

38th Annual Student Research Symposium Tuesday, March 5, 2024 | 5–9 p.m. | Science Building

An Interdisciplinary Showcase of Undergraduate & Graduate Research

Event & Presenters Schedule

5:00 to 5:20 p.m. – Welcoming Remarks, President Perez

5:30 to 7:00 p.m. - 3-Minute Presentations

6:30 to 7:30 p.m. – Poster Session

7:15 to 8:50 p.m. - 10-Minute Presentations

8:50 p.m. – Announcing the 3-Minute and Poster Session Winners

(10-Minute Presentations will not be announced until the following day. Judges need more time to deliberate for these presentations)

Appetizers – 5:00 p.m.

Dinner Buffet - 6:30 to 9:00 p.m.

POSTER PRESENTATION SCIENCE BUILDING | LOBBY

Interdisciplinary – Undergraduate & Graduate 6:30 to 7:30 p.m.

Presenter: Presentation Title: Faculty Mentor:	Celia Alejandre , Child Development, Undergraduate Butte County Hmong Youth Wellbeing Mixed Methods Study Shelly Hart
Presenter: Presentation Title: Faculty Mentor:	Sonia Benitez , Animal Science, Undergraduate Effects of Commercially Available Essential Oil Blend on Pregnancy Rates and Heat Stress in Summer Brew Ewes Celina Phillips
Presenter: Presentation Title: Faculty Mentor:	Taryn Chima , Animal Science, Undergraduate Effects of Essential Oil Blend on Fiber Digestibility in Lambs Celina Phillips
Presenter:	Emmanuel Gallegos, Biochemistry, and Rene Sabala, Chemistry, Undergraduates
Presentation Title:	Synthesis of Anthelmintic Drugs with Increased Efficacy for Enhanced Parasite Control
Faculty Mentor:	Carolynn Arpin
Presenter: Presentation Title: Faculty Mentor:	Carolina Garcia, Chemistry, Undergraduate Coumarin-Carbamate as Potential Inhibitors of Acetylcholinesterase Carolynn Arpin
Presenter: Presentation Title: Faculty Mentor:	Sonia Quintero , MPA, Graduate Accommodation of Neurodivergence in Higher Education Charles Turner
Presenter: Presentation Title:	Alexander Singelis , Psychology, Undergraduate Hallucinogenic-Assisted Therapy, Current Research and Future Potential: A Literature Review
Faculty Mentor:	Andres Garcia-Penagos

Presenter:	Jennifer Trujillo , Psychology, Undergraduate
Presentation Title:	The Impact of Working Memory Load on Distractor Suppression
Faculty Mentor:	Bo Yeong Won
Presenter: Presentation Title:	Michael Pratt (non-competitor) MATH 130 Exploratory Data Analysis (EDA) Final Project: GPA Analysis for Graduate Admissions at Chico State
Presenter:	Rosemary White (non-competitor)
Presentation Title:	Preliminary Outcomes: Adelante Postbaccalaureate Pipeline Program

3-MINUTE PRESENTATION SESSION 1 | SCIENCE BUILDING, ROOM 130

Interdisciplinary – Undergraduate 5:30 to 7:00 p.m.

Presenter:	Karen Contreras, Biochemistry, Undergraduate
Presentation Title:	The Role of Testosterone in Idiopathic Scoliosis Severity
Faculty Mentor:	Kristen Gorman
Presenter:	Jocelyn Kaveney, Exercise Physiology, Undergraduate
Presentation Title:	Nightshift Worker Study
Faculty Mentor:	Ryan Perkins
Presenter:	Jessica Moody, Microbiology, Undergraduate
Presentation Title:	Fungal Aerobiota Diversity at Big Chico Creek Ecological Reserve
Faculty Mentor:	Gerald Cobian
Presenter:	Brandon Mangunsong, Microbiology, and Jossue Ruiz , Biology, Undergraduates
Presentation Title:	Covering Our Megabasis: Confirming Osteoblast Extraction
Faculty Mentor:	Kristen Gorman
Presenter:	Andrew Richards Oort, Exercise Physiology, Undergraduate
Presentation Title:	Cold-Pressor Testing Use in Exercise Physiology
Faculty Mentor:	Ryan Perkins
Presenter:	Justin Brito, Child Development, Undergraduate
Presentation Title:	The Impact of ACEs on GPA Mediated by College Measures of Success
Faculty Mentor:	Shelley Hart
Presenter:	Aurora Barkley, Psychology, Undergraduate
Presentation Title:	Exposure to Thinness- and Fitness-Related TikTok Videos and the Impact on Food Intake
Faculty Mentor:	Andres Garcia-Penagos
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Presenter: Presentation Title: Faculty Mentor:	Julia Gonsalves , Child Development, Undergraduate College Students' Self-Concept Clarity in Role of Perceived Stress Mediated by Emotion Regulation Shelley Hart
Presenter: Presentation Title: Faculty Mentor:	Rene Sabala , Chemistry, Undergraduate Synthesis of Anthelmintic Drugs with Increased Efficacy for Enhanced Parasite Control Carolyn Arpin
Presenter:	Kenneth Hodges , Exercise Physiology, Undergraduate
Presentation Title:	A Holistic, Therapeutic Approach to Managing Parkinson's Disease
Faculty Mentor:	Feng He
Presenter:	Bryan Vallejo , Animal Science, Undergraduate
Presentation Title:	Lamb Performance from Ewes Fed Essential Oil Blend During Summer Gestation
Faculty Mentor:	Celina Phillips
Presenter:	Julie O'Mahony , Nursing, Undergraduate
Presentation Title:	Fertility, Cancer, Nutrition, and Diet (FECAND) Study
Faculty Mentor:	Cynthia Klobodu
Presenter:	Amy Beer , Social Work, Undergraduate
Presentation Title:	Visualizing Target Population Outreach: Vast Data and Geographical Regions
Faculty Mentor:	Heather Werner
Judges:	Kwadwo Boakye, Public Health and Health Services Administration Andrew D'Lugos, Kinesiology Raquel Krach, Agriculture Michael Pratt, Graduate Studies

3-MINUTE PRESENTATION SESSION 2 | SCIENCE BUILDING, ROOM 131

Presenter:	Levi Medina , Biological Sciences, Graduate
Presentation Title:	Iron Oxidization in Leptothrix Cholodnii SP-6
Faculty Mentor:	Emily Fleming
Presenter: Presentation Title: Faculty Mentor:	Joscelin Ortega Soto , Biological Sciences, Graduate The Effects of Prenatal Nicotine Exposure: Fear Memory and Extinction, and the Molecular Mechanisms Kodeeswaran Parameshwaran
Presenter:	Michaela Flynn , Biological Sciences – Microbiology, Graduate
Presentation Title:	Analyzing the Role of Lcho_0618 In Leptothrix Cholodnii Sheath Production
Faculty Mentor:	Emily Fleming
Presenter:	Arely Saldana , Psychology, Graduate
Presentation Title:	Pre-Trial Publicity and Mock Jury Decision-Making Moderated by Delay
Faculty Mentor:	Linda Kline
Presenter: Presentation Title: Faculty Mentor:	Alejandro Marquez , Biological Sciences, Graduate Mitoregulin and its Effect on Pancreatic Beta Cells Under Glucolipotoxic Conditions David Keller
Presenter:	Tawny Aeriel Bolinas , Biological Sciences, Graduate
Presentation Title:	Priority Effects of Foliar Fungal Endophytes in Leaf Litter Decomposition
Faculty Mentor:	Gerald Cobian
Presenter: Presentation Title: Faculty Mentor:	Jose Gonzalez-Ayala , Psychological Science, Graduate Perceived Gender Norms and Condom Use: Gender Status Threats and Sexual Decision-Making Patrick Johnson

Presenter: Presentation Title: Faculty Mentor:	Maredith Berdeja , Biological Sciences, Graduate Investigating the Impact of Chytrid Infection on Skin Fungal Communities in Sierra Nevada Yellow-Legged Frogs of the Plumas National Forest Gerald Cobian
Presenter:	Gracie Dupuis , Kinesiology – Exercise Physiology, Graduate
Presentation Title:	Effects of Acute Sleep Reduction on Inflammation in Healthy Adults
Faculty Mentor:	Ryan Perkins
Presenter:	Paola Amezcua , Biological Sciences, Graduate
Presentation Title:	Characterization of Scoliosis Bone: Is it defective?
Faculty Mentor:	Kristen Gorman
Presenter:	Avery Lambrite , Kinesiology, Graduate
Presentation Title:	Electrocardiography as A Tool to Explore Cardiovascular Health
Faculty Mentor:	Ryan Perkins
Presenter:	Stephanie Duarte-Amezcua , Biological Sciences, Graduate
Presentation Title:	Understanding Growth Abnormalities in Idiopathic Scoliosis
Faculty Mentor:	Kristen Gorman
Presenter: Presentation Title: Faculty Mentor:	Dylan White, Psychological Science, Graduate Microtemporal Changes in Delay Discounting: An Ecological Momentary Assessment Approach Patrick Johnson
Presenter:	Daniel Berumen , Psychological Science, Graduate
Presentation Title:	Unraveling Spirituality as a Nexus
Faculty Mentor:	Andres Garcia-Penagos
Presenter:	Daniel Maines, Psychological Science, Graduate
Presentation Title:	Graduate Today!
Faculty Mentor:	Patrick Johnson
Presenter: Presentation Title: Faculty Mentor:	Maggie Farlow , History, Graduate Butte County Women's Community, Agricultural, and Business Development, 1860-1910 Alisa Wade
Presenter:	Evan Hoeft , Geosciences, Graduate
Presentation Title:	Methane-powered Animals at a 370 Million-Year-Old Hydrocarbon Seep
Faculty Mentor:	Russell Shapiro

Presenter: Presentation Title:	Emily Mansilla , Psychological Science, Graduate Know Thy Future Self: Effects of a Future-Oriented Guided Imagery on Self-Continuity
Faculty Mentor:	Patrick Johnson
Presenter:	Dulshi Fernando, Psychological Science, Graduate
Presentation Title:	Effects of Emoji Skin Tone & Gender in a Peer-to-Peer Online Learning Scenario
Faculty Mentor:	Marie Lippmann
Presenter:	Drew Jones, Kinesiology, Graduate
Presentation Title:	Standardized Versus Neurodiversity-Affirming Motor Assessment Conditions for
	Autistic Children
Faculty Mentor:	Laynie Case

Judges: Michael Ennis, Psychology Robert Griffin-Nolan, Biology Cheng Tu Hsieh, Kinesiology Michele Mittman, CEMUR

10-MINUTE PRESENTATION SESSION 1 | SCIENCE BUILDING, ROOM 142

Presenter:	Yolanda Reyes and Brittany Reyes, Computer Engineering, Undergraduate
Presentation Title:	Does My Water Glow?
Faculty Mentor:	Paul Bailey
Presenter:	Samaher Shaheen, Mechanical Engineering, Undergraduate
Presentation Title:	The Impact of Dehydration Methods on PEGDA Hydrogel Properties in Bone Tissue Engineering
Faculty Mentor:	Ozgul Yasar
Presenter:	Isa Cook, Advanced Manufacturing and Applied Robotics, Undergraduate
Presentation Title:	Characterization of PLA-Shiitake Composite
Faculty Mentor:	Dylan Sander
Presenter:	Sam Lloyd-Harry, Mechanical Engineering, Undergraduate
Presentation Title:	Effects of Varying PEGDA: PDMS Ratios and Polymer Concentration on the Mechanical Properties of Tissue Engineering Scaffold
Faculty Mentor:	Ozgul Yasar
Presenter:	Paul Maready, Mechanical Engineering, Undergraduate
Presentation Title:	Spent Hops & PLA/PHA Composite Consolidation and Implementation
Faculty Mentor:	Dylan Sanders
Judges:	Kevin Buffardi, Computer Science
5	Corey Cole, Mechanical and Mechatronic Engineering and
	Advanced Manufacturing
	Kurtis Kredo, Electrical and Computer Engineering

10-MINUTE PRESENTATION SESSION 2 | SCIENCE BUILDING, ROOM 126

Presenter:	Sydney Paillon, Psychology, Undergraduate
Presentation Title:	It's TikTok, Why Aren't We Dancing?: Exploring the Impact of Influencer
	Authority, Identification, and Disclaimers on Health Information Endorsement
	and Self-Diagnosis of Mental Disorders
Faculty Mentor:	Kevin Click
Presenter:	Luke Richardson, Psychology, Undergraduate
Paper Title:	The Health Implications of Using Inclusive Signals and Positive Patient-Provider
	Interactions for Sexual and Gender Minorities
Faculty Mentor:	Kevin Click
Presenter:	Aaron Schwartz, Political Science, Undergraduate
Paper Title:	Breaking the Silence: Antisemitism in America
Faculty Mentor:	Diana Dwyre
Presenter:	Christina Caravalho, Mandy Peterson, and Daniela Schumacher
	Psychology, Undergraduate
Paper Title:	Failure to Launch Emotion Regulation? Without a Default Option of "Doing
	Nothing," Participants Frequently Chose to Regulate Their Emotions Effectively
Faculty Mentor:	Michael Ennis
Judges:	Shelley Hart, Child Development
-	Kim Jaxon, English
	Zanja Yudell, Philosophy

10-MINUTE PRESENTATION SESSION 3 | SCIENCE BUILDING, ROOM 250

Presenter:	Isabella Avalos, Psychological Science, Graduate
Presentation Title:	Exposure to Illicit Substances of Abuse, Impulsivity, and Risk-Taking in Abstinent College Students
Faculty Mentor:	Patrick Johnson
Presenter:	Recamier Jauregui Ocampo, Psychological Science, Graduate
Presentation Title: Faculty Mentor:	Determining the Impact of Adolescent Stress on Opioid Use Vulnerability Shawn Bates
Presenter:	Angela Adade, Nutritional Science, Graduate
Presentation Title: Faculty Mentor:	Evaluating TikTok's Impact on Nutrition Literacy and Food Attitudes Lauren McNamara
Presenter:	Sara Beacham, Kinesiology, Sport and Exercise Psychology, Graduate
Presentation Title:	Sleep Education Interventions for Collegiate Athletes: Effects on Competitive State and Trait Anxiety
Faculty Mentor:	Aubrey Newland
Presenter:	Elly O'Bryant, Psychological Science, Graduate
Presentation Title: Faculty Mentor:	Social Influences on Cocaine Reward in Adolescent Mice Shawn Bates
Presenter:	Airele Muscetta, Nutritional Science/Nutrition Education, Graduate
Presentation Title:	Caffeine and Alcohol Consumption Among Chico State University Students: Implications for Sleep Quality
Faculty Mentor:	Keiko Goto
Judges:	Feng He, Kinesiology Emily Fleming, Biology Stephanie Machado, Public Health and Health Services Administration Andres Garcia-Penagos, Psychology

10-MINUTE PRESENTATION SESSION 4 | SCIENCE BUILDING, ROOM 247

Isabel Araujo , Anthropology, Graduate
Making Stewardship First: Collaboration and Collections in Museum Policy
April Kamp-Whittaker
Tiemei Tang, Business Economics and Public Administration, Graduate
Leveraging Online Reviews for New Product Development in E-commerce
Jianliang Hao
Emily Mansilla, Psychological Science, Graduate
Measuring HIV Risk Behavior in the Laboratory: A Tale of Two Tasks
Patrick Johnson
Allison Rivers, Social Work, Graduate
Centering Youth as Co-Researchers to Map Community Assets
Susan Roll
Abhiseck Birajdar, Nihar Kamble, Gitesh Pawar, and Pranjal Pimpale
Computer Science, Graduate
Transforming Education for the Future
NA
JoAna Brooks, Graduate Studies/CEMUR
Greg Madonia, Economics
Synthia Shin, Marketing

10-MINUTE PRESENTATION SESSION 5 | SCIENCE BUILDING, ROOM 244

Presenter:	Jackson Whitlow, Kinesiology, Graduate
Presentation Title:	A Technology-Assisted MSPE Intervention with Collegiate Women's Volleyball
Faculty Mentor:	Aubrey Newland
Presenter:	Evan Drake, Computer Science, Graduate
Presentation Title:	Computing Conscious
Faculty Mentor:	Richard Tillquist
Presenter:	Eden Pikowski, Geosciences, Graduate
Presentation Title:	Paleoecology of Hydrocarbon Seeps at Blue Ridge, Colusa County, California
Faculty Mentor:	Russell Shapiro
Presenter:	Sangrun Los Vinagiology Craduata
Presentation Title:	Sangyup Lee , Kinesiology, Graduate Application of Qualitative Movement Diagnosis on Sprint Start
Faculty Mentor:	Cheng Tu Hsieh
raculty Mentor.	
Presenter:	Allison Mego, Wildland Management Program, Graduate
Presentation Title:	A Feasibility Study: Reintroduction of Tule Elk in BCCER
Faculty Mentor:	Don Hankins
Presenter:	Rory Ferguson, Psychological Science, Graduate
Presentation Title:	The Characteristics of Distractor Templates Arising from Learned Suppression
Faculty Mentor:	Bo Yeong Won
Judges:	Gerald Cobain, Biology
0	Ryan Perkins, Kinesiology
	Susan Roll, Graduate Studies/Social Work

10-MINUTE PRESENTATION SESSION 6 | SCIENCE BUILDING, ROOM 125

Presenter:	Ashley Macias, Social Work, Graduate
Presentation Title:	The Intersection of Identity, Family, Mental Health, and Education in Mexican American Adolescents
Faculty Mentor:	Molly Calhoun
Presenter:	Rocci Vizzusi, Psychological Science, Graduate
Presentation Title: Faculty Mentor:	Exploring the Mechanisms Linking Childhood Trauma to Adult Depression Alexander Wong
Presenter:	Hunter Casperson, Interdisciplinary, Graduate
Presentation Title: Faculty Mentor:	Communication Across Divide Aaron Quinn
Presenter:	Arely Saldana, Psychological Science, Graduate
Presentation Title: Faculty Mentor:	Beliefs About End-of-Life Decisions for Companion Animals Linda Kline
Presenter:	Letty Mejia, Social Work, Graduate
Presentation Title: Faculty Mentor:	COVID-19 Lessons Learned from Latin-x Social Workers in Rural Communities Judy Vang
Presenter:	Mariana Joss, Psychological Science, Graduate
Presentation Title:	Effects of Parental Modeling and Social Media on Attitudes Towards Marriage
Faculty Mentor:	Kevin Click
Judges:	Michelle Mussuto, Meriam Library
	Matt Thomas, Political Science and Criminal Justice
	Lori Weber, Political Science and Criminal Justice