The Office of Student Research Presents the

9th Annual

Student Research Symposium

Celebrating the achievements of CSUSB’s students’ research and creative activity. The “Meeting of the Minds” is a one-day event recognizing the outstanding scholarly accomplishments of CSUSB students. The Office of Student Research provides a public forum where students present their research, scholarship, and creative activities.

Visit bit.ly/osresearchweek to ATTEND!

May 14, 2020 • 11 a.m.–5 p.m.

For more information, visit osr.csusb.edu or call (909) 537-3728
9th annual “Meeting of the Minds”
Student Research Symposium

May 14th, 2020

Hosted by

CALIFORNIA STATE UNIVERSITY
SAN BERNARDINO
Office of Student Research
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To view student presentation abstracts, please visit [https://scholarworks.lib.csusb.edu/osr/](https://scholarworks.lib.csusb.edu/osr/)
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.
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

“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
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 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.
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

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

### Session 4

**Time:** 1:00 - 2:35  
**Class Level:** Undergraduate  
**Category:** Humanities and Letters

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

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 Ascuenta, 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

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 Alzoghibeh, 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, Taeyler 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: *Reevaluation 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 Serpentinitization 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 Ferroic 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 Mediational 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-HT6 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 Badiee  
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 Lanesskog  
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 Lanesskog  
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 Lanesskog  
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 Preweanling 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 Preweanling 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
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

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

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Acknowledgements

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**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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