





# 9th annual "Meeting of the Minds" Student Research Symposium

May 14th, 2020

Hosted by



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# Message from Dr. Dorota Huizinga

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## Dr. Dorota Huizinga

Associate Provost for Academic Research  
Dean of Graduate Studies



May 14th, 2020

Dear Colleagues and Students,

Welcome to the 2020 “Meeting of the Minds” Student Research Symposium, the 9th year of this university-wide event that highlights the outstanding research and creative activities of our students. This event is an opportunity to celebrate and acknowledge the innovation, scholarship, and creativity that our undergraduate and graduate students bring to their research and a place for sharing their discoveries and insights with the campus community.

More than 200 students from across all disciplines are presenting their research or creative projects, and 20 awards will be presented for the best oral and poster presentations during our Recognition of Faculty Mentors and Student Researchers on May 15th.

Thank you to our dedicated faculty mentors who have guided and encouraged students in their research, and to the Office of Student Research for coordinating this year’s symposium. I am truly grateful for these efforts, and I hope that you enjoy this year’s event.

Sincerely,

Dorota Huizinga, Ph.D.

# Message from Dr. Christina Hassija

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## Dr. Christina Hassija

Faculty Director for the Office of Student Research  
Professor of Psychology



May 14th, 2020

Dear Colleagues and Students,

It is with great enthusiasm and pride that I welcome students, faculty, and staff from California State University, San Bernardino to the Office of Student Research's (OSR) 9th annual, "Meeting of the Minds" Student Research Symposium. Each year, "Meeting of the Minds" is our opportunity to showcase the outstanding research and creative projects of our students and their faculty mentors. Due to the exceptional circumstances of this year, I am particularly proud of our students and faculty mentors who have had to rapidly adapt to a constantly changing academic environment and world in order to continue on with their research, scholarly, and creative activities. Many students had to modify their projects and presentations, analyze their data and meet with their mentor virtually, and make other adaptations to ensure their participation in this event. We would like to recognize and share the results of our students' hard work and applaud their commitment to their disciplines and goals.

I sincerely hope that you enjoy this year's presentations, take pride in our students' efforts, and offer them congratulations on their successes. I would also like to extend sincere gratitude to our faculty mentors and volunteers who consistently go above and beyond to support their students and the activities of our office. Our continued growth and success would not be possible without your passion, generosity, and commitment. The success of your students reflects the transference of your knowledge and skills to the next generation of scholars and researchers. Thank you all for your support and attendance today, and I hope you will continue to participate in future OSR events.

Sincerely,

Christina M. Hassija, Ph.D.

# Agenda

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## “Meeting of the Minds” Student Research Symposium

May 14th, 2020

**9:00 a.m. - 10:00 a.m.**

**Guest Speaker**, Justin Birkhoff

*“Cheetah and Humans Sharing a Landscape”*

**11:00 a.m. - 12:00 p.m.**

**Opening Ceremony**

Welcoming Remarks, Dr. Dorota Huizinga

Special Remarks, President Tomás D. Morales

Introduction, Dr. Christina Hassija

Outstanding Undergraduate Student Awardee, Ginny Park

**1:00 p.m. - 4:35 p.m.**

**Oral Presentations**

ForeagerOne’s Symposium for Zoom Links to Live Sessions



# Outstanding Graduate Student Research & Creative Activities Awardee

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## Elizabeth Rahmani

Faculty Mentor: Dr. Jacob Jones



Hi! My name is Elizabeth Rahmani, and I am a second-year graduate student. I am graduating with my master's in clinical counseling (MSCC) this year. I moved to San Bernardino to become a 'Yote after getting my BA in psychology from CSU Long Beach. When I moved here two years ago, I had no idea I would have so many opportunities to work towards achieving my dreams. I currently work with high-school students as a marriage and family therapist trainee, and I teach Personal and Social Adjustment, an undergraduate psychology course (hi class!). After starting my master's at CSUSB, I have also discovered my love for research.

I owe all my accomplishments to my amazing mentor, Dr. Jacob Jones. Dr. Jones saw potential in me during my first year in the clinical counseling program and encouraged me to do research. With Dr. Jones' patience, encouragement, and guidance, I went from having zero research experience to presenting research at multiple research competitions and conferences and co-authoring 2 published research papers. I have a strong interest in the underlying neurological causes of mental illness, and it is a privilege working with Dr. Jones researching Parkinson's disease, mood disorders, and cognitive impairment.

I am inspired by the wonderful MSCC faculty. Due to their influence, my future goals involve obtaining a PhD in clinical psychology, continuing research, teaching, and working in clinical settings with various mental health populations. With the amazing experiences and opportunities CSUSB gave me, I have confidence that I can one day reach these goals.

I would like I would like to thank Dr. Jones for being an incredible mentor, for all the opportunities he has given me, and for nominating me for this award. I would also like to thank Holly Timblin for working with me for hours on end on our research presentations this year. Holly is an amazing grad student in the MAPS program, and I couldn't have done our presentations without her. I would like to thank the Office of Student Research for working closely with me for the state-wide CSU Student Research Competition, and for the amazing honor of receiving the Outstanding Graduate Student Researcher Award.

Lastly, I would like to thank the clinical counseling faculty, and my wonderful cohort. My MSCC family encourages me to push myself even when juggling school, my internship, teaching, writing my thesis, and doing research feels impossible at times. Deciding to get my master's at CSUSB was one of the best decisions I have ever made, and I am so grateful to be a Coyote.

## Outstanding Undergraduate Student Research & Creative Activities Awardee

### Ginny Park

Faculty Mentor: Dr. Sanders McDougall



My name is Ginny Park, and I am a fourth year Biological Psychology major. As a first generation, community college transfer student, I did not know of all the careers and possibilities that research could provide. After transferring to CSUSB, I discovered my purpose. Once completing Introduction to Experimental Psychology with Dr. Yuchin Chien, Biological Psychology with Dr. Dennis Amodeo, and Advanced Experimental Biological Psychology with Dr. Sanders McDougall, I was immediately hooked with Biological Psychology. I needed to know more about the specific neurotransmitters that mediated strong behaviors, such as addiction; I needed to know the relationship between resilience, brain plasticity and the development of addictive behaviors. I needed to know why I reacted through resilience mechanisms, while those close to me relied on drug-use mechanisms. I needed to continue studying the brain.

My mentor, Dr. Sanders McDougall, has been one of my most meaningful influences at CSUSB. As an accomplished academic scholar, fair professor, and patient mentor, Dr. McDougall has continuously encouraged and supported my academic growth as an undergraduate researcher. Dr. McDougall pushed me to reach my potential, and taught me how to be a competitive researcher. My co-mentor, Dr. Cynthia Crawford, has also been one of my biggest influences at CSUSB. Dr. Crawford has been an essential role-model to my academic growth by proving that one can do it all; a real-life superhero. With the guidance of the two greatest mentors, I have discovered my interest in Neuroscience. For three years, they have rigorously prepared me for a PhD Graduate Program. Due to their motivating dedication, I will be attending a PhD Graduate Program in the Fall. Thank you, Dr. McDougall. Thank you, Dr. Crawford.

CSUSB has provided me with opportunities and experiences that I never would have imagined as a community college graduate. At CSUSB, I found my purpose: research. As an NIH-MARC Scholar, Coyote Research Ambassador, President of Coyote Scholars, and as a proud Coyote, I am honored to receive the Office of Student Research Outstanding Undergraduate Student Researcher Award.

I would like to thank Dr. Yuchin Chien for this honorable nomination, and for giving me invaluable opportunities throughout my undergraduate career. I would like to thank Dr. Christina Hassija and Ms. Danielle White for their dedication to the Office of Student Research, and allowing me to be a part of this office as a representative. I would like to thank the Chair of the Psychology Department, Dr. Robert Ricco, for the endless support and devotion to all Psychology students. I would like to thank Dean Rafik Mohammad for supporting undergraduate research opportunities in the Social and Behavioral Sciences College.

Lastly, I would like to thank my laboratory friends that I have closely worked with together, for endless hours, for over three years. It has been an adventure, and a privilege being a part of Dr. McDougall's Psychopharmacology Laboratory and Dr. Crawford's Neuropsychopharmacology Laboratory at CSUSB.

# “Meeting of the Minds” Oral Presentation Schedule

## Session 1

**Time: 1:00 - 2:35**

**Class Level: Undergraduate**

**Category: Health, Nutrition, and Clinical Sciences**

- 1:00 **Laura Contreras Ballesteros**  
Faculty Mentor: Dr. Amanda Rymal  
Major: Kinesiology  
Title: *An Analysis of the Perceptions of Observational Learning Among Athletes with Disabilities*
- 1:20 **Mason Portales, Resha Patel**  
Faculty Mentor: Dr. Amanda Rymal  
Major: Kinesiology  
Title: *Slow-Motion Motions: The Effectiveness of a Real-Time and Slow-Time Observation on Learning the Soccer Rainbow Kick*
- 1:40 **Allan Sander, Dustin Badillo, Bryan Soriano**  
Faculty Mentor: Dr. Fadi Muheidat  
Major: Computer Engineering  
Title: *Force Plate/Balance Test*
- 2:00 **Rachal Reyes, Nolan Mackey**  
Faculty Mentor: Dr. Sang Ouk Wee  
Major: Kinesiology- Allied Health  
Title: *Preliminary Study: Effect of Body Fat Percentage on Arterial Stiffness in Young Healthy Hispanic Males*
- 2:20 **Adrienne Iporac, Ana Meija**  
Faculty Mentor: Dr. Zhaojing Chen  
Major: Kinesiology- Allied Health  
Title: *The Mechanical Interaction of Bone and Muscle in Postmenopausal Women*

## Session 2

**Time: 1:00 - 2:35**

**Class Level: Undergraduate**

**Category: Behavioral and Social Sciences**

- 1:00 **Katherine Chavez**  
Faculty Mentor: Dr. Christina Hassija  
Major: Psychology  
Title: *Law Enforcement's Reactions to Disclosure and their Relation to Mental Health Outcomes Among Survivors of Sexual Assault*
- 1:20 **Katherine Chavez, Jessica Carrera, Denise Bustamante, Phillip Rollins, Kevin Hagerman, Jose Trinidad, Crystal Lara**  
Faculty Mentor: Dr. Janet Kottke  
Major: Psychology  
Title: *Mirror-Mirror: Employee Perceptions of Themselves and their Dark Triad Leaders in a Conducive Environment*
- 1:40 **Amber Olson, Prince Siraj, Teanna Keith, Victoria Cornish, Angelica Ambrossi, Joezer Nolasco**  
Faculty Mentor: Dr. Janet Kottke  
Major: Psychology  
Title: *Toxic Values and Workplace Cultures: Creating an Environment Conducive to Toxic Leadership*
- 2:00 **Kristof Csaba**  
Faculty Mentor: Dr. Ismael Diaz  
Major: Psychology  
Title: *The Effect of Authentic Leadership Development on Psychological Capital: Moderating Effect of Autotelic Personality*
- 2:20 **Brandon Dominguez**  
Faculty Mentor: Dr. Jacob Jones  
Major: Psychology  
Title: *The Relationship Between Gastrointestinal Symptoms and Mood Symptoms in Parkinson's Disease*

## Session 3

**Time: 1:00 - 2:35**

**Class Level: Undergraduate/Graduate**

**Category: Biological and Agricultural Sciences**

- 1:00 **Miles Valencia (G)**  
Faculty Mentor: Dr. Angela Horner  
Major: Biology  
Title: *Exercise Training to Increase Stress?*
- 1:20 **Constance Greenwood, Raechel Marino**  
Faculty Mentor: Dr. Richard Addante  
Major: Biological Psychology  
Title: *Undergraduate Summer Research Experience in Human Cognitive Electrophysiology*
- 1:40 **Brianna Schmidt, Michael Pierce, Gustavo Reynaga**  
Faculty Mentor: Dr. David Rhoads  
Major: Biology  
Title: *Mitochondrial Control of Nuclear Gene Expression during Heat Stress of Plants*
- 2:00 **Aaron Keniston, Nikolay Maslov**  
Faculty Mentor: Dr. Jeremy Mallari  
Major: Biology  
Title: *Understanding the Binding Mode of Novel Piperazine-Based Inhibitors Against Falcilysin, an Essential Malarial Metalloprotease*
- 2:20 **Timothy Schulte (G)**  
Faculty Mentor: Dr. James Ferrari  
Major: Biology  
Title: *Insecticide Resistance in Mosquitos and their Trade-Offs*

## Session 4

**Time: 1:00 - 2:35**

**Class Level: Undergraduate**

**Category: Humanities and Letters**

- 1:00 **Fernando Sanchez**  
Faculty Mentor: Dr. Isabel Huacuja- Alonso  
Major: History  
Title: *Farewell to the Lady: Umm Kulthum and Oral Celebrity*
- 1:20 **Jasmine Colorado**  
Faculty Mentor: Dr. Chad Luck  
Major: History/Literature  
Title: *Queen of Peace: Decolonizing the Art, Iconography, and Legend Behind The Virgin Mary of El Salvador*
- 1:40 **Mariza Vasquez**  
Faculty Mentor: Dr. Angela Penaredondo  
Major: English and Spanish  
Title: *The Watts Writers Workshop's Approaches to Creative Writing Pedagogy in Safety and Transformative Justice*
- 2:00 **Sydney Pate**  
Faculty Mentor: Dr. Julie Taylor  
Major: Communication Studies  
Title: *Virtual Blue Zones*
- 2:20 **Scott Romo**  
Faculty Mentor: Dr. Rod Metts  
Major: Communication Studies  
Title: *Exodus from Space: Hegemony in The Star Trek Fandom*

## Session 5

**Time: 1:00 - 2:15**

**Class Level: Undergraduate**

**Category: Business, Economics, and  
Public Administration**

1:00 **Mary Ascueta, Monica Aguilar**

Faculty Mentor: Dr. Krystal Rawls

Major: Marketing

Title: *Legacy Administration: Experiential Opportunities for Low-Income Management Students*

1:20 **Hector Pimienta**

Faculty Mentor: Dr. Benjamin Becerra

Major: Information Systems Technology

Title: *Assessing Vulnerability to Cybercrime Among Older Adults Using A Grounded Theory Approach*

## Session 6

**Time: 3:00 – 4:15**

**Class Level: Undergraduate/Graduate**

**Category: Education**

3:00 **Sandra Pearson (G)**

Faculty Mentor: Dr. Roderick O'Handley

Major: School Psychology

Title: *Training School Psychology Graduate Students to Conduct a Stimulus Preference Assessment*

3:20 **Gauri Nade, Colleen Lim (G)**

Faculty Mentor: Dr. Benjamin Becerra

Major: Information Systems & Technology

Title: *Problem-Solving Issues Within a CSUSB Department Related to Student Satisfaction and Enrollment Using the PROACT Framework*

3:40 **Elsy Cruz, Yesenia Casas, Stephanie Nunez-Rivera,  
Patricia Rivera**

Faculty Mentor: Dr. Nancy Acevedo-Gil

Major: Liberal Studies

Title: *Promoting Pre- and Post- Transfer Success in STEM at Hispanic Serving Institutions*

4:00 **John Gomez**

Faculty Mentor: Dr. Benjamin Becerra

Major: Kinesiology

Title: *Factors Associated with Students who Regret Coming to CSUSB: Exploring the Role of Overall Well-being Support.*

## Session 7

**Time: 3:00 – 4:35**

**Class Level: Undergraduate**

**Category: Behavioral and Social Sciences**

3:00 **Ciera Hammond**

Faculty Mentor: Dr. Meredith Conroy

Major: Political Science

Title: *Media Coverage of the 2020 Democratic Primary: A Text-as-Data Approach to Understanding Bias*

3:20 **Sydney Gerald, Haley Miguel**

Faculty Mentor: Dr. Krystal Rawls

Major: Health Science

Title: *In Service We Learn: The Impact of a Service-Learning Project on Student Awareness of Homelessness, Civic Attitudes, and Stereotypes Toward the Homeless*

3:40 **Emily-Anne del Rosario**

Faculty Mentor: Dr. Stacy Forcino

Major: Psychology

Title: *A Randomized Control Trial of a Social Skills Training Intervention for Sibling Conflict*

4:00 **Prince Siraj, Amber Olson, Victoria Cornish**

Faculty Mentor: Dr. Janet Kottke

Major: Psychology

Title: *Pocketful of Culture*

4:20 **Justin Perkins**

Faculty Mentor: Dr. Christine Famega

Major: Criminal Justice

Title: *Community-Organized Policing Theory: As the Solution to Major Criminological Theories and for the Reduction of the Incarceration Rate in the United States of America*

## Session 8

**Time: 3:00 – 4:35**

**Class Level: Graduate**

**Category: Behavioral and Social Sciences**

3:00 **Jessica Martinez**

Faculty Mentor: Dr. Deirdre Lanesskog

Major: Social Work

Title: *La Mera Verdad: Exploring Immigrant Latino Fatherhood*

3:20 **Ashley Bennett, Melissa Duchesne**

Faculty Mentor: Dr. Deirdre Lanesskog

Major: Social Work

Title: *Social Worker's Experiences and Knowledge in Working with Mixed Race Youth and Families.*

3:40 **Kaela Bonafede**

Faculty Mentor: Dr. Kelly Campbell

Major: Psychology- Clinical Counseling

Title: *Online Romantic Deception: Scale Development and Validation*

4:00 **Stephen Burwell**

Faculty Mentor: Dr. Herbert Shon

Major: Social Work

Title: *The Factors Leading to Foster Youth Obtaining Higher Education*

4:20 **George Zaragoza**

Faculty Mentor: Dr. Ahlam Muhtaseb

Major: Communication Studies

Title: *Prison Reform and Activism*

## Session 9

**Time: 3:00 – 4: 35**

**Class Level: Graduate**

**Category: Humanities and Letters**

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- 3:00 **Mark Reotutar**  
Faculty Mentor: Dr. Ahlam Muhtaseb  
Major: Communication Studies  
Title: *Power, Influence, and Instructor's Use of Instagram in the Classroom*
- 3:20 **Daniela Cisneros**  
Faculty Mentor: Dr. Ahlam Muhtaseb  
Major: Communication Studies  
Title: *Social Media Influence on Career Choice*
- 3:40 **Ricardo Vega**  
Faculty Mentor: Dr. Ahlam Muhtaseb  
Major: Communication Studies  
Title: *Student Learning as Influenced by Stigma and Labels*
- 4:00 **Adriel Chavez-Sherman**  
Faculty Mentor: Dr. Ahlam Muhtaseb  
Major: Communication Studies  
Title: *"Is Blood Thicker than Water?": Constructing, Maintaining, and Reinforcing Adoptive Identities*
- 4:20 **Andy Acosta**  
Faculty Mentor: Dr. Julie Taylor  
Major: Communication Studies  
Title: *Breaking the Stigma of Suicide: A Thematic Discourse Analysis on Discourses Regarding Suicide in 2010s Hip-Hop Songs*

## Session 10

**Time: 3:00 – 3:55**

**Class Level: Undergraduate/Graduate**

**Category: Various**

- 
- 3:00 **Kathryn Vonsydow (G)**  
Faculty Mentor: Dr. Erik Melchiorre  
Major: Geology  
Title: *Reconstructing 1856-7 California Mining Patterns from Placer Gold Recovered from the Wreck of the SS Central America*
- 3:20 **Anneke-Victoria Fischle**  
Faculty Mentor: Dr. Kathleen Nadeau  
Major: Anthropology  
Title: *Our Tangled Ocean: California Fisheries, Marine Animal Entanglements, and Local Perspectives*
- 3:40 **Nicolas Elia, Charles Kinzel**  
Faculty Mentor: Dr. Fadi Muheidat  
Major: Computer Engineering  
Title: *StimulEye - A Concussion Detector Based on Machine Learning*

## “Meeting of the Minds” Poster Presentations

### College of Arts and Letters

#### Shane Burrell

Faculty Mentor: Dr. Mihaela Popescu

Major: Communication Studies

Title: *Exploring En-Roling & De-Roling in Virtual Reality Environments*

#### Daniela Cisneros

Faculty Mentor: Dr. Ahlam Muhtaseb

Major: Communication Studies

Title: *Social Media Influence on Career Choice*

#### Luis Esparza, Francisco Rodriguez

Faculty Mentor: Dr. Liliana Conlisk-Gallegos

Major: Communication Studies

Title: *Navigating Academia with Resistencia From Multiple Fronts: Agency, Mentorship, Collaboration, Subversive Complicity and Community-Healing*

#### Francisco Rodriguez

Faculty Mentor: Dr. Liliana Conlisk Gallegos

Major: Communication

Title: *Sentipensante Pedagogy: Book Review*

#### Keyla Torres

Faculty Mentor: Dr. Paloma E. Villegas

Major: Spanish-Hispanic Literature, Language, and Civilization/  
Communication Studies

Title: *What Factors Influence Undocumented Students' Experiences of Campus Climate? A Literature Review*

### Jack H. Brown College of Business and Public Administration

#### Mary Ascueta, Monica Aguilar

Faculty Mentor: Dr. Krystal Rawls

Major: Marketing

Title: *Legacy Administration: Experiential Opportunities for Low-Income Management Students*

#### Ana Builes, Santiago Melchor, Mikayla Kissel

Faculty Mentor: Dr. Krystal Rawls

Major: Management

Title: *A Comparative Study of Management Expectations and Student Experience*

#### Abhilasha Chavaly

Faculty Mentor: Dr. Winifred Scott

Major: Accounting

Title: *Connecting the Dots: A Meta-Analysis on Employee Motivation Theory and Agency Theory*

#### Harman Dhillon

Faculty Mentor: Dr. Vipin Gupta

Major: Business Administration

Title: *Factors and Conditions that Affect the Relationship between Tourists and Locals*

#### Ixchel Sanchez Arroyo

Faculty Mentor: Dr. William Stevenson

Major: Finance

Title: *Investing in Stock Can Combat Inflation Effects*

## College of Education

### Lakhvir Kaur, Ricardo Hernandez

Faculty Mentor: Dr. R. Brett Nelson

Major: School Psychology

Title: *Relationship of Technology Usage to Psychological Well-Being in Young Adults*

### Lakhvir Kaur

Faculty Mentor: Dr. Roderick O'Handley

Major: School Psychology

Title: *Examining the Involvement of School Psychologists in the Assessment, Intervention Implementation, and Progress Monitoring of Students with Autism Spectrum Disorder in School Settings*

### Cassandra Taylor

Faculty Mentor: Dr. Roderick O'Handley

Major: School Psychology

Title: *Using Video Modeling to Train Caregivers to Conduct Stimulus Preference Assessments: A Review of the Literature*

### Gerardo Lorenzo-Saucedo

Faculty Mentor: Dr. Edwin Hernandez

Major: Counseling & Guidance

Title: *Men of Color Programs in Community Colleges: Experiences from Participants*

## College of Natural Sciences

### Eman Alzoghbieh, Ana Quintana, Giovianna Lopez, Isaac Diaz

Faculty Mentor: Dr. Salome Mshigeni

Major: Public Health and Education

Title: *The Elephant in the Room: Is There a Dilemma Surrounding Food Security Among College Students?*

### Cody Atkins

Faculty Mentor: Dr. Laura Newcomb

Major: Biology

Title: *Cooperative Plasmid Construction: Student Participation in Novel Research*

### Angela Ayres-Hudson, Joanina Gazcon

Faculty Mentor: Dr. Salome Mshigeni

Major: Public Health

Title: *Evidence-based Sexual Education and Reproductive Health Amongst College Students*

### Ian Becker, Philip Field, Mark Ortiz, Tayer Lyons

Faculty Mentor: Dr. Fadi Muheidat

Major: Computer Engineering

Title: *The Big Plate Very Large Vertical Jump Length Plate for People who Jump Force Plate*

### Sean Christopher Bonilla

Faculty Mentor: Dr. Nicole Dabbs

Major: Kinesiology Allied Health

Title: *The Effects of Whole-Body Vibration and Fatigue on Vertical Jump Performance*

### Raylene Cabrera

Faculty Mentor: Dr. Codi Lazar

Major: Geology

Title: *Mineralogical and Chemical Relationships in Hanksite Crystal Morphology*

### Luis Chavez

Faculty Mentor: Dr. Salome Mshigeni

Major: Public Health

Title: *Culture Competency a Gateway to Mental Health Care*

### Elodia Ciprian

Faculty Mentor: Dr. Codi Lazar

Major: Environmental Geology

Title: *Hanksite*

**Alison Conner, Angelina Jackson, Chloe Addison**

Faculty Mentor: Dr. Tomasz Owerkowicz

Major: Biology and Kinesiology

Title: *Gators on TUMs: Experimental Test of Bone Buffering Capacity of Lactic Acid*

**Beatriz Delgado**

Faculty Mentor: Dr. Daniel Nickerson

Major: Biology

Title: *Exploring Whether All SM Proteins Control Membrane Fusion by Protecting Pre-Fusion SNARE Complexes From Disassembly*

**Carolina Escobar Palacio**

Faculty Mentor: Dr. Kimberley Cousins

Major: Bioinformatics

Title: *Screening For Multiferroics Using the CDC*

**Sergio Espericueta**

Faculty Mentor: Dr. Nicole Dabbs

Major: Kinesiology

Title: *The Effects of Whole-body Vibration and Fatigue on Isometric Mid-Thigh Pull*

**Christopher Garcia**

Faculty Mentor: Dr. Kimberley Cousins

Major: Chemistry- Biochemistry

Title: *Using CSD to Search For The Most Common Monomers For Co-Crystal Formation*

**Karina Herrera**

Faculty Mentor: Dr. Becky Talyn

Major: Chemistry, Biochemistry

Title: *Localization of Accumulation Of Glyphosate Herbicide Within The Body Of Drosophila Melanogaster, A Non-Target Animal*

**Johnny Huatran, Sheida Moradi, Adrienne Iporac, Ana Mejia, William Prince**

Faculty Mentor: Dr. Zhaojing Chen

Major: Kinesiology

Title: *Comparison of Body Composition Measurements in DXA and BIA in Postmenopausal Women*

**Mayra Huitron, Auguste Torres**

Faculty Mentor: Dr. Neal Malik and Dr. Wagner Do Prado

Major: Nutrition and Food Sciences

Title: *The Effects of High-Intensity Interval Exercise on Energy Intake in Those with Obesity*

**Gulbag Kahlon**

Faculty Mentor: Dr. Jeremy Mallari

Major: Biology

Title: *Understanding the Structural-Activity Relationship (SAR) Of Chemical Inhibitors With Falcilysin, An Essential Malarial Metalloprotease*

**Rogelio Lira**

Faculty Mentor: Dr. Jeremy Mallari

Major: Biology

Title: *Developing Chemical Inhibitors of Falcilysin, A Malaria Metalloprotease*

**Andrea Monteon**

Faculty Mentor: Dr. Nicole Bournias-Vardiabasis

Major: Biology

Title: *Effect of mrTBI on Drosophila melanogaster*

**Mario Mora**

Faculty Mentor: Dr. W. Britt Leatham

Major: Geology

Title: *Characterization of Hanksite-bearing Clays of Searles Lake*

**Jesus Mora Sanchez**

Faculty Mentor: Dr. Min-Lin Lo

Major: Mathematics

Title: *Radio Labeling of Path Graphs to the 10th Power*

**Kimberly Morales, Sarah Sayers**

Faculty Mentor: Dr. Laura Newcomb

Major: Biology

Title: *The Effect of Nucleozin on Influenza A Nucleoprotein and vRNP Function*

**Christopher Neville**

Faculty Mentor: Dr. Paul Orwin

Major: Biology

Title: *Evolution of Genome Architecture in Variovoarax*

**Andrea Monteon**

Faculty Mentor: Dr. Nicole Bournias

Major: Biology

Title: *Effects of Mild Repetitive TBI (mrTBI) on Drosophila melanogaster*

**Gabriel Nieto**

Faculty Mentor: Dr. Codi Lazar

Major: Geology

Title: *Solubility of Hanksite Using Atomic Absorption Spectrometry*

**Jorge Paredes**

Faculty Mentor: Dr. Erik Melchiorre

Major: Geology

Title: *Origins of Placer Gold From The La Cholla Placers, Quartzsite, Arizona*

**Gamaliel Pelayo**

Faculty Mentor: Dr. Kerry Cato

Major: Geology

Title: *Revaluation of Flooding And Sedimentation Hazards Along Lytle-Cajon Creek, Southwest San Bernardino, California*

**Jennifer Pereda**

Faculty Mentor: Dr. Joan Fryxell

Major: Geology

Title: *Sediment Compaction on Land Lab Field at CSUSB*

**Julissa Perez-Marron**

Faculty Mentor: Dr. Paul Orwin

Major: Biology

Title: *Enrichment and Shotgun Metagenomic Analysis of the Alligator Oral Microbiome*

**Emmett Pompa**

Faculty Mentor: Dr. Jeremy Mallari

Major: Biochemistry

Title: *Exploration of New Small Molecule Inhibitor Scaffolds for Falcilysin, an Essential Malarial Protease*

**Monique Quinn**

Faculty Mentor: Dr. Daniel Nickerson

Major: Biology

Title: *Msp1 Regulates Localization of The Peroxisomal Transmembrane Rab Gtpase Accelerating Protein Gyp8*

**Kristen Rader**

Faculty Mentor: Dr. David Marshall

Major: Health Science

Title: *Health Disparities Among the Transgender Population*

**Jesus Mora Sanchez**

Faculty Mentor: Dr. Min-Lin Lo

Major: Mathematics

Title: *Radio Labeling Of 10th Power Path Graphs*

**Tracy Roberts**

Faculty Mentor: Dr. Erik Melchiorre

Major: Geology

Title: *Geochemical and Toxicological Assessment of Sediment from the Salton Sea, California*

**Jacob Ruiz, Raquel Rodriguez**

Faculty Mentor: Dr. Laura Newcomb

Major: Biology, Pre-Med

Title: *Exploring Influenza NS1-NP Interaction as Antiviral Target.*

**Andres Ruiz-Felix, Chad Moorman**

Faculty Mentor: Dr. Jason Burke

Major: Chemistry and Biochemistry

Title: *Generating a Novel Fluorescence Assay to Reveal How Cancer Mutations Alter Retinoblastoma Protein Binding Functions*

**Kyle Ryan**

Faculty Mentor: Dr. Andreas Beyersdorf

Major: Chemistry

Title: *The Cloud, Aerosol, and Monsoon Processes Philippines Experiment*

**Ciara Sanders, Esther Gomez, Sean Escopete**

Faculty Mentor: Dr. Paul Orwin

Major: Biology

Title: *Investigating the American Alligator (Alligator Mississippiensis) Gut Microbiome Using Next-Generation Sequencing*

**Brianna Schmidt**

Faculty Mentor: Dr. David Rhoads

Major: Biology

Title: *Is Expression of Cytoplasmic Small Heat Shock Proteins Regulated by Mitochondria?*

**Bryan Seymour**

Faculty Mentor: Dr. Codi Lazar

Major: Geology

Title: *A Mineralogical and Geochemical Investigation Of The Influence Of Tectonic Setting On Sulfur Cycling During Serpentinization Along The Western North America Margin*

**Riley Sherwood, Scott Murray, Josh Gogolin, Aaron Lim**

Faculty Mentor: Dr. Fadi Muheidat

Major: Computer Engineering

Title: *Balance and Gait Analysis Insole*

**Joseph Spong**

Faculty Mentor: Dr. Brett Stanley

Major: Chemistry

Title: *Analytical Method Development of the Determination of Free and Bound Glycine in Water Samples*

**Carlos Vargas Ochoa, Deisy Morales**

Faculty Mentor: Dr. Sara Callori

Major: Applied Physics

Title: *Determining Optimal Growth Conditions of Ferriic Oxide Thin Films*

**Jesse Ventura**

Faculty Mentor: Dr. Nicole Bournias

Major: Biology

Title: *Analyzing the Cytotoxicity of Electronic Cigarette Aerosol Elements: Selenium and Arsenic on Human Airway Epithelial Cells*

**Rubi Vera**

Faculty Mentor: Dr. Monideepa Becerra

Major: Health Science

Title: *Perceived Discrimination among College Students in Health Care*

**Kathryn VonSydow**

Faculty Mentor: Dr. Erik Melchiorre

Major: Geology

Title: *Reconstructing 1856-7 California Mining Patterns from Placer Gold Recovered from the Wreck of the SS Central America*

**Chau Vuong, Adrian Mora, Sean Connolly**

Faculty Mentor: Dr. Daniel Nickerson

Major: Chemistry

Title: *Determining the Physiological Role(S) Of Gyp8: A Novel Transmembrane Rab GAP That Localizes To Peroxisomes In Yeast*

**College of Social and Behavioral Sciences**

**Matthew Appel**

Faculty Mentor: Dr. John Clapper

Major: Psychology

Title: *Correlated versus Uncorrelated Feature Effects in Unsupervised Category Learning*

**Mary Bangcawayan**

Faculty Mentor: Dr. Michael Lewin

Major: Psychology

Title: *The Relationship between Early Maladaptive Schemas and Depression: The Mediation Role of Psychological Inflexibility*

**Ashley Bennett, Mellissa Duchesne**

Faculty Mentor: Dr. Deirdre Lanesskog

Major: Social Work

Title: *Social Worker's Experiences and Knowledge in Working with Mixed Race Youth and Families.***Jessica Bezenah**

Faculty Mentor: Dr. Leslie Amodeo

Major: Biological Psychology

Title: *Impact of Prenatal Escitalopram on Cognitive Flexibility and Social Interactions***Jasmine Bonsel**

Faculty Mentor: Dr. Hideya Koshino

Major: Psychological Science

Title: *The Effect of Anxiety on Spatial Negative Priming***Joseph Bunch, Carmen Uribe**

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Neural Correlates of Anxiety Disorders and Parkinson's Disease***McKenna Burdette**

Faculty Mentor: Dr. Dionisio Amodeo

Major: Bio-Psychology

Title: *The 5-HT<sub>6</sub> Receptor SB271046 Attenuates Marble Burying In The BTBR Mouse Model Of Autism Spectrum Disorder.***Susana Cabrera**

Faculty Mentor: Dr. Kelly Campbell

Major: Psychology

Title: *Social Norms Guiding Friendship Dissolution***Zuleima Carrillo, Victoria Valenzuela**

Faculty Mentor: Dr. Deirdre Lanesskog

Major: Social Work

Title: *Professionals' Perspective on Barriers and Facilitators of Success with Teen Parents in the Child Welfare System***Katherine Chavez**

Faculty Mentor: Dr. Christina Hassija

Major: Psychology

Title: *Law Enforcement's Reactions to Disclosure and Their Relation to Mental Health Outcomes among Survivors of Sexual Assault***Katherine Chavez, Jessica Carrera, Denise Bustamante, Phillip Rollins, Kevin Hagerman, Jose Trinidad, Crystal Lara**

Faculty Mentor: Dr. Janet Kottke

Major: Psychology

Title: *Mirror-Mirror: Employee Perceptions of Themselves and Their Dark Triad Leaders In A Conducive Environment***Emily-Anne del Rosario**

Faculty Mentor: Dr. Stacy Forcino

Major: Psychology

Title: *A Randomized Control Trial of a Social Skills Training Intervention for Sibling Conflict***Brandon Dominguez**

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *The Relationship Between Gastrointestinal Symptoms and Mood Symptoms in Parkinson's Disease***Max Emery, Alma Pahua**

Faculty Mentor: Dr. Dionisio Amodeo

Major: Biological Psychology

Title: *The Effects of Serotonin 1A/1B Receptor Agonist RU24969 on Grooming Behaviors in BTBR mice***David Faith**

Faculty Mentor: Dr. Wesley Niewoehner

Major: Applied Archaeology

Title: *A Chronological Analysis of Fish Ridge, San Miguel Island, Channel Islands California***Mary Ellen Garcia**

Faculty Mentor: Dr. Manijeh Badiie

Major: Psychology

Title: *Ecological Predictors of Victim Blame in Latinx and European American College Students*

**Kendall Grant**

Faculty Mentor: Dr. Kelly Campbell

Major: Psychology

Title: *Social Norms Regarding Friendship Initiation*

**Estevan Hernandez, Sandra Hernandez**

Faculty Mentor: Dr. Manijeh Badiee

Major: Psychology and Human Development

Title: *Environmental Predictors of Mental Health among Latinx and European American College Students*

**Brynne Hosea**

Faculty Mentor: Dr. Eugene Wong

Major: Psychology

Title: *The Effectiveness of Cognitive Training in Improving Neurotypical Children's Working Memory*

**Benjamin Johnson**

Faculty Mentor: Dr. Leslie Amodeo

Major: Psychology

Title: *Impact of Early Methylphenidate on Risk Preference in Adulthood*

**Raeven Jones**

Faculty Mentor: Dr. Janet Kottke

Major: Psychology

Title: *The Impact of Means Efficacy and Core Self-Evaluations on Task Performance*

**Sophia Josemoan**

Faculty Mentor: Dr. Maria Santos

Major: Psychology

Title: *Mental Healthcare Utilization*

**Erika Kelley**

Faculty Mentor: Dr. Kate Lizska

Major: History

Title: *Making the Past Virtual*

**Kelly Kevershan**

Faculty Mentor: Dr. David Chavez

Major: Psychology

Title: *Evaluation of Psychological Empowerment Scales for Children*

**Kristen Lizasuain**

Faculty Mentor: Dr. Mark Agars

Major: Psychology

Title: *Workplace Flexibility for Low-Wage Working Mothers: Impacts on Parent-Child Relationships*

**Rosamaria Lopez Diaz**

Faculty Mentor: Dr. Deirdre Laneskog

Major: Social Work

Title: *Erickson's Stages of Psychosocial Development and its Application to First Nation and Immigrant Groups*

**Acacia Lovett, Estelita Hasler**

Faculty Mentor: Dr. Deirdre Laneskog

Major: Social Work

Title: *Disproportionality Among African American Children In The Child Welfare System: A Social Worker's Perspective*

**Emely Lugo**

Faculty Mentor: Dr. Eugene Wong

Major: Psychology

Title: *The Effects of Computerized Cognitive Training on Working Memory, Cognitive Flexibility, and Processing Speed among Primary School Children*

**Raechel Marino, Constance Greenwood, Rosemarie Valencia, Michaela Milone**

Faculty Mentor: Dr. Richard Addante

Major: Biological Psychology

Title: *Investigating the Role of Distractor Cueing in Pre-Stimulus Associative Encoding Effects: A Behavioral Study*

**Jessica Martinez**

Faculty Mentor: Dr. Deirdre Laneskog

Major: Social Work

Title: *La Mera Verdad: Exploring Immigrant Latino Fatherhood*

**Courtney McGrath, Areli Enriquez, Natalie Flores, Rodolfo Felix, Roxanne Hudgens**

Faculty Mentor: Dr. Paloma Villegas

Major: Sociology

Title: *"I Don't Want My Problem to Become their Problem": Food Insecurity Stigma and CSUSB Students***Michaela Milone, Constance Greenwood**

Faculty Mentor: Dr. Richard Addante

Major: Psychology

Title: *Exploration of Mobile EEG Devices in Operational Settings***Nazaret Montejano, Jasmine Robinson**

Faculty Mentor: Dr. Sanders McDougall

Major: Biopsychology

Title: *Neural Mechanisms Mediating RU 24969-Induced Locomotor Activity in Prewanling Male and Female Rats***Jay Von Monteza**

Faculty Mentor: Dr. Hideya Koshino

Major: Psychology

Title: *The Effects of Trait-Anxiety, Working Memory Capacity, and Mood on Visual Short-Term Memory***Brandon Oliver**

Faculty Mentor: Dr. Dionisio Amodeo

Major: Psychological Science

Title: *The serotonin 1a/1b receptor agonist RU24969 on Behavioral Flexibility in Mice.***Amber Olson, Jessica Carrera Mendoza, Prince Siraj, Mernyll Manalo, Katherine Chavez, Teanna Keith, Kristof Csaba**

Faculty Mentor: Dr. Janet Kottke

Major: Psychology

Title: *Who Follows a Toxic Leader? Continuing the Validation of the Follower Categorization Assessment***Alexander Oseguera-Chavez**

Faculty Mentor: Dr. Maria Santos

Major: Psychology

Title: *Self-Perceptions of Latin-X Skin Color and its Effects on the Working Alliance***Ariana Padilla, Joseph Bunch, Aprilia Noer, Halbert Beaver**

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Cognitive and Functional Consequences of Microbiome Disruption among Older Adults***Alma Pahua, Brandon Oliver, Kristianna Hitchcock**

Faculty Mentor: Dr. Dennis Amodeo

Major: Psychological Science

Title: *Effects of Serotonin 5-HT1B/1A Receptor Agonist RU24969 on Working Memory***Ginny Park**

Faculty Mentor: Dr. Sanders McDougall

Major: Biological Psychology

Title: *Understanding the Role of Dopamine and Serotonin Systems in MK801-Induced Locomotor Activity in Prewanling and Adolescent Female and Male Rats***Lydia Perez-Palencia, Anahi Reynoso-Franco, Sarai Tovar**

Faculty Mentor: Dr. Jose Munoz

Major: Sociology

Title: *Popular Culture, Latinos and Mental Health***Anabell Ramos**

Faculty Mentor: Dr. Stacy Forcino

Major: Psychology and Human Development

Title: *Perception of Sibling Conflict: Effects of Sibling Gender and Maternal Values***Jessica Razo**

Faculty Mentor: Dr. Cynthia Crawford

Major: Psychology

Title: *Effects of Neonatal Ethanol Exposure in 6-OHDA-Lesioned Rats***Danahly Reyes, Magally Villarreal**

Faculty Mentor: Dr. Deirdre Lanesskog

Major: Social Work

Title: *Social workers' Role in Fostering Higher Education within Foster Youth*

**Jasmine Rios**

Faculty Mentor: Dr. Cynthia Crawford

Major: Psychology

Title: *Fentanyl-induced Sensitization in Adolescent and Adult Rats*

**Andrew Rivera**

Faculty Mentor: Dr. Jason Reimer

Major: Psychology

Title: *Measures of Working Memory*

**Melody Robinson**

Faculty Mentor: Dr. Christina Hassija

Major: Psychological Science

Title: *The Role of Trauma Coping Self-Efficacy and Shame in the Relationship between Variants of Self-Blame and Psychological Outcomes*

**Miranda Rubio, Carmen Covarrubias**

Faculty Mentor: Dr. Deirdre Lanesskog

Major: Social Work

Title: *Extended Foster Care*

**Caitlin Shaw**

Faculty Mentor: Dr. Donna Garcia

Major: Psychological Science

Title: *The Consequences of Social Exclusion on Negative Affect and Self-Regulation*

**Anthony Sierra, Kyle Mobly, Andrew Rivera**

Faculty Mentor: Dr. Jason Reimer

Major: Psychological Science

Title: *Eye Movements During the Ax-Cpt Predict Modes of Cognitive Control*

**Holly Timblin, Shania Garrett, Elizabeth Rahmani, Halbert Beaver**

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Investigating Physical Activity as a Mediator Between Cognition and Mood Symptoms among Individuals with Parkinson's Disease*

**Carmen Uribe, Joseph Bunch**

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Objectively Defined Subtle Cognitive Decline Predicts Future Cognitive Decline and Functional Impairment in Parkinson's Disease*

**Yenny Valenzuela**

Faculty Mentor: Dr. Jacob Jones

Major: Psychology

Title: *Cortical Grey Matter Decrease, Intraindividual Variability Increase, and Parkinson's Disease*

**Rosemarie Valencia, Constance Greenwood, Raechel Marino**

Faculty Mentor: Dr. Richard Addante

Major: Biological Psychology

Title: *Community Engagement for STEM Outreach: Innovations in Science Communication for Student-Scientists*

**Karina Ventura**

Faculty Mentor: Dr. Amy Van Schagen

Major: Psychology

Title: *Identifying Stress of Directors in Early Childhood Based Programs*

**Adriana Verduzco**

Faculty Mentor: Dr. Amy Van Schagen

Major: Child Development

Title: *Personal Development Program to Support Teacher Efficacy for Early Childhood Preservice Teachers*

# Faculty Jurors

We would like to extend our deepest gratitude to our volunteer faculty jurors for their time and support of today's event.

Deputy Provost, Clare Weber

## College of Arts and Letters

Carmen Jany  
Esteban Cordoba  
Jason Mann  
Thomas Girshin

## Jack H. Brown

## College of Business and Public Administration

Benjamin Becerra  
Dhruv Khurana  
Haakon Brown  
Jing Zhang  
Nasrin Mohabbati  
Victoria Seitz  
Yasemin Dildar

## College of Education

Nicole Klimow  
Priyanka Yalamanchili

## College of Natural Sciences

Ana Quintana  
Daniel Nickerson  
David Maynard  
Fadi Muheidat  
Jason Burke

Jason Ng

Jennifer Carhart

Jeremy Mallari

Kassandra Harding

Kimberley Cousins

Neal Malik

Rajrani Kalra

Salome Mshigeni

Sara Callori

Zhaojing Chen

## College of Social and Behavioral Sciences

Cary Barber

Deirdre Lanesskog

Fabian Borges

Hareem Khan

Jacob Jones

Leslie Amodeo

Manijeh Badiee

Meredith Conroy

Nerea Marteache

Reveka Shteynberg

Ryan Keating

Steven Childs

Zachary Powell

## John M. Pfay Library

John Hernandez

Risa Lumley

# Acknowledgements

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We would like to thank everyone who contributed their time and effort towards the success of this event.

## **California State University, San Bernardino**

The Office of Student Research

## **9th Annual Student Research Symposium**

May 14th, 2020

Presented By

Dr. Dorota Huizinga, Provost of Academic Research

Dr. Christina Hassija, Director of the Office of Student Research

Ms. Danielle White, Program Coordinator

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