



11th Annual

"Meeting of the Minds"

Student Research Symposium

Oral Presentations | Poster Presentations | Art Exhibits



11th Annual "Meeting of the Minds" Student Research Symposium

April 14th, 2022

Hosted by



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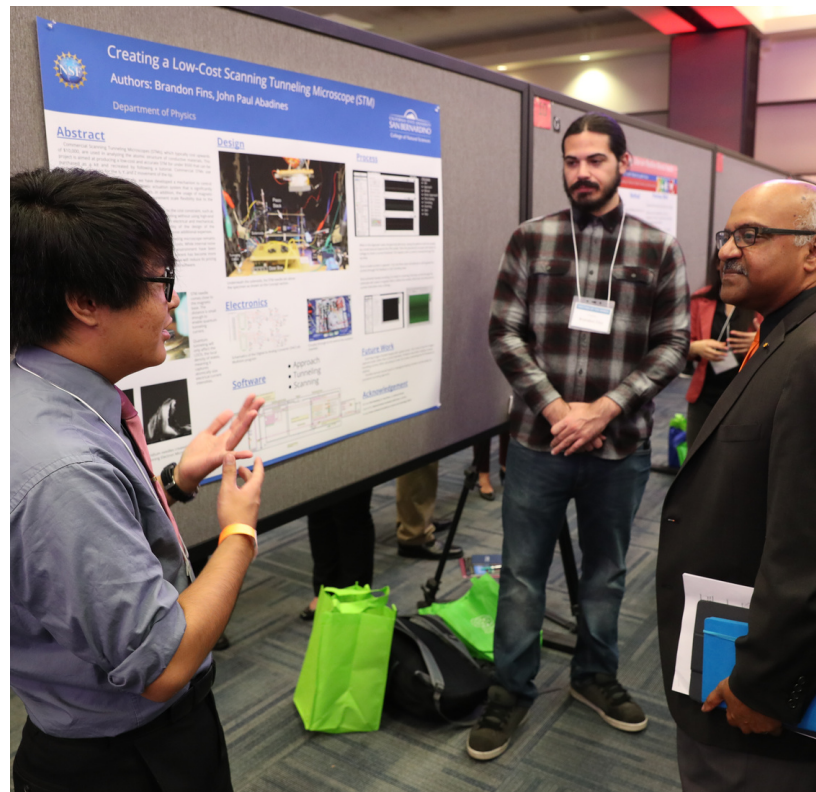
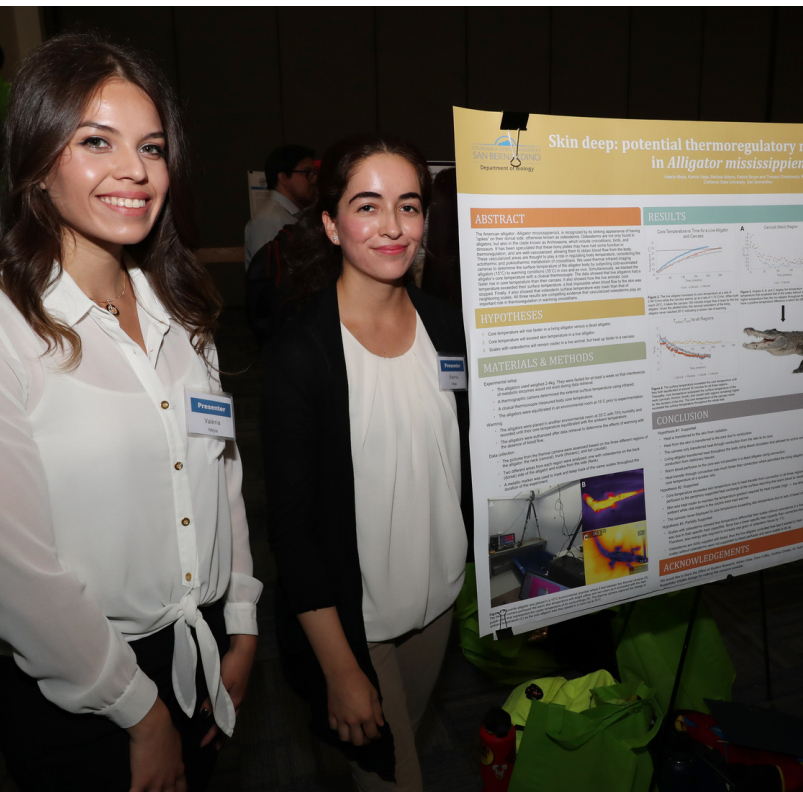
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Message from Dr. Dorota Huizinga



Dorota Huizinga, Ph.D.

Associate Provost for Academic Research &
Dean of Graduate Studies

Dear Colleagues and Students,

Welcome to the 11th annual "Meeting of the Minds" Student Research Symposium!

Over the past 11 years, the "Meeting of Minds" has showcased the research and creative activities of thousands of CSUSB students mentored by hundreds of faculty, and it became CSUSB's flagship event! Many of the past participants moved on to competitive graduate programs and successful professional careers. Like each year, this year's symposium brings together faculty and students from all disciplines across five academic colleges. And despite the challenges posed by the COVID 19 pandemic, more than 142 students are presenting their work in the oral and poster sessions. The students will compete for 20 awards, the winners of which are selected by faculty jurors who will score and rank all presentations. The awardees will be announced at Recognition of Faculty Mentors and Student Researchers on April 15th, 2022. Congratulations to all student presenters and their dedicated faculty mentors who have guided and encouraged students in their research!

I would like to thank President Tomás Morales and Provost Shar McMahan for their unwavering support of student research and our distinguished faculty panelist Drs. Jacob Jones, Fadi Muheidat, and Luba Levin-Banchik presenting on "Research in Action." And many, many thanks to the Office of Student Research for coordinating yet another year's symposium. I am incredibly grateful for their extraordinary work on this and many other student-centered programs.

I hope that you enjoy CSUSB's 11th Annual Meeting of the Minds!

-Dorota Huizinga

Message from Dr. Ryan Keating



Ryan Keating, Ph.D.

Director, Office of Student Research
& Professor of History

Dear Colleagues and Students:

It is with great pleasure that I have the opportunity to welcome you all to the Office of Student Research's (OSR) 11th annual "Meeting of the Minds" Student Research Symposium. For the past decade, this event has served as our office's keynote event—a space for students and their faculty mentors to showcase their research and creative projects—and a place for our campus community to celebrate the long tradition of excellence in research and mentorship at California State University, San Bernardino (CSUSB). This past year has truly tested our campus community in a multitude of ways, as the COVID-19 crisis has continued to impact all aspects of our lives and created seemingly insurmountable challenges. Yet, in spite of this, our students and faculty have persevered, displaying incredible resolve as they found unique ways to continue their research, scholarly, and creative activities in the face of the hardship. This year's "Meeting of the Minds" stands as a testament to their strength and commitment. I am humbled by your achievements, and hope that all of today's presenters take immense pride in the accomplishments showcased here today, and that all of the visitors from the campus community and beyond, applaud our students and their mentors for their continued commitment to excellence in research, scholarly, and creative activities at CSUSB.

I would like to extend my sincerest gratitude to our faculty mentors and volunteers who day-in and day-out go above and beyond in support of their students and the activities of the OSR. The growth of our office over the last decade, and our ability to support students in dynamic and creative ways, is largely made possible by your dedication to student success and the opportunities you provide to our students. Thank you all for your support and attendance today, and I hope you will continue to participate in future OSR events.

- Ryan Keating

Agenda

11th Annual "Meeting of the Minds", Student Research Symposium
April 14th, 2022

11:00 a.m. - 11:15 a.m.

Opening Ceremony

Welcome with Associate Provost, Dr. Dorota Huizinga
Special Remarks with Deputy Provost, Clare Weber
Introduction to Meeting of the Minds with Director, Dr. Ryan Keating

11:15 a.m. - 12:45 p.m.

Poster Presentations

Pfau Library Lawn

12:45 p.m. - 1:00 p.m.

Break

1:00 p.m. - 2:00 p.m.

Roundtable Panel Discussion: Research In Action

SUE Amphitheater

2:00 p.m. - 2:30 p.m.

Break

2:30 p.m. - 6:00 p.m.

Oral Presentations

Virtual, Symposium

Student Presentations I

2:30 p.m. - 4:00 p.m.

Student Presentations II

4:30 p.m. - 6:00 p.m.

Roundtable Panelist: Research in Action



Jacob Jones, Ph.D.

Associate Professor, Psychology

Dr. Jones is an associate professor in the Department of Psychology at CSUSB. He has 40 published articles and chapters on the topic of neuropsychiatric symptoms in Parkinson's disease and other neurodegenerative disorders. He is currently has NIH funding for two projects: one examining the association between microbiome disruptions and cognitive impairment among individuals with Parkinson's disease; and another investigating risk factors of Alzheimer's disease among Native elders.



Fadi Muheidat, Ph.D.

Associate Professor, Computer Science and Engineering

Fadi Muheidat (Ph.D., IEEE Senior Member) is an assistant professor in the School of Computer Science and Engineering at CSUSB. In his lab "Emerging Technologies and Applications", his interests include eldercare technology; assistive living; Internet of Things (IoT) and cyber-physical systems, architecture, communication, and security; High-Performance Computing, Engineering Educations, and the use of Extended Reality (XR) in Education



Luba Levin-Banchik, Ph.D.

Associate Professor, Political Science

Dr. Luba Levin-Banchik is Assistant Professor in the Department of Political Science at CSUSB. She specializes in international relations, global and national security, foreign policy crises, and terrorism. Her expertise is also in the Scholarship of Teaching and Learning with a focus on international relations simulations. Dr. Levin-Banchik is the 2021-2022 President of the International Studies Association West (ISA-West).

Outstanding Graduate Student Research & Creative Activities Awardee



Melody Robinson

Major: Psychology

Mentor: Dr. Christina Hassija

Melody (she/her) is an alumna of Crafton Hills College and California State University, San Bernardino, and she is currently completing her master's in Psychological Science. Her master's thesis is focused on women's experiences with sexual violence, including their feelings of self-blame, shame, and mental health difficulties. Much of her research is conducted within diverse areas such as LGBTQ+ community health, mental health treatment equity, and trauma experiences within at-risk communities. She also has volunteer experience working with foster and special needs youth and as a sexual assault crisis advocate within San Bernardino County. At a university level, she presently serves as the Institutional Review Board's student representative, tutors writing within the College of Social and Behavioral Sciences, and teaches two lab sections for undergraduate psychological statistics. She hopes to continue research to help inform trauma services within marginalized communities who have historically faced difficulty accessing adequate treatment and support. She is also interested in conducting research that explores survivors' feelings of shame and self-compassion in order to promote healing after violence. As both a researcher and community advocate, she hopes to combat the pervasive stigma still attributed to sexual violence today. She will be continuing her education as a clinical psychology Ph.D. student at the University of Tulsa in Fall 2022.

Outstanding Undergraduate Student Research & Creative Activities Awardee



Andres Garcia Garcia

Major: Public Health

Mentor: Dr. Neal Malik & Dr. Kassandra Harding

Andres is a senior in the department of Health Science and Human Ecology majoring in Public Health. He has been a part of five research labs during his undergrad career, between CSUSB and Johns Hopkins University. Where he will be attending for his graduate degree in Master of Health Science in Epidemiology for Infectious Diseases. With overall aspiring goal to attain a Ph.D. in this field and essentially become a disease detective, or formally known as an EIS Agent for the CDC. His favorite cartoon growing up was Tom and Jerry, his favorite animal is a hedgehog, and he loves reading horror novels.

Faculty Jurors & Volunteers

Thank you to all the faculty jurors and volunteers who contributed their time and efforts to make Research Week a success.

Poster Presentations

College of Arts & Letters

Dr. Esteban Cordoba
 Dr. Gregory Gondwe
 Dr. Meghana Varayuri
 Dr. Thomas Corrigan

College of Business & Public Administration

Dr. Mahima Pulgaonkar

College of Education

Dr. Edwin Hernandez
 Dr. Nicole Klimow
 Dr. Tiffany Bookman

College of Natural Sciences

Dr. Amir Ghasemkhani
 Dr. Claire Todd
 Dr. Jeffrey Truong
 Dr. Joyce Pham
 Dr. Lynn Scow
 Dr. Sarah Dunn
 Dr. V.N.Pradeep Ambati

College of Social & Behavioral Sciences

Dr. Brittany Bloodhart
 Dr. Jacob Jones
 Dr. Karen Robinson
 Dr. Leslie Amodeo
 Dr. Manpreet Dhillon Brar
 Dr. Mary-Ellen Garcia
 Dr. Miranda McIntyre
 Dr. Reveka Shteynberg
 Dr. Yawen Li

Oral Presentations

College of Arts & Letters

Dr. Esteban Cardoba
 Dr. Shafiq Rahman

College of Business & Public Administration

Dr. Victoria Seitz

College of Natural Sciences

Dr. Claire Todd
 Dr. David Maynard
 Dr. Dorothy Chen
 Dr. Henrietta nwamu
 Dr. Hani Aldirawi
 Dr. Jason Burke
 Dr. Jennifer Jin
 Dr. Jeremy Mallari
 Dr. Kasey Harding
 Dr. Laura Newcomb
 Dr. Mahmood Nikbakhtzadeh
 Dr. Pradeep Ambati
 Dr. Rajrani Kalra
 Dr. Sang Ouk Wee
 Dr. Sastry Pantula
 Dr. Sen Padilla
 Dr. Shumei Yang
 Dr. Wagner do prado
 Dr. Xiaoxu Jiang
 Dr. Zhaojing Chen

College of Social & Behavioral Sciences

Dr. Amy van Schagen
 Dr. Arianna Huhn

Dr. Ken Shultz
 Dr. Luba Levin Banchik
 Dr. Manpreet Dhillon Brar
 Dr. Michael Karp
 Dr. Michael Lewin
 Dr. Nicole Collier
 Dr. Reveka Shteynberg
 Dr. Zachary Powell

Master's Student Jurors

Alesia Aaron
 Joyce Forest
 Melody Robinson
 Reina Alvarado Diaz

Volunteers

Aaron Baraiya
 Anahi
 Autumn Hudson
 Bhavish Balsara
 Brazil Jefferson
 Cassandra Gundo
 Eric Cosme
 Gabriela Gonzalez
 Istiake Ahmed Abid
 Lily Rodriguez
 Lindsey Corado
 Machel Walker
 Mahima Pulgaonkar
 Manuel Pina
 Mariano Peinado
 Marina Flores
 Mathew Alvarez
 Melissa Alvarado

Michelle Olayo
 Nicole Lancaster
 Nitheesha Reddy
 Paola Uribe
 Patrick Shin
 Priscilla Diaz
 Rylee Huntoon
 Sabrina
 Saily Guerrero
 Sairaj Bhargav
 Yalamanchili
 Sakshi Nakashe
 Salma Khan
 Sanath Hiremath
 Sandra Castillo
 Vanessa Cano
 Xitlalli Loza
 Yuriko Curiel

Poster Presenters

College of Arts & Letters

Ariel Newell

Faculty Mentor: Dr. Mariam Betlemidze

Major: Communication Studies

Title: *Serena Williams responds to the catsuit controversy: An Intersectional and Cyberfeminist Interpretation*

Esperanza Martinez

Faculty Mentor: Dr. Thomas Corrigan

Major: Communication Studies

Title: *Organizing and assessing communication skills training in healthcare*

Jeniffer Lopez

Faculty Mentor: Dr. Kate Simonian

Major: English Creative Writing

Title: *Diversity in the Creative Classroom*

Malika Bratton

Faculty Mentor: Dr. Mariam Betlemidze

Major: Communication Studies

Title: *Black Women Struggles in the Academy*

Megan Haynes

Faculty Mentor: Dr. Kate Simonian

Major: English Creative Writing

Title: *Ooops All Zombies! : How Evolutionary Psychology Reveals The Walking Dead's Problematic Depiction of Gendered Behavior*

Naim Aburaddi

Faculty Mentor: Dr. Ahlam Muhtaseb

Major: Communication Studies

Title: *Censorship and Disruptions: The Case of Palestinian Digital Resistance*

College of Education

Allison Skokos

Faculty Mentor: Dr. Bret Nelson

Major: School Psychology Ed.S

Title: *Technology and Positive Mental Health in Young Adults*

MacKenzie Feeken

Faculty Mentor: Dr. Roderick O'Handley

Major: School Psychology

Title: *A Review of Studies Focusing on Training Teachers to Implement Naturalistic Interventions and Discrete Trial Training with Students with ASD*

Maria Rivas

Faculty Mentor: Dr. Jacqueline Romano

Major: Educational Leadership

Title: *Understanding Bilingual Latino Parent Involvement: Addressing the Role of Culture in Involvement*

Olivia Hart

Faculty Mentor: Dr. Jacqueline Romano

Major: Educational Leadership

Title: *Hidden in Plain Sight: Hearing Children of Deaf Parents*

Oscar Ruiz

Faculty Mentor: Dr. Roderick O'Handley

Major: Special Education, Rehabilitation & Counseling

Title: *Training School-based Change Agents How to Implement Stimulus Preference Assessments: A Systematic Review of the Literature*

College of Natural Sciences

Aaron Keniston

Faculty Mentor: Dr. Nicole Bournias-Vardiabasis

Major: Biology

Title: *Detection of Stemness and EMT in Response to Radiation in Glioblastoma and Ovarian Cancer Cells*

Adam Espinoza & Cameron Fraser

Faculty Mentor: Dr. Laura Newcomb

Major: Biology

Title: *Generation of Feline and Cheetah Cell Lines to Study Feline Coronavirus*

Alejandra Ramirez

Faculty Mentor: Dr. Sarah Dunn

Major: Kinesiology

Title: *Impact of Meal Planning on Physical Health and Functional Ability*

Andrea Hughes

Faculty Mentor: Dr. Jason Ng

Major: Kinesiology

Title: *Systematic Observation of Mask Adherence and Physical Distancing in a Public Recreational Setting in Response to Public Policy*

Apolo Ibanez-Rincon & Haleigh Smith

Faculty Mentor: Dr. Angela Horner

Major: Biology

Title: *Musculoskeletal response to exercise training in High Runner (HR) mice*

Auguste Torres & Maurice Cruz

Faculty Mentor: Dr. Nicole Dabbs

Major: Kinesiology

Title: *Relationship Between Strength and Power in Elite Short Track Speed Skaters*

Brandon Madrid

Faculty Mentor: Dr. Sarah Dunn

Major: Kinesiology

Title: *College Students Sleep and Quality of Life*

Breanna Ramirez & Sara Sandoval

Faculty Mentor: Dr. Tomasz Owerkowicz

Major: Biology

Title: *Do Crocodylians Have an Air-conditioning Unit in Their Skulls? Experimental Test of Purported Thermoregulatory Function of the Dorsal Temporal Fenestrae in the American Alligator*

Chi Duong

Faculty Mentor: Dr. Kimberly Cousins

Major: Biochemistry

Title: *Ferroelectric Crystal Growing*

Cody Atkins

Faculty Mentor: Dr. Laura Newcomb

Major: Biology

Title: *Peptide Inhibition of Influenza A Replication*

Cora Anderson

Faculty Mentor: Dr. Jason Ng

Major: Kinesiology

Title: *Observation of Outdoor Physical Activity, Mask Adherence, and Physical Distancing Behaviors Across Seasonal Changes In A Desert Region*

Daniel Zecena Osorio

Faculty Mentor: Dr. Nicole Bournias-Vardiabasis

Major: Biology

Title: *Effect of Long Pepper (*Piper longum*) and Tumeric (*Curcuma longa*) on the Lifespan and Healthspan of Transgenic A β -42 *Drosophila melanogaster**

David Murillo

Faculty Mentor: Dr. Renwu Zhang

Major: Chemistry

Title: *Synthesis of Triptycene-Based Microporous Polymers (TMP) for Hydrogen Storage*

Dillon Darrow

Faculty Mentor: Dr. Guillermo Escalante

Major: Kinesiology

Title: *Dead Bodybuilders Speaking from the Heart: An Analysis of Autopsy Reports of Bodybuilders that Died Prematurely*

Gonzalo Perez Maldonado

Faculty Mentor: Dr. Kimberly Cousins

Major: Chemistry

Title: *D-4 and it Application Towards a Selective Lithium Ion Detector*

Gustavo Donis-Castro

Faculty Mentor: Dr. Sarah Dunn

Major: Kinesiology

Title: *College Student Stress Impacts Student's Motivation to Exercise*

Jasmine Mitchell

Faculty Mentor: Dr. Monideepa Becerra

Major: Public Health

Title: *Pandemic and Sleep Health: A Cross-Sectional Analysis Among College Students*

Jazmin Ulloa

Faculty Mentor: Dr. Sarah Dunn

Major: Kinesiology

Title: *Physical Activity in Relation to Academic Stress*

Jeffrey Truong

Faculty Mentor: Dr. Monideepa Becerra

Major: Public Health

Title: *Mental Health Burden Among College Students during COVID-19 Pandemic: A Cross-Sectional Study.*

Johanna Franco-Lemus

Faculty Mentor: Dr. Sarah Dunn

Major: Kinesiology

Title: *Physical Activity and Quality of Life*

Karen Coronado

Faculty Mentor: Dr. Kimberley Cousins

Major: Chemistry

Title: *Seeking Novel Piezoelectric Crystals*

Kelley Giron

Faculty Mentor: Dr. Jennifer Alford

Major: Environmental Sciences

Title: *Post-Wildfire Effects on Headwater Streams in the San Bernardino National Forest*

Luvina Ron

Faculty Mentor: Dr. Renwu Zhang

Major: Chemistry

Title: *Polyvinylidene difluoride (PVDF) composite films modified with croconic acid*

Michelle Hernandez

Faculty Mentor: Dr. Nicole Bournias-Vardiabasis

Major: Biology

Title: *The Effects of Mild and Severe Traumatic Brain Injury on Transgenic Female A β -42 and 00C Drosophila melanogaster*

Miles Valencia

Faculty Mentor: Dr. Angela Horner

Major: Biology

Title: *The effects of different exercise regimes on tendon remodeling in mice (Mus musculus)*

Noelle Roddam & Kalinah Winston

Faculty Mentor: Dr. Becky Taly

Major: Biology

Title: *What Ingredients Contribute to the Toxicity of Glyphosate-Based Herbicides, in a Drosophila melanogaster model?*

Oscar Gonzalez Aviles

Faculty Mentor: Dr. Kimberly Cousins

Major: Chemistry

Title: *Running VASP Calculations to Find Ferroelectric Properties of Hydrogen Bonded Co-Crystals*

Raphaella Melikian

Faculty Mentor: Dr. Nicole Bournias-Vardiabasis

Major: Biology

Title: *Anti-Neuroinflammatory Effects of a Fish Oil Omega 3 Complex on the Lifespan and Healthspan of Transgenic A β -42 Drosophila melanogaster*

Rey Zevala & I Gusti Ngurah Raka Bhaskara

Faculty Mentor: Dr. Jeremy Mallari

Major: Biochemistry

Title: *Development and Optimization of Selective Click Chemistry Probes to Investigate the Function of Falcilysin*

Rushil Gumasana

Faculty Mentor: Dr. Monideepa Becerra

Major: Public Health

Title: *Sleep Health among College Students*

Tanya Alvarez

Faculty Mentor: Dr. Sarah Dunn

Major: Kinesiology

Title: *Self-Efficacy for Exercise and the Influence it has on Quality of Life*

Tony Lee

Faculty Mentor: Dr. Monideepa Becerra

Major: Public Health

Title: *Pandemic-related caregiver burden among public health workforce: A Mixed-Methods Analysis.*

Velia Alcalá

Faculty Mentor: Dr. Nicole Bournias-Vardiabasis
Major: Biology
Title: *The Effects of Mild and Severe Traumatic Brain Injury on Transgenic Female A β -42 and 00C Drosophila melanogaster*

College of Social & Behavioral Sciences

Alejandro Garcia Gandara

Faculty Mentor: Dr. Brittany Bloodhart
Major: Psychology
Title: *Predictors of Continued Engagement in Social Movements: Evaluating Risk and Benefits*

Alexandra Tejada, Dominic Garcia & Jessica Bezenah

Faculty Mentor: Dr. Leslie Amodeo
Major: Psychological Sciences
Title: *Adolescent alcohol consumption in rats leads to sex-dependent differences in disinhibitory and depressive-like behaviors in adulthood*

Alyssa Florville

Faculty Mentor: Dr. Mark Agars
Major: Psychology
Title: *COVID-19's Impact on Motherhood*

Alyx Duckering

Faculty Mentor: Dr. Michael Lewin
Major: Clinical/Counseling Psychology
Title: *The Relationship Between COVID-19 Stress, Psychological Inflexibility, and Psychological Well-Being*

Angelique Melendrez

Faculty Mentor: Dr. Donna Garcia
Major: Psychology
Title: *Virtue Signaling: Do you really care?*

Ashley Wicochea

Faculty Mentor: Dr. Michael Lewin
Major: Psychological Science
Title: *Complicated Grief, Depression, and Well-Being: The Role of Psychological Inflexibility and Social Support*

Bethanie Gonzalez

Faculty Mentor: Dr. Maria Santos
Major: Psychology
Title: *The Role of Language Barriers in Treatment Disengagement Among Latinos with First Episode Psychosis*

Brianna Gutierrez

Faculty Mentor: Dr. David Chavez
Major: Psychology
Title: *Evaluating an SEL Curriculum's Impact on Social Awareness and Emotional Distress in Children*

Catalina Salazar

Faculty Mentor: Dr. Donna Garcia
Major: Psychology
Title: *The Bystander Effect and Prevention Education: A Review of What Fosters and Prevents Bystander Intervention When Witnessing Racial Microaggressions in America*

Ceydel Barragan

Faculty Mentor: Dr. Maria Santos
Major: Psychology
Title: *Stigma and Treatment Engagement among Latino First Episode Psychosis Clients*

Clarissa Montalvo

Faculty Mentor: Dr. Brittany Bloodhart
Major: Psychological Science
Title: *Marianismo: Challenging Traditional Mexican-American Gender Roles for Women*

David Lopez Sanchez, Jordan Taylor & Diego Gonzalez

Faculty Mentor: Dr. Cynthia Crawford
Major: Psychological Science
Title: *Effects of repeated fentanyl treatment on the locomotor activity of adolescent and adult rats*

Desiree Leon

Faculty Mentor: Dr. Hideya Koshino
Major: Psychology
Title: *Breath Counting as a Measure of Sustained Attention in Mindfulness Meditation and its Correlation with Heart Rate Variability (HRV)*

Dianna Solis

Faculty Mentor: Dr. Christina Hassija

Major: Biology Psychology

Title: *The Quality of Endometriosis Health Care Treatment Impact on Women's Quality of Life*

Dominic Garcia, Jessica Bezenah & Alexandra Tejada

Faculty Mentor: Dr. Leslie Amodeo

Major: Psychological Sciences

Title: *Adolescent alcohol consumption is correlated with probabilistic discounting and future drinking in rats*

Emily Connard

Faculty Mentor: Dr. Kelly Campbell

Major: Psychological Science

Title: *Online Dating Deception and the Role of Dark Factor Traits*

Erika Kelley, Miguel De Avila & Chase Hanson

Faculty Mentor: Dr. Kate Liszka

Major: History

Title: *3D Modelling a 4000 Year Old Ancient Egyptian Mine and Settlement*

Erika Kelley

Faculty Mentor: Dr. Kate Liszka

Major: History

Title: *Coping with Trauma: Evidence that suggests the ancient Egyptians used Transpersonal psychology to cop with birth related trauma*

Frank Nieblas

Faculty Mentor: Dr. Michael Lewin

Major: Psychological Science

Title: *Psychological Distress & Problematic Video Gaming: The Role of Psychological Inflexibility and Emotion Dysregulation*

Guadalupe Romero

Faculty Mentor: Dr. Jason Reimer

Major: Biological Psychology

Title: *Relationship Between Modes of Cognitive Control and BIS Scale*

Jaime Castro

Faculty Mentor: Dr. Jose Munoz

Major: Anthropology

Title: *The Role of Cultural Practices As a Coping Mechanism Among Native Americans During the COVID-19 Pandemic*

Jasmin Escalante

Faculty Mentor: Dr. Christina Hassija

Major: Psychology

Title: *The Role of Cultural Practices As a Coping Mechanism Among Native Americans During the COVID-19 Pandemic*

Joseph Toland

Faculty Mentor: Dr. David Chavez

Major: Psychology

Title: *The Influence of Social-Emotional Learning on Psychological Resilience Development in Pre-Teens*

Kenya Luna

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Subjective Cognitive Complaint utilized to detect Mild Cognitive Impairment in Parkinson's patients*

Lea Hemphill & Yenny Valenzuela

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Synergistic Effects of Depression and Aging on Cognitive Decline in Early Parkinson's Disease*

Margarita Bracamontes & Benjamin Johnson

Faculty Mentor: Dr. Herbert Shon

Major: Social Work

Title: *Social Work Student's Coping Strategies During the Covid-19 Pandemic*

Mengxuan Zhang

Faculty Mentor: Dr. Miranda McIntyre

Major: Psychological Science

Title: *The Effect of Culture and Individual Differences in Career Motivation*

Nathaly Ramos, Kabba Barua & Ruby Trujillo

Faculty Mentor: Dr. Luba Levin-Banchik

Major: Political Science

Title: *Playing the Games of Politics: Goals, Achieved Skills, and Policy Relevance of Simulations in International Relations*

Nicole Kaleinani Tabuena, Sarah Aguirre & Alejandro Garcia

Faculty Mentor: Dr. Brittany Bloodhart

Major: Psychological Sciences

Title: *Addressing Sexual Harassment in Field Research and Its Influences on Job Satisfaction*

Perla Esparza-Partinico

Faculty Mentor: Dr. Eugene Wong

Major: Psychology

Title: *Computer cognitive training effects on working memory*

Ronnie Ray De Leon

Faculty Mentor: Dr. Christina Hassija

Major: Psychology

Title: *Social Support, PTSD Symptom Severity, and Substance Use among Sexual Assault Survivors*

Rosalia Casas

Faculty Mentor: Dr. Ismael Diaz

Major: Psychology Industrial/Organizational

Title: *The effects of workplace discrimination (age/sex-based) on employee mental health, job performance, and work-life balance.*

Rosemary Rojas

Faculty Mentor: Dr. Brittany Bloodhart

Major: Psychological Sciences

Title: *One of Us: Monoracial Latinx Perspectives of Multiracial Latinx-White Individuals*

Shannon Lopez, Cheyenne Morales, Cassandra Cavazos & Bryan Alvarez

Faculty Mentor: Dr. Dionisio Amodeo

Major: Biological Psychology

Title: *Effects of 8-OH-DPAT on Behavioral Flexibility in BTBR Mice*

Shantel Ortega & Candace Watts

Faculty Mentor: Dr. Deirde Lanesskog

Major: Social Work

Title: *Former Foster Youth Become Child Welfare Workers*

Simeone Miller

Faculty Mentor: Dr. Daniel Palm

Major: Political Science

Title: *The Melian Dilemma of Post-9/11 US Foreign Policy*

Viviana Alvarez Rodriguez

Faculty Mentor: Dr. Pedro Santoni

Major: History

Title: *Collective Memory of The Nicaraguan Revolution In Contemporary Student And Youth Protest*

Xavier Resendez

Faculty Mentor: Dr. Ryan Keating

Major: History

Title: *Race and Labor in Late 19th Century California*

Yenny Valenzuela

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Predictors of Depression in Different Subgroups of Parkinson's Disease: A Neuroimaging Study*

Art Exhibits

Melanie Asalde-Smith

Faculty Mentor: Dr. Alison Petty Ragguette

Major: Studio Art

Title: *"FUTURE PROOF" Art Exhibition*

Oral Presentations

Session 1

Time: 2:30 pm - 4:00 pm
Class Level: Undergraduate
Category: Behavioral & Social Sciences

- 2:30 Josephine Cabrera**
Faculty Mentor: Dr. Kelly Campbell
Major: Psychology
Title: *Catfishing Case Studies: Victims and Perpetrators of Online Deceptive Romance*
- 2:50 Darla Rubinos**
Faculty Mentor: Dr. Hareem Khan
Major: Global Studies
Title: *Transnational Aesthetic Practices and Racialized Subjectivities in the Ethnic Beauty and Wellness Industries in Los Angeles*
- 3:10 Dante Amodeo**
Faculty Mentor: Dr. Kelly Campbell
Major: Psychology
Title: *Couple Maintenance Behaviors: A Comparison of Competing Constructs*
- 3:30 Eugene Antonov**
Faculty Mentor: Dr. Mariam Betlemidze
Major: Strategic Communication
Title: *Machine Morality for the Benefit of Society*
- 3:50 Stepfanie Alfonso**
Faculty Mentor: Dr. Julie Taylor
Major: Communication
Title: *Pimps: Identity and Agency Within a Stigmatized Industry*

Session 2

Time: 2:30 pm - 4:00 pm
Class Level: Undergraduate
Category: Biological and Agricultural Sciences

- 2:30 Yelissa Fuentes**
Faculty Mentor: Dr. Mahmood Nikbakhtzadeh
Major: Environmental Health Science
Title: *The Effect of Glyphosate on The Larval Development of Culex quinquefasciatus (Diptera: Culicidae)*
- 2:50 Noelle Roddam & Kalinah Winston**
Faculty Mentor: Dr. Becky Talyn
Major: Biology
Title: *What Ingredients Contribute to the Toxicity of Glyphosate-Based Herbicides, in a Drosophila melanogaster model?*
- 3:10 Manuel Madrigal, Kayla De La Paz & Breana Quintana**
Faculty Mentor: Dr. Tomasz Owerkowicz
Major: Biology
Title: *Effects of Exercise on Pulmonary Bypass Shunting in Crocodilians*
- 3:30 Maggie Santos**
Faculty Mentor: Dr. Becky Talyn
Major: Biology
Title: *Hormonal Effects of Glyphosate Based Herbicides on Drosophila melanogaster*

Session 3

Time: 2:30 pm - 4:00 pm
Class Level: Undergraduate
Category: Education

- 2:30 Cassidy Jessup**
Faculty Mentor: Dr. Kathryn Ervin
Major: Theatre Arts
Title: *Teaching Musical Theatre*
- 2:50 Jessica Swan & Savannah Hull**
Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Psychology
Title: *College Students Mental Health in COVID-19*
- 3:10 Anabell Ramos**
Faculty Mentor: Dr. Roderick O'Handley
Major: Psychology
Title: *Variables Linked with School Psychologists' Use of Empirically Supported Social Skills Training Practices with Students with Autism*
- 3:30 Isabella Cantu**
Faculty Mentor: Dr. Jose Munoz
Major: Sociology
Title: *A Sociological Analysis of Education in the Inland Empire During the COVID-19 Pandemic*

Session 4

Time: 2:30 pm - 4:00 pm
Class Level: Undergraduate
Category: Health; Nutrition; & Clinical Sciences

- 2:30 Bethany Parker & Taylor Thompson**
Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Communication and Arabic
Title: *Food Insecurity and Racial Disparities As Affected by COVID-19*
- 2:50 Ashley Maayah**
Faculty Mentor: Dr. Guillermo Escalante
Major: Kinesiology
Title: *The Underutilization of Physical Therapy in Lower-class, Minority Families.*
- 3:10 Dalia Arroyo & Natalie Martinez**
Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Biology
Title: *Food Insecurity and Health at CSUSB*
- 3:30 Carmen Joy Maamo & Delilah Gbur**
Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Pre-Nursing
Title: *Disparities of Maternity Care in the Inland Empire*
- 3:50 Jamilia Howell & Isabel Joya**
Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Environmental Studies
Title: *Unsafe Source Water in San Bernardino County*

Session 5

Time: 2:30 pm - 4:00 pm
Class Level: Undergraduate
Category: Interdisciplinary

2:30 Kailyn Alari

Faculty Mentor: Dr. Amanda Rymal
Major: Kinesiology
Title: *How to Recruit Female Sport Officials: A Qualitative Exploration*

2:50 Jason Velasco

Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Business Administration
Title: *Two Cities Built Environment and their Effects on Health*

3:10 Nicholas Nasr & Kailey Ladnier

Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Chemistry
Title: *Spaces for Rainbows in a Black and White World*

3:30 Jacqueline Monteon

Faculty Mentor: Dr. Fabian Borges Herrero
Major: Political Science and History
Title: *Socialism is Back and Younger Than Ever: Examining Socialism's Popularity Amongst Young Americans*

Session 6

Time: 4:30 pm - 6:00 pm
Class Level: Undergraduate
Category: Interdisciplinary

4:30 Emily Preciado & Yaraseth Serrato

Faculty Mentor: Dr. Ethel Nicdao & Dr. Nicole Henley
Major: Biology
Title: *How Environment Can Affect Health*

4:50 Matthew Roe

Faculty Mentor: Dr. Cynthia Crawford
Major: Biological Psychology
Title: *The Effects of Oxytocin on Amphetamine-Induced Conditioned Place Preference*

5:10 David Murillo

Faculty Mentor: Dr. Renwu Zhang
Major: Chemistry
Title: *Synthesis of Triptycene-Based Microporous (TMP) Polymers for use in Hydrogen Storage*

5:30 I Gusti Ngurah Raka Bhaskara & Rey Zavala

Faculty Mentor: Dr. Jeremy Mallari
Major: Biochemistry
Title: *Development and Optimization of Selective Click Chemistry Probes to Investigate the Function of Falcilysin*

Session 7

Session 8

Time: 4:30 pm - 6:00 pm
Class Level: Undergraduate
Category: Behavioral & Social Sciences

Time: 4:30 pm - 6:00 pm
Class Level: Undergraduate
Category: Behavioral & Social Sciences

4:30 Matthew Guerra

Faculty Mentor: Dr. Paloma Villegas
Major: Sociology
Title: *"It comes and goes": A Study on Food Insecurity at California State University, San Bernardino*

4:50 Simeone Miller

Faculty Mentor: Dr. Daniel Palm
Major: Political Science
Title: *The Melian Dilemma of Post-9/11 US Foreign Policy*

5:10 Lorraine Lopez

Faculty Mentor: Dr. Rajrani Kalra
Major: Intelligence & Crime Analysis
Title: *Exploring Urban Blight in California: A Geospatial Analysis*

5:30 Nesreen Habbas & Keya Soles

Faculty Mentor: Dr. Arianna Huhn
Major: Sociology
Title: *Unmasking The Past*

4:30 Angelique Melendrez

Faculty Mentor: Dr. Donna Garcia
Major: Psychology
Title: *Virtue Signaling: Do you really care?*

4:50 Haley Potter

Faculty Mentor: Dr. Christopher Hill
Major: Biological Psychology
Title: *Psychological Stressors of a Professional Motorsport Athlete: A Case Study*

5:10 Odalys Reynoso Diaz

Faculty Mentor: Dr. John Clapper
Major: Psychology
Title: *Mindfulness Meditation: Breath Counting Task (BCT) and its benefits to mental health*

5:30 Xavier Espinoza & Sally Nguyen

Faculty Mentor: Dr. Benjamin Becerra
Major: Cybersecurity
Title: *PASS Apnea: Development of a Novel Automated Prediction Tool for Pediatric Obstructive Sleep Apnea Using Electronic Health Records*

Session 9

Time: 4:30 pm - 6:00 pm
Class Level: Undergraduate

Category: Health, Nutrition, and Clinical Sciences

- 4:30** **Andrew Andraos, Michael Torres , Mariesha Islas, Jacob Echols & Daniela Ornelas**
Faculty Mentor: Dr. Guillermo Escalante
Major: Kinesiology
Title: *The Effects of Bioimpedance Spectroscopy Electrode Placement on the Reliability an Accuracy of Body Composition and Body Fluid Measurements*
- 4:50** **Anthony Castro**
Faculty Mentor: Dr. Laura Newcomb
Major: Biology
Title: *Conserved Targets to Prevent Emerging Coronaviruses*
- 5:10** **Michael Torres & Mariesha Islas & Jacob Echols**
Faculty Mentor: Dr. Guillermo Escalante
Major: Kinesiology
Title: *Analysis of the Efficacy, Safety, and Cost of Alternative Forms of Creatine Available for Purchase Online: Do Advertised Claims Match the Scientific Evidence?*
- 5:30** **Jennifer Tran**
Faculty Mentor: Dr. David Marshall
Major: Biology
Title: *IGF-II Regulation Of Magmas In TNBC Tissues and CRL-2335 Cells*
- 5:50** **Dianna Solis**
Faculty Mentor: Dr. Christina Hassija
Major: Biological Psychology
Title: *The Quality of Endometriosis Health Care Treatment Impact on Women's Quality of Life*

Session 10

Time: 4:30 pm - 6:00 pm
Class Level: Graduate
Category: Interdisciplinary

- 4:30** **Alejandro Garcia Gandara**
Faculty Mentor: Dr. Brittany Bloodhart
Major: Psychology
Title: *Predictors of Continued Engagement in Social Movements: Evaluating Risk and Benefits*
- 4:50** **Ivette Jimenez**
Faculty Mentor: Dr. Nerea Marteache
Major: Criminal Justices
Title: *International Human Trafficking in the Americas*
- 5:10** **Marlee Uggen & Jamie Valdez**
Faculty Mentor: Dr. Jane Chin-Davidson
Major: Studio Arts
Title: *Art In Action*
- 5:30** **Lesley Vega**
Faculty Mentor: Dr. Nerea Marteache Solans
Major: Criminal Justice
Title: *Personal and Environmental Factors of Familicide*

Session 11

Time: 4:30 pm - 6:00 pm

Class Level: Graduate

Category: Biological and Agricultural Sciences

4:30 Timothy Schulte

Faculty Mentor: Dr. James Ferrari

Major: Biology

Title: *Potential Fitness Trade-offs of Elevated Esterase Activity Associated with Insecticide Resistance in Mosquitoes*

4:50 Michelle Hernandez

Faculty Mentor: Dr. Nicole Bournias-Vardiabasis

Major: Biology

Title: *The Effects of Mild and Severe Traumatic Brain Injury on Transgenic Female A β -42 and OOC *Drosophila melanogaster**

5:10 David Saldivar

Faculty Mentor: Dr. Laura Newcomb

Major: Biology

Title: *Designing Screens to Identify Inhibitors of Influenza Viral Ribonucleoprotein (vRNP), an Essential Conserved Complex and Promising Antiviral Target*

5:30 Adam Espinoza & Cameron Fraser

Faculty Mentor: Dr. Laura Newcomb

Major: Biology

Title: *Generation of Feline and Cheetah Cell Lines to Study Feline Coronavirus*

Session 12

Time: 4:30 pm - 6:00 pm

Class Level: Graduate

Category: Interdisciplinary

4:30 Lana Klaib

Faculty Mentor: Dr. Bradley Spence

Major: Studio Art and Kinesiology

Title: *Recreating Renaissance Methods and Materials*

4:50 Alexia B. Martinez

Faculty Mentor: Dr. Mariam Betlemidze

Major: Communication Studies

Title: *Unapologetically Her: A Nomadic-Intersectional Case Study Analysis on Lizzo and Jillian Michaels*

5:10 Jocelin Monge

Faculty Mentor: Dr. Mariam Betlemidze

Major: Communication Studies

Title: *AOC: Intersectionality in a Field of Politics*

5:30 Ariel Newell

Faculty Mentor: Dr. Mariam Betlemidze

Major: Communication Studies

Title: *Serena Williams responds to the catsuit controversy: An Intersectional and Cyberfeminist Interpretation*

Session 13

Session 14

Time: 4:30 pm - 6:00 pm

Class Level: Graduate

Category: Behavioral & Social Sciences

Time: 4:30 pm - 6:00 pm

Class Level: Graduate

Category: Education

4:30 David Lopez Sanchez, Jordan Taylor & Diego Gonzalez

Faculty Mentor: Dr. Cynthia Crawford

Major: Psychological Science

Title: *Effects of Repeated Fentanyl Treatment on the Locomotor Activity of Adolescent and Adult Rats*

4:50 Rhiannon Rivas

Faculty Mentor: Dr. Jacob Jones

Major: Psychological Science

Title: *Neurodegenerative Markers and Subjective Cognitive Complaint to Better Detect Parkinson's Disease Mild Cognitive Impairment*

5:10 Jessica Bezenah

Faculty Mentor: Dr. Leslie Amodeo

Major: Psychological Sciences

Title: *Early Versus Late Prenatal Escitalopram Exposure Impacts ASD-Related Behaviors in Rats*

5:25 Erika Kelly

Faculty Mentor: Dr. Kate Liszka

Major: History

Title: *Coping with Trauma: Evidence that suggests the ancient Egyptians used Transpersonal Psychology to cope with birth related trauma*

4:30 Jennifer Borton

Faculty Mentor: Dr. Jacqueline Romano

Major: Educational Leadership

Title: *The Role of California Community Colleges in the Language Teacher Preparation Pipeline*

4:50 Rangel Zarate

Faculty Mentor: Dr. Karen Escalante

Major: Educational Leadership

Title: *How Community Colleges Can Advance Filipino American Student Resilience in a COVID- Era*

5:10 Xochilt Trujillo Flores

Faculty Mentor: Dr. Karen Rowan

Major: English and Writing Studies

Title: *Radicalizing First Year Composition*

5:30 Kelley Giron

Faculty Mentor: Dr. Jennifer Alford

Major: Environmental Sciences

Title: *Post-Wildfire Effects on Headwater Streams in the San Bernardino National Forest*

Acknowledgements

California State University, San Bernardino

Office of Student Research

Presented By

Dr. Dorota Huizinga, Associate Provost for Academic Research & Dean of Graduate Studies

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