, J., Xiong, M.

Session F: Room 215

08:15 AM: Parshwa Khane - *"Creating and Analyzing a Water Purification System Integrating Activated Carbon, Graphene Nanoplatelets, and a Ti₃C₂-Based Composite Nanofiltration Matrix: Advancing Multifunctional Nanofiltration Systems for Precise Elimination of Emerging Contaminants"*

08:30 AM: Sai Deepak Kumar Reddy Katherapalli - *"Designing 4 Parallel Radix-8 Fast Fourier Transform "*

08:45 AM: Richard Poythress - *"Performance of Retaining Walls with Soil-Rubber Mixture Backfill Under Seismic Loadings of Different Frequencies"*

09:00 AM: Karthik Velagapudi - *"Advanced Low-Power Dadda Multiplier Utilizing Hybrid Adder Design"*

Additional Authors: Lakshmi Yasvanthi Sanisetty, Shuo Wu

09:15 AM: Diego Alejandro Banos - *"Numerical Simulations of Supersonic Flow Over a Flat Plate"*

09:30 AM: Heena Bindlish - *"Optimizing a Resource-sharing Round Robin Arbiter design using Clock gating in the NoC router to improve total power"*

09:45 AM: Jasmandeep Kaur - *"Comparing the Permeability and Consolidation properties of Fertilizer Treated Soil"*

Additional Authors: Ajit Kumar Jha, Lalita Oka

Session G: Room 105

10:15 AM: Ali Dadawalla - ***"Modeling Parkinson's Disease Through The Enteric Nervous System of *Drosophila melanogaster* using Alpha-Synuclein"***

Additional Authors: Kaleb Cantrell, Ismael Abdullah-Hernandez, Wendy Hernandez, David D. Lent

10:30 AM: Destiny Ortiz - ***"Effect of Fixation on Immunofluorescence"***

Additional Authors: Karine Gousset, Ph.D.

10:45 AM: Geraldine Alvarez - ***"The Fitness Cost of Evolving Antibiotic Resistance"***

Additional Authors: Francine A. Arroyo Ph.D

11:00 AM: Vanessa Ramos - ***"Association of Nutritional Status with Survival in Patients with Solid Tumors: A Stage Based Analysis"***

Additional Authors: Shabnam Pooya, PhD, Shaheen Pouya, MS, Vanessa Ramos, Amir H. Fathi, MD. MBA. FACS.

11:15 AM: Madelyn Fernandes - ***"An Evaluation of Barriers to Student Involvement in Supervised Agriculture Experience Projects as Identified by High School Agriculture Teachers"***

Additional Authors: Dr. Sharon Freeman

Session H: Room 206

10:15 AM: Seiji Shinkawa - ***"Synthesis and Evaluation of EPI PROTACs for Prostate Cancer"***

Additional Authors: Guanglin Chen, Dennis Ashong, Erick Munoz, Qiao-Hong Chen

10:30 AM: Sannad Jawad and Arcana O'Regan - ***"Exploring PTFE Surface Modification: Functionalizing the Surface with Primary Amine Groups (?)"***

Additional Authors: Arcana G. L. O'Regan

10:45 AM: Gurneet Kaur - ***"Analyzing the surface chemistry and surface roughness of nitrogen plasma-treated silk fibroin films for corneal epithelial tissue regeneration scaffolds"***

Additional Authors: Morgan J. Hawker

11:00 AM: Yazmine Bedolla - ***"Recombinant Expression of a MUC16 Antibody Fragments in E. coli"***

Additional Authors: Dr. Cory L. Brooks

11:15 AM: Rich Hang - ***"Measuring the Reproductive and Stress Response to Climate Change in Rocky Intertidal Species Petrolisthes Cinctipes and Petrolisthes Manimaculus"***

11:30 AM: Shaur Herng Chong - ***"Investigations on Anti-Prostate Cancer Agents from Central Valley Weeds"***

Additional Authors: Eva Chen, Guanglin Chen, Anil Shrestha, Qiao-Hong Chen

11:45 AM: John Gutierrez - ***"Encapsulation of gold nanoparticles into protein cages through genetically modified viral proteins"***

Additional Authors: Amber Clark, Risako Fukazawa, Dustin Echeveria, Randy Espinoza, Daniel Valenzuela Cahua, Son Nguyen, and Masaki Uchida

Session I: Room 214

10:15 AM: Zitlaly Rivas - *"The Game Within the Novel "*

10:30 AM: Orlando Lopez-Perez - *"The Fake Cuban Dictatorship through "The Feast of the Goat" and "King of Cuba""*

10:45 AM: Adam Diaz - *"The Effects of Modernity on the Identity of Mexican Society"*

11:00 AM: Ricard Ortega - *"Juan Rulfo's Perception of the Mexican Revolution"*

11:15 AM: Danny Karamanlian - *"The "Monstrous" in Fantastic Literature and its Relation to the Understanding of Special Education Students "*

11:30 AM: Karina Ortega - *"Pros and Cons of Being Bilingual/Bicultural in the US"*

11:45 AM: Crystal Ruiz - *"The Terrorizing Position of Discipline in the Short Story of "La mancha indeleble" by Juan Bosch"*

Session J: Room 216

10:15 AM: Logan Smith - *"Implementing flexible prior distribution selection for Bayesian structural equation modeling in R"*

Additional Authors: Earvin Balderama, Hyeri Hong

10:30 AM: Ashleen Nagra - *"Tracking Pneumococcal Pneumonia Progression Among Teenagers "*

10:45 AM: Catie Corchado - *"Studying Math Recitation Sessions' Effects on Peer Engagement and Course Success in College Calculus"*

11:00 AM: Elliot Wiley - *"Analyzing the Impact of Economic and Demographic Variables on Commercial Vehicle Miles Traveled in Urban California: A Statistical Modeling Approach"*

Additional Authors: Dr. Steve Chung

11:15 AM: Isaak Perez - *"Analyzing Member Enrollment Per Employer Sponsored Healthcare with Online Decision Support Tools "*

Additional Authors: Devon Devine, Bre Yamaoka, Andrew MacKenzie

11:30 AM: Isaiah Martinez - *"On an invariant for singular knots"*

Additional Authors: Carmen Caprau

11:45 AM: Audrey Baumheckel - *"Realizable Groups of Delta-Y Families of K_n "*

Additional Authors: Oscar Vega

12:00 PM: Dillon Allen - *"Zeros of Sums of Polynomials Satisfying a Three-Term Non-Contiguous Recurrence Relation"*

Session K: Room 215

10:15 AM: Saiprudhvi Donthula - ***"The Role of Stereotypes in the Hiring Practices of International Students in California's Construction Industry."***

Additional Authors: Saiprudhvi Donthula, Dr. Wei Wu, Dr. Yupeng (Vivien) Luo

10:30 AM: Matthew Gomes - ***"Integrating Flood-Resistant Design and Construction Strategies in Sustainable Homes in the Central Valley: Effective Approaches for New and Existing Structures"***

Additional Authors: Dr. Vivien Luo, Dr. Manideep Tummalapudi

10:45 AM: Siddhartha Erelli - ***"Leveraging Emerging Technologies in Construction: Opportunities and Challenges"***

Additional Authors: Siddhartha C Erelli

11:00 AM: Hemanth Kumar Kotti - ***"Overcoming Barriers to Blockchain Adoption in the Construction Industry: A Comprehensive Analysis of Smart Contract Implementation Challenges"***

Session L: Room 105

01:15 PM: Andrew Hernandez - ***"Race Related Stress: Client Perspective "***

Additional Authors: Chelsea Jean

01:30 PM: Derek Madden - ***"How should we move?"***

Additional Authors: Erinn Madden

01:45 PM: Felicia Hung - ***"And Beauty Blemished Once: Trends of Toxic Chemicals found in Facial and Non-Facial Products"***

Additional Authors: Yusur Alsalihi, Felicia Hung

02:00 PM: Sarah Lindsay - ***"Active and Efficacious: Exploring the Link Between Physical Activity Levels and Self-Efficacy for Activities of Daily Living in Individuals with Spinal Cord Injuries"***

Additional Authors: Dr. Jenelle N. Gilbert, Dr. Wade Gilbert, Dr. Brittany Clason, Justine McAlpine

02:15 PM: Abel Gutierrez - ***"In post-operative coronary artery bypass graft (CABG) patients, does the occurrence of at least one hypoglycemic event correlate to adverse outcomes?"***

02:30 PM: Dilpreet Sekhon - ***"Structural Relationships of Vehicle Miles Traveled (VMT) among Urban California Areas"***

Additional Authors: Dilpreet Sekhon, Steve Chung Ph.D.

02:45 PM: Qiwei Li - ***"Participation and the Well-being of Older Adults with ADL Disabilities: A Longitudinal application of the International Classification of Functioning, Health, and Disability"***

Session M: Room 206

01:15 PM: Jennifer-Juliette Riojas - *"Dine and Dash"*

Additional Authors: Stephen Myles, Katelyn Marin, Wakana Sakashita

01:30 PM: Rosa Sanchez - *"The boundary between illusion and reality is portrayed through the unconscious and daydreaming in the novel La última niebla by María Luisa Bombal"*

01:45 PM: Crystal Rodriguez - *"The Enigma Report"*

Additional Authors: Matthew Menchaca, Diana Castro, Zach Bush, Emanuel Bolanos

02:00 PM: Landon Lee - *"Rethinking Assimilation in Internal Migration within the United States"*

02:15 PM: Harley Calleros Cuadros - *"¿Cuanto Orgullo Es De Ser Latine?": A View on LGBTQ+ Latinas on The Basis of Media and Latin Cultures"*

Session N: Room 214

01:15 PM: Roxana Gonzalez Dorado - ***"The Synthesis and Antiproliferative Evaluation of Licochalcone A-Inspired Chalcones in Prostate Cancer and Triple Negative Breast Cancer"***

Additional Authors: Nickolas Callender, Esveidy Ocegüera, Guanglin Chen, Qiang Zhang, Guangdi Wang, Qiao-Hong Chen

01:30 PM: Jasmine Hang - ***"Combinatorial libraries using zampanolide-inspired blocks for novel cancer drug discovery"***

Additional Authors: Jasmine Hang, Lucas Solano, Esveidy Ocegüera, Matthew Wang, Eva Chen, Guanglin Chen, Padouachi Heu, Malia Simms, Kit Lam, Qiao-Hong Chen

01:45 PM: Esveidy Ocegüera Nava - ***"Synthesis of Precursors for Tetracyclic Bis-Piperidine Alkaloids (TcBPAs) as Anticancer Agents "***

Additional Authors: Jasmine Hang, Khamyl Cooksey, Shuar Herng, Rawan Almuflayhi, Guanglin Chen, Erik Sorenson, Qiao-Hong Chen

02:00 PM: Andrew Manion - ***"Epitope Characterization of MUC16 Specific Monoclonal Antibodies"***

Additional Authors: Yogeshwari Oka, Gia Huy Ryan Pham, Maram Salman, Guadalupe Romero Viramontez, and Dr. Cory L. Brooks, PhD

02:15 PM: Jason Datsko - ***"Competition Kinetics of Peroxidation with 19F NMR Spectroscopy: Synthesis and Characterization of Hydroperoxides of para-Fluoroallylbenzene"***

02:30 PM: Taylor Hornburg - ***"Physiological and Metabolomic Changes of Growing Citrus Under Elevated CO₂ and High Temperatures: A longitudinal study in Mandarins (C. reticulata.)"***

Session O: Room 216

01:15 PM: Isaac Ramirez - *"Evaluation of P300 Brain Computer Interface with Visual Feedback"*

Additional Authors: Hubert Cecotti

01:30 PM: Nikhil Hematillake - *"Fundamental Parameter Method Application to Determinations of Absolute Elemental Concentrations in a Thin Lamb Bone Slice From Microscopic X-ray Fluorescence Measurements at the Canadian Light Source Synchrotron"*

Additional Authors: David E. B. Fleming, Renfei Feng

01:45 PM: Dalvir Dhaliwal - *"Weight Quantization in Extreme Learning Machines "*

Additional Authors: Hardip Singh, Hubert Cecotti

02:00 PM: Benjamin Awad - *"X-ray Fluorescence and X-ray Attenuation Measurements of a Primary Incisor Tooth Slice"*

Additional Authors: Benjamin Awad, Mihai Gherase

02:15 PM: Leon Kantikov - *"Active Learning Based on Clustering Algorithms applied to Handwritten Digit Classification"*

Additional Authors: Hubert Cecotti Ph.D

02:30 PM: Matthew Briggs - *"X-ray attenuation measurements of a fibrous breast tissue phantom"*

Plenary: Room 105

12:10 PM: Ajmeet Pama-Ghuman – *“Characterization of the Transcriptomes of Specific Subtypes of Cellular Protrusions Isolated by Laser Capture Microdissection”*

Additional Authors: Stewart, K., Nishimura, E., Gousset, K.

12:22 PM: Vaideki Muralitharan – *“Unveiling User Gender through Keystroke Dynamics”*

12:34 PM: Anber Choudhry – *“The Psychophysiology of Vicarious Embarrassment”*

12:46 PM: Choua Vang – *“Advising Experience Among Hmong Male and Female College Students”*

Concluding Address: Room 105

3:00 PM: Alyssa Cantu – *“Drinking Water Quality and Environmental Justice in the San Joaquin Valley”*

Additional Authors: Qin Fan

3:15 PM: David Garcia– *“Trans-Resveratrol Derived from Cabernet Sauvignon Pruning Waste: An Additional Revenue Source for Grape Growers”*