The Office of Student Research Presents the

8TH ANNUAL

STUDENT RESEARCH SYMPOSIUM

MEETING OF THE MINDS

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.

May 16, 2019 • 9 a.m.–4:30 p.m. • Santos Manuel Student Union

For more information, visit osr.csusb.edu or call (909) 537-3728
8th Annual
“Meeting of the Minds”
Student Research Symposium

May 16th, 2019

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/
Message from Dr. Dorota Huizinga

May 16th, 2019

Dear Colleagues and Students,

Welcome to the 2019 “Meeting of the Minds” Student Research Symposium- the 8th year of this university-wide event that highlights the outstanding research and creative activities taking place on our beautiful campus. 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 260 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 Student Researchers Luncheon on May 17th.

Thank you to our dedicated faculty mentors who have encouraged students in their research, and to the staff for coordinating this year’s symposium. More than 90 volunteers of faculty, staff, and students are sharing their time today to help make the event a successful one. I am truly grateful for these efforts, and I hope that you enjoy today’s event.

Sincerely,

Dorota Huizinga, Ph.D.
May 16th, 2019

Dear Colleagues and Students,

It is with great pleasure that I welcome the students and faculty of California State University, San Bernardino to the Office of Student Research's (OSR) 8th annual “Meeting of the Minds” Student Research Symposium. “Meeting of the Minds” is our opportunity to showcase the outstanding research and creative projects of our students and their faculty mentors.

Today, we would like to recognize and celebrate the results of our students’ hard work. I sincerely hope that you enjoy today’s presentations and performances, 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 Hassija, Ph.D.
## Agenda

### “Meeting of the Minds”

**Student Research Symposium**

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<th>Date</th>
<th>Time</th>
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<tr>
<td>May 16th, 2019</td>
<td>8:30 - 4:30 p.m.</td>
<td>Registration</td>
<td>Event Center</td>
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<td></td>
<td>9:00 - 9:30 a.m.</td>
<td>Opening Ceremony</td>
<td>SMSU Event Center A</td>
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<tr>
<td></td>
<td>9:30 - 11:00 a.m.</td>
<td>Poster Presentations &amp; Art Exhibits</td>
<td>SMSU Event Center BC</td>
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<td></td>
<td>11:30 - 12:30 p.m.</td>
<td>Lunch</td>
<td>SMSU Event Center A</td>
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<td></td>
<td>1:00 - 2:20 p.m.</td>
<td>Student Presentations Session I</td>
<td>SMSU Fourplex</td>
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<td>2:40 - 3:55 p.m.</td>
<td>Student Presentations Session II</td>
<td>SMSU Fourplex</td>
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<td></td>
<td>4:10 - 5:30 p.m.</td>
<td>Student Presentations Session III</td>
<td>SMSU Fourplex</td>
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*Welcome Remarks, Dr. Dorota Huizinga
Opening Remarks, Dr. Christina Hassija
Special Remarks, President Tomás D. Morales*

### Recognition of Faculty Mentors and Student Researchers Luncheon

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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>May 17th, 2019</td>
<td>12:00 - 12:30 p.m.</td>
<td>Registration</td>
<td>Yasuda Center</td>
</tr>
<tr>
<td></td>
<td>12:30 - 12:40 a.m.</td>
<td>Welcome Remarks</td>
<td>Yasuda Center</td>
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<tr>
<td></td>
<td>12:40 - 12:55 p.m.</td>
<td>Special Presentations</td>
<td>Yasuda Center</td>
</tr>
<tr>
<td></td>
<td>1:10 - 1:50 p.m.</td>
<td>Recognition and Award Ceremony</td>
<td>Yasuda Center</td>
</tr>
<tr>
<td></td>
<td>1:50 - 2:00 p.m.</td>
<td>Closing</td>
<td>Yasuda Center</td>
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*Welcome Remarks, Dr. Dorota Huizinga
Outstanding Undergraduate Student Researcher Awardee, Gabriel Lopez
Special Performance by: Nicole Perez and Han Vu
Closing Remarks, Drs. Dorota Huizinga and Christina Hassija*
**Outstanding Undergraduate Student Researcher Awardee**

**Gabriel Lopez**  
Faculty Mentor: Dr. Corrine Johnson

Gabriel Lopez is a fourth year Mathematics major completing his Bachelor’s of Science this Spring. During his time here at CSUSB, he has been involved in a number of research projects on top of his normal coursework. In the Summer of 2017, Gabriel participated in a Research Experience for Undergraduates (REU) at the University of Washington, Bothell, where he did work in tiling theory. The following Winter quarter back home in San Bernardino, Gabriel began work on a new project in modeling self-assembling DNA complexes using graph theory under one of his professors, Dr. Cory Johnson. Their work continues to this day. The summer of 2018, Gabriel participated in his second REU here at CSUSB, where he studied differential geometry under Dr. Corey Dunn. Between all of these projects, Gabriel has presented at numerous conferences across the country, and has won a number of awards and recognitions for his work, including at this year’s statewide CSU Research Competition.

He has been studying self-assembled DNA complexes by modeling them with a mathematical objects called graphs. Graph theory provides us with a number of useful tools and techniques to study the structure of the DNA complexes that graphs can model. Researchers have used this method to optimize the construction of DNA complexes with several specific underlying graph structures. Her has added two families of graphs to the list of structures to construct as efficiently as possible: the wheel graph and the windmill graph.

Gabriel is grateful to all of his mentors, friends, and family who have supported him along the way. This fall, Gabriel will be starting his Ph.D. at the University of Colorado, Boulder, where he plans to study algebra and topology.

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**Outstanding Graduate Student Researcher Awardee**

**Alana Muller**  
Faculty Mentor: Dr. Richard Addante

Alana Muller is a third-year masters student in the Psychological Science program. She was born in Hawaii, moved to California for college and stayed to pursue my masters. She was accepted into the Ph.D. program for Psychology at the University of Arizona for next school year.

She is a member of the cognitive neuroscience lab under Dr. Richard Addante, which uses electroencephalography (EEG) to study episodic memory and metacognition. Her thesis involves investigating the neural correlates of the Dunning-Kruger Effect which categorizes the phenomenon in which individuals who score low on a task over-estimate their performance while individuals who score high on a task under-estimate their performance. She helped design an innovative paradigm to study the neurophysiology of overconfidence while also being involved in at least five active or completed research projects in the lab.

She is also currently involved in a collaborative research project with Dr. Weiwei Zhang, a professor of psychology at UC Riverside, to study cognitive deficits that occur during concurrent physical exertion in astronauts. This experiment was approved to be conducted on an upcoming underwater NASA mission in June 2019. She is also working on a second project in preparation for the 2020 underwater NASA mission to mitigate those cognitive deficits using transcranial direct current stimulation (tDCS), which applies a mild current through the frontal lobe to increase functioning of the frontal cortex.
Student Performance

Nicole Perez and Han Vu

Faculty Mentor(s): Dr. Wen-Ting Huan and Professor Javier Gonzalez

Title: La Vie En Rose and On My Own

Performing La Vie En Rose and On My Own, Nicole Perez and Han Vu are fourth-year music majors who have been performing for over 10 years. They will perform during this year’s Recognition of Faculty Mentors and Student Researchers Luncheon on May 17th.

La Vie En Rose is a classic French piece written by Edith Piaf, who was a French vocalist, songwriter, cabaret performer, and film actress during the 1940s. As one of her signature songs, it is about seeing the world in rose-colored lenses because of new love.

On My Own is a piece from the musical Les Miserables written by Victor Hugo in 1862. The song is one of the productions most famous songs, in which the character Eponine, is explaining her love for Marius. However, Marius is in love with another woman. This piece is Eponine admitting she is in love with him, but there is no chance for them to be together.
To view student presentation abstracts, please visit https://scholarworks.lib.csusb.edu/osr/

**College of Art & Letters**

**Ryan Clark, Paul Garcia, Melora Garcia**
Faculty Mentor: Dr. Ed Gomez
Title: *Reclaiming Myth*

**Halima Ladbon**
Faculty Mentor: Dr. Alison Petty
Title: *Summer Skin*

**Mellissa Patton**
Faculty Mentor: Dr. Julie Taylor
Title: *Doing Gender in the Princess Diaries’ Guyland: Training to Become a Babe*

**College of Education**

**Matthew Atherton**
Faculty Mentor: Dr. Eun-Ok Baek
Title: *The Efficiency of Using 3D Models to Teach Lifting and Rigging Concepts to Learners of Varying Spatial Ability*

**Lakhvir Kaur**
Faculty Mentor: Dr. Robert B. Nelson
Title: *Effects of Technology Use on Positive Mental Health*

**Mary McAllister-Parsons**
Faculty Mentor: Dr. Nancy Acevedo-Gil
Title: *Creating a College-Going Partnership with Latina/o Parents of Elementary School Students*

**Ifthika Nissar**
Faculty Mentor: Dr. Doris Wilson
Title: *Assessment of Inclusive Practices in Head Start Preschool Classrooms to Support Students with Disabilities: Access, Participation, and Supports*

**Johanna Ortez**
Faculty Mentor: Dr. Edwin Hernandez
Title: *“I am Not a Failure”: The Educational Experiences of Latina Continuation High School Students*

**Catherine Tamayo**
Faculty Mentor: Dr. Bonnie Piller
Title: *Effective Professional Development for Educators and School Administrators in Higher Education and Practicum: What Role can ACSA Play?*

**Guadalupe Valdivia, Mauricio Guido**
Faculty Mentor: Dr. John Winslade
Title: *Differences in Future Orientation for University Students with and without High School Paid Work Experience*

**Fernando Villalpando**
Faculty Mentor: Dr. Nancy Acevedo-Gil
Title: *Pa’delante: Testimonios, Experiences and Aspirations of Undocumented Latina/o/x College Students During the Trump Presidency*

**College of Natural Sciences**

**John Paul Abadines, Brandon Fins**
Faculty Mentor: Dr. Paul Dixon
Title: *Creating a Low-Cost Scanning Tunneling Microscope*
Zachary Andrews  
Faculty Mentor: Dr. George Lazar  
Title: Origin of the Serpentinite Bodies in the Domingonigoni Mountains, Diamond Valley Lake

Aleka Arredondo  
Faculty Mentor: Dr. Monideepa Becerra  
Title: Gender-Based Body Image Perception among College Students

Bilal Azhand  
Faculty Mentor: Dr. Angela Horner  
Title: Effects of Early Exposure to Exercise on Mice Endurance

Maryam Badoella  
Faculty Mentor: Dr. Becky Talyn  
Title: Mortality in Drosophila melanogaster when Reared with Different Herbicides

Joselyn Berumen, Raquel Rodriguez  
Faculty Mentor: Dr. Laura Newcomb  
Title: Generation of Influenza NP-FLAG Virus to Facilitate NP Interaction Studies

Sean Christopher Bonilla  
Faculty Mentor: Dr. Nicole Dabbs  
Title: Relationship among Physiological, Perceptual, and Biomechanical Variables during Exercise on a Non-Motorized Treadmill in DII Cross-Country Athletes

Justin Bowman  
Faculty Mentor: Dr. Erik Melchiorre  
Title: Origins of Blue Color in Sapphires from El Dorado Bar, Montana

Manuel Bravo-Rangel, Alexander Cueto  
Faculty Mentor: Dr. Nicole Bournias  
Title: Development of a Drosophila melanogaster Assay to Assess the Developmental Toxicity of Phorate

Shea Caddel  
Faculty Mentor: Dr. Jason Ng  
Title: Correlation Between VO2max and Anaerobic Power in Law Enforcement SWAT Team Members

Estefania Castro  
Faculty Mentor: Dr. Kimberley Cousins  
Title: Octamethylcyclotetrasiloxane Interaction with Lithium Ions

Chanel Catunao  
Faculty Mentor: Dr. Nicole Dabbs  
Title: Performance-Related Characteristics of Elite Short Track Speed Skaters

Nohemy Celis  
Faculty Mentor: Dr. Jeremy Mallari  
Title: Assessment and Validation of the Malaria SYBR Green Based Fluorescence Assay to Monitor the Growth Effect of Malaria Parasites in the Presence of Synthesized Inhibitors

Valentina Chawdhury  
Faculty Mentor: Dr. Monideepa Becerra  
Title: Health Disparities among South Asians: Is Food Insecurity the Missing Link?

Jose Mora  
Faculty Mentor: Dr. Jennifer Alford  
Title: Spatiotemporal Surface Water Trends in a Headwater Stream of the San Bernardino National Forest

James Chisholm  
Faculty Mentor: Dr. Joan Fryxell  
Title: Carbon Isotope Variability Across the Hanna Basin

Elizabeth Corella  
Faculty Mentor: Dr. Nicole Dabbs  
Title: Strength Profile of Elite Speed Skaters
Tiara Crucius
Faculty Mentor: Dr. Kerry Cato
Title: Comparison of Remote Sensing Imagery for Geologic Studies

Farhan Danish
Faculty Mentor: Dr. Monideepa Becerra
Title: Food Insecurity among South Asian Immigrant Population in the Inland Empire of Southern California

Brianna Dawson
Faculty Mentor: Dr. Lesley Davidson-Boyd
Title: Addressing the Physician Shortage by Increasing the Number of Underrepresented Minority Students Matriculating into Health Professional Schools

Beatriz Delgado, Adrian Mora
Faculty Mentor: Dr. Daniel Nickerson
Title: Determining the Physiological Significance of a Rab GAP (GTPase Accelerating Protein) Found at Peroxisomes in Yeast

Joshua Robert Dimapilis
Faculty Mentor: Dr. Jeremy Dodsworth
Title: Tungsten is Required for Lab Maintenance of Aigarchaeota Group 4

Abraham Elizarraras
Faculty Mentor: Dr. Christopher Gentry
Title: Effects of Cope Health Teens on Young Adolescents

Jennifer Gallardo, Cody Atkins
Faculty Mentor: Dr. Laura Newcomb
Title: Characterizing NP Mutant Interactions to Reveal Novel Antiviral Targets

Alyssa Gallegos
Faculty Mentor: Dr. Christopher Gentry
Title: Effects of Dance on Depression, Physical Function, and Disability in Underserved Adults

Cinthia Gazca, Alexis Crisanto
Faculty Mentor: Dr. Laura Newcomb
Title: Characterizing Influenza NP Protein Interactions with Viral NS1 Factor

Luis Gomez
Faculty Mentor: Dr. Britt Leatham
Title: Analysis and Genesis of Eruptive Muds from the Southern Shore of the Salton Sea, CA

Harrison Hadsock
Faculty Mentor: Dr. Joan Fryxell
Title: Evidence for Glaciation in the Mt. San Jacinto Region

Sarah Handy, Maria Ceja, Jonathan Arnette
Faculty Mentor: Dr. Tomasz Owerkowicz
Title: The Potential Role of Osteoderms during Thermoregulation in the American Alligator

David Howard, Matthew Rodriguez, Jessica Heredia, Alexandra Khartabil, Irania Rojas
Faculty Mentors: Dr. Guillermo Escalante, Dr. Zhaojing Chen
Title: The Intra-rater Reliability of the Force Plate Peak Forces at Three Specific Time Frames

Ngoc Huynh
Faculty Mentor: Dr. Jeremy Mallari
Title: Optimizing in Vitro Assay Conditions for Metalloprotease Falcilysin

Emily Kingston
Faculty Mentor: Dr. Becky Talyn
Title: The Accumulation, Reproductive Effects, and Survival Effects of Glyphosate-Based Herbicide on Drosophila melanogaster Larvae Compared to Adult Drosophila

Jacqueline Lamas
Faculty Mentor: Dr. Kimberley Cousins
Title: Octamethylcyclotetrasiloxane (D-4) can Chelate Lithium Ions from Aqueous Solutions
Andrew Lavengood-Ryan  
Faculty Mentor: Dr. Corey Dunn  
Title: A Jordan Canonical Approach to an Indefinite Spectral Theorem

Ariel Lin  
Faculty Mentor: Dr. Daniel Nickerson  
Title: Gyp8 is a Membrane-anchored Rab GAP (GTPase Accelerating protein) whose Correct Targeting to Peroxisomes Depends Upon Chaperone Msp1

Gabriel Lopez  
Faculty Mentor: Dr. Cory Johnson  
Title: Optimizing the Construction of Self-Assembled DNA Windmill Graphs

Larry Lopez  
Faculty Mentor: Dr. Mary Kearns-Jonker  
Title: MicroRNAs that Distinguish Neonatal Cardiovascular Progenitor Cells and are Induced during Cardiovascular Repair

Cindy Mahoney  
Faculty Mentor: Dr. Monideepa Becerra  
Title: We’ve Always Been Like Kind of Kicked to the Curb*: A Qualitative Analysis on Experiences of Discrimination and its Effects on Self-Esteem Among College Students

Juan Mejia Palacios, James Ekholdt, Alexa Christopher, Dayanna Hernandez, Tuny Nguyen  
Faculty Mentor: Dr. Nicole Henley  
Title: Knowledge and Consumption Levels of Alcohol Among College Students at CSUSB

Marwa Mohamed  
Faculty Mentor: Dr. Monideepa Becerra  
Title: “You do it without their knowledge” Is Non-consensual Condom Removal the New Public Health Emergency

Damian Montes  
Faculty Mentor: Dr. Kerri Cato  
Title: Detection of Previously Unmapped Faults by Remote Sensing Mapping of a San Andreas Fault Zone transect, in the San Bernardino Mountains

Julio Mora, Jason Hernandez, Amanda Maravi, Yadira Marin  
Faculty Mentor: Dr. Guillermo Escalante  
Title: Comparison of Body Composition Techniques of DXA, BIS, and Ultrasound in College Students

Michael Murrey  
Faculty Mentor: Dr. Codi Lazar  
Title: Accessory Minerals in New Idria serpentinite

Michael Murrey  
Faculty Mentor: Dr. Codi Lazar  
Title: Improving Geoscience Education with a Public Database of 3D-printable Crystal Models

Lizeth Ortega  
Faculty Mentor: Dr. Guillermo Escalante  
Title: Physical Activity Intervention in Children with ADHD

Marlee Poff  
Faculty Mentor: Dr. Tomasz Owerkowicz  
Title: Ablation of Rostral Conchae does not affect Heat Exchange in the Upper Respiratory Tract of the Domestic Chicken

Jacob Pereyda  
Faculty Mentor: Dr. Joan Fryxell  
Title: Young Deformation in the Horse Range, Nevada

Gabriela Pocius  
Faculty Mentor: Dr. Codi Lazar  
Title: Spatial Distribution of Mordenite in Crowley Lake Columns

Erick Ramirez, Nick Ruelas, Alejandro Felix  
Faculty Mentor: Dr. Zhaojing Chen, Dr. Guillermo Escalante  
Title: Cross Calibration of Two Dual-energy X-ray Densitometers for the Measurement of Bone Mineral Density in Young Adults
Olivia Ramirez  
Faculty Mentor: Dr. Kerry Cato  
Title: *Forest Falls Debris Flows and Potential Hazard to Residents*  

Maritza Rodriguez  
Faculty Mentor: Dr. Laura Kamptner  
Title: *Boys' Caregiving Needs vs. Cultural Practices in Parenting*  

Cindy Rosales  
Faculty Mentor: Dr. Kimberley Cousins  
Title: *Bis-Guanidinium Croconate: Needles*  

Seth Clemen Saludez  
Faculty Mentor: Dr. Kerry Cato  
Title: *Determining Accurate Locations of the Mill Creek and Mission Creek fault strands near Forest Falls, California through the use of remote sensing mapping*  

Rafael Sanchez Espetunal  
Faculty Mentor: Dr. David Marshall  
Title: *Contributing Factors to the Development of Compassion Fatigue in Critical Care Nurses*  

Linda Sanderman  
Faculty Mentor: Dr. Nicole Bournias  
Title: *Characterization and Classification of Ovarian Cancer Patient Derived Cells*  

Maggie Santos  
Faculty Mentor: Dr. Becky Talyn  
Title: *Multi-generational Effects of Glyphosate on Drosophila melanogaster*  

Bryan Seymour  
Faculty Mentor: Dr. Erik Melchiorre  
Title: *The Origin of Biogenic Growths on Gold Recovered from the SS Central America Shipwreck: Implications for Geoarchaeology*  

Hannah Shields  
Faculty Mentor: Dr. Codi Lazar  
Title: *The Effect of Regolith Composition on the Growth of Invasive Grass Species in California*  

Cynthia Skjerne  
Faculty Mentor: Dr. Erik Melchiorre  
Title: *Geological Constraints on Hydrology and Endangered Species Habitat at the Desert Studies Center, Zzyzx, CA*  

Fletcher Ashley  
Faculty Mentor: Dr. Sally McGill  
Title: *Comparison of Geomorphic Expression of the Garlock Fault with the Structural Expression of the Fault in a Trench*  

Chau Vuong  
Faculty Mentor: Dr. Daniel Nickerson  
Title: *Development of a Novel Biochemical Assay for Peroxisome Biogenesis and Cargo Transport*  

**College of Social and Behavioral Sciences**  

Amanda Bain  
Faculty Mentor: Dr. Mark Agars  
Title: *Subtle Sexism and Working Women: Self Competence and Career Outcomes*  

Virginia Barbosa Mascorro, Karen Soria Cortez  
Faculty Mentor: Dr. Manijeh Badiee  
Title: *Systematic Predictors of Latina College Students’ Empowerment*  

Billy Barron  
Faculty Mentor: Dr. Laura Kamptner  
Title: *Toilet-training Children with Developmental Disabilities*
Adam Beam  
Faculty Mentor: Dr. Joseph Wellman  
Title: The Effects of Prototypicality on the Perceptions of Gay Men  

Yoselin Canizales, Constance Greenwood, Raechel Marino, Lindsey Siranni, Alana Muller  
Faculty Mentor: Dr. Richard Addante  
Title: Exploring Behavioral Correlates of a Hippocampal-Dependent Implicit Memory Measure  

Vanessa Chitry  
Faculty Mentor: Dr. Kelly Campbell  
Title: From Lovers to Liars: The Positive and Negative Features of Catfish Relationships  

Kristof Csaba  
Faculty Mentor: Dr. Kelly Campbell  
Title: The Impact of Employment Status on Depression: An Examination of Racial Differences  

Princess Egbule  
Faculty Mentor: Dr. Joseph Wellman  
Title: Diversity Structures and Whites’ Claims of Bias  

Sandra Estrada  
Faculty Mentor: Dr. Christina Hassija  
Title: The Quality of Social Reactions Received upon Disclosure Latina Survivors of Sexual Assault  

Citlalik Figueroa, Britney Boyd  
Faculty Mentor: Dr. Gisela Bichler  
Title: What Are We Seeing? Change, Evolution, or What  

Crystal Garcia De Alba  
Faculty Mentor: Dr. Stacy Forcino  
Title: Maternal Depression and Sibling Conflict  

Kori Gearhart  
Faculty Mentor: Dr. Donna Garcia  
Title: Representation of Women in Advertisements and the effects on self-objectification and self-dehumanization  

Cody Hoffman  
Faculty Mentor: Dr. Ismael Diaz  
Title: Condensed Work Schedule Implications for Employee Outcomes and Work-life Balance  

Ivette Jimenez  
Faculty Mentor: Dr. Gisela Bichler  
Title: Investigation and Exploration of Charlotte Homicides  

Roman Lopez  
Faculty Mentor: Dr. Richard Addante  
Title: Investigating the Role of Distractor Cueing in Pre-stimulus Associative Encoding Effects  

Anahi Lopez Gutierrez  
Faculty Mentor: Dr. Karen Robinson  
Title: Anti-Immigrant Sentiment  

Raechel Marino, Alana Muller, Maynori Hinton, Roman Lopez, Constance Greenwood  
Faculty Mentor: Dr. Richard Addante  
Title: Psychomotor Performance Tradeoffs in Crew Members on a NASA Analog Mission  

Ingrid Lopez  
Faculty Mentor: Dr. King-To Yeung  
Title: Does Social Media Reduce Sociability?  

Mernyll Manalo  
Faculty Mentor: Dr. Christina Hassija  
Title: The Role of Self-compassion in the Relationship between Moral Injury and Psychological Distress among Military Veterans  

Maia Matheu  
Faculty Mentor: Dr. Kate Liszka  
Title: Salvage Archaeology: 3D Modeling at Wadi el-Hudi
Marisa McCoy
Faculty Mentor: Dr. Sharon Ward
Title: Association Between Instagram Use and Depression Among Latina College Students

Alexandra Medina
Faculty Mentor: Dr. Christina Hassija
Title: The Role of Sexual Self-Schema and Psychological Distress in the Relationship between Sexual Victimization on Sexual Functioning and Satisfaction

Christopher Mendez
Faculty Mentor: Dr. Joseph Wellman
Title: Gay Black Men’s Experiences of Racism From the LGBT Community: Impact on Wellbeing

Alana Muller, Lindsey Siriani, Roman Lopez, Yoselin Canizales, Raechel Marino
Faculty Mentor: Dr. Richard Addante
Title: An Electrophysiological Exploration of Metacognitive Errors in Recognition Memory

Brandon Oliver
Faculty Mentor: Dr. Dionisio Amodeo
Title: 5-HT1B/1A Receptor Agonist RU24969 Impairs Reversal Learning in C57BL/6 Mice

Alma Pahua, Megan Emery, Antonio Gutierrez
Faculty Mentor: Dr. Dionisio Amodeo
Title: Effects of Serotonin 5-HT1A/1B Activation on Working Memory in C57BL/6J Mice

Ashlee Pardo
Faculty Mentor: Dr. Donna Garcia
Title: Social Comparison and Shifting in Quantitative Performance

Ginny Park, Jordan Taylor, Jasmine Rios
Faculty Mentor: Dr. Cynthia Crawford
Title: Fentanyl: The Effects of Early Exposure into Adulthood

Asia Pham
Faculty Mentor: Dr. Manijeh Badiee
Title: Attitudes Towards Sex Trafficking Victims: The Role of Perceived Monetary Compensation

Linda Phan
Faculty Mentor: Dr. Kelly Campbell
Title: The Impact of Racism on Mental and Physical Health

Rebekah Posadas, Alma Pahua, Marta Zarate, Jordan Taylor, Sophie Peterson, and Brandon Oliver
Faculty Mentor: Dr. Dionisio Amodeo
Title: Differences in the Expression of Restricted Repetitive Behaviors in Female BTBR T + tf/J mice

Carissa Rieger
Faculty Mentor: Dr. Stacy Forcino
Title: The Effects of Maternal Depression on Sibling Conflict

Melody Robinson
Faculty Mentor: Dr. Eugene Wong
Title: Biphobia, Rape Myth Acceptance, and Victim Blame for Bisexual Survivors of Sexual Assault

Florissell Rosales
Faculty Mentor: Dr. Eugene Wong
Title: Utilizing Cognitive Training to Remediate Working Memory in School-age Children

Berenice Rosas
Faculty Mentor: Dr. Christina Hassija
Title: The Role of Self-blame in the Relationship between Self-Efficacy and Distress among Survivors of Sexual Assault

Andreina Lopez
Faculty Mentor: Dr. Isabel Huacuja Alonso
Title: La Loteria of Narcocorridos: The Thin Line Between Celebrity and Tragedy
Elisa Sequeira Delgado, Anedia Arroyo
Faculty Mentor: Dr. Deirdre Lanesskog
Title: Foster Youths’ Perceptions of Social Worker’s Roles in Their Pursuit of Higher Education

Crystal Solano
Faculty Mentor: Dr. Joseph Wellman
Title: War Metaphors Impact on Palliative Care Stigma and Prospective Usage

Karen Soria Cortez, Virginia Barbosa Mascorro
Faculty Mentor: Dr. Manijeh Badiee
Title: Systematic Predictors of Latina Women’s Empowerment

Daniel Sprague
Faculty Mentor: Dr. Cari Goetz
Title: I’m Sexy and I Know It: The Effect of Mate Poaching on Self-perceived Mate Value

Holly Timblin
Faculty Mentor: Dr. Kelly Campbell
Title: Catfish Relationship Initiation from the Perspective of Targets and Perpetrators

Brenda Trejo
Faculty Mentor: Dr. Amy van Schagen
Title: Early Childhood Educators Beliefs

Evelyn Ulloa
Faculty Mentor: Dr. King-To Yeung
Title: Will your Parents Relationship Affect the Quality of your Romantic Relationships?

Yenny Valenzuela
Faculty Mentor: Dr. Kelly Campbell
Title: Catfish Relationships: Feelings of Love in Deceptive Romance

Stephen Ware
Faculty Mentor: Dr. Hideya Koshino
Title: The Impact of Working Memory and Anxiety on Sustained Attention in Mindfulness Meditation

Jack H. Brown College of Business and Public Administration

Jose Carreno, Manal Ibnobachir, Allan Rubio, Vianey Anguiano, Kinda Salloum
Faculty Mentor: Ms. Krystal Rawls
Title: Global Virtual Teams and Globalization

Matthew Cyr, Shamiso Peresuh
Faculty Mentor: Dr. Marc Fudge
Title: Fiscal Accountability & Control - The Impact of Eliminating RDAs on the Socioeconomic Condition of California Residents

Cynthia Hart, Benjamin Gibson, Arianna Hernandez, Nick Bogdis
Faculty Mentor: Ms. Krystal Rawls
Title: Breaking Bread - Breaking Boundaries

Art Exhibit

Andrea Clary
Faculty Mentor: Dr. Alison Petty
Title: NCECA 2019

Elvia Hernandez
Faculty Mentor: Dr. Laura Kamptner
Title: Quality of sibling relationship and Ethnicity

Aeleen Jacinto
Faculty Mentor: Dr. Alison Petty
Title: MFA Research on the Guatemala Weaver

Jessica Vierra
Faculty Mentor: Dr. Mary Fong
Title: Conceptualization of Mexican-American and Euro-American Relationships: To Be or Not to Be
“Meeting of the Minds”
Oral Presentation Schedule

**Session 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Faculty Mentor</th>
<th>Major</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00</td>
<td>Jeffrey Chance</td>
<td>Dr. Jeremy Mallari</td>
<td>Biochemistry</td>
<td>Development of Click Chemistry Probes to Investigate the Function of Falci-lysin, an Essential Malarial Protease</td>
</tr>
<tr>
<td>1:20</td>
<td>Karina Herrera</td>
<td>Dr. Becky Talyn</td>
<td>Biochemistry</td>
<td>Localization of Accumulation of Glyphosate herbicide within the body of Drosophila melanogaster, a non-target animal</td>
</tr>
<tr>
<td>1:40</td>
<td>Nikolay Maslov</td>
<td>Dr. Jeremy Mallari</td>
<td>Biochemistry</td>
<td>Developing Chemical Tools to Investigate Falci-lysin, an Essential Malarial Metalloprotease</td>
</tr>
<tr>
<td>2:00</td>
<td>Hannah Fejzic</td>
<td>Dr. Jeremy Mallari</td>
<td>Chemistry</td>
<td>Developing Chemical Inhibitors for the Malarial Protease, Falci-lysin</td>
</tr>
</tbody>
</table>

**Session 2**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1:00</td>
<td>Jasmine Colorado</td>
<td>Dr. Jeremy Murray</td>
<td>History/literature</td>
<td>Racism and Popular Culture in World War II, from Dr. Seuss to Walt Disney</td>
</tr>
<tr>
<td>1:20</td>
<td>Lixsaden Felix and Natassja Martin</td>
<td>Dr. Ryan Keating</td>
<td>History</td>
<td>The Pension Applications of Southern California’s Civil War Veterans</td>
</tr>
<tr>
<td>1:40</td>
<td>Natassja Martin</td>
<td>Dr. Ryan Keating</td>
<td>History</td>
<td>With Honor: A Comparison of WWII and Vietnam veterans</td>
</tr>
<tr>
<td>2:00</td>
<td>Celeste Nunez</td>
<td>Dr. Isabel Huacuja</td>
<td>History</td>
<td>Discovering a Purpose: The Listening Democracy of 1930-40s America</td>
</tr>
</tbody>
</table>

Location: RM 215
Time: 1:00- 2:20
Jurors: Jeremy Dodsworth, Angela Horner, Dung Vu
Category: Biological and Agricultural Sciences

Location: RM 216
Time: 1:00- 2:20
Jurors: Miriam Fernandez, Shane Burrell, Marc Fudge
Category: Humanities and Letters
Session 3

Location: RM 217
Time: 1:00- 2:20
Jurors: Salome Mshigeni, Codi Lazar, Benjamin Becerra
Category: Health, Nutrition, and Clinical Studies

1:00 Kaylie Balvaneda
Faculty Mentor: Dr. Amanda Rymal
Major: Kinesiology
Title: The Effects of Feedforward Self-modeling on Self-Efficacy Beliefs

1:20 Brigette Borjon
Faculty Mentor: Dr. Hosung So
Major: Kinesiology
Title: Common Mental Disorders in Former Male Pro Athletes

1:40 Michael Muela, Jasmine Zepeda, Elizabeth Tamez, Mirella Arana
Faculty Mentor: Dr. Younglee Kim
Major: Nursing
Title: Incivility Experienced by Nursing Students in Clinical Settings

2:00 Kelli Reynolds and Michael Ginter
Faculty Mentor: Dr. Christopher Gentry
Major: Kinesiology - Pedagogy
Title: Physical Educators’ Attitudes toward Grading Students

Session 4

Location: RM 218
Time: 1:00- 2:20
Jurors: Nerea Marteache, Erica Lizano, Arianna Huhn
Category: Behavioral and Social Sciences

1:00 Erika Banuelos Alvarado
Faculty Mentor: Dr. King-To Yeung
Major: Sociology
Title: Study of First-generation Immigrant Students who arrived to the U.S. during Childhood and their Well-being and Academic Experiences as an Adult

1:20 Hector Garcia and Yesenia Casas
Faculty Mentor: Dr. Nancy Acevedo-Gil
Major: Psychology
Title: Fostering College Access along the Education Pipeline for Students of Color

1:40 Melina Gonzalez
Faculty Mentor: Dr. David Chavez
Major: Psychology
Title: Utilizing Photovoice and Youth Advisory Boards: Collaborative Research to Strengthen Adolescent Empowerment
Session 5

Location: RM 215  
Time: 2:40-3:55  
Jurors: Kathleen Nadeau, Miriam Fernandez, Jane Chin Davidson  
Category: Humanities and Letters

2:40  **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*

3:00  **Jeanette Jetton-Rangel**  
Faculty Mentor: Dr. David Marshall  
Major: English  
Title: *The Great Oppressor: A Queer Analysis of Fear and of Silence in Carmen Maria Machado’s “The Husband Stitch” and Margaret Atwood’s “Bluebeard’s Egg”*

3:20  **Fernando Sanchez**  
Faculty Mentor: Dr. Isabel Huacuja Alonso  
Major: History  
Title: *Umm Kulthum and Aural Celebrity*

Session 6

Location: RM 216  
Time: 2:40-3:55  
Jurors: Arianna Huhn, Yasemin Dildar, Jodie Ullman  
Category: Behavioral and Social Sciences

2:40  **Sofia Benitez and Sara Ledesma**  
Faculty Mentor: Dr. Yvette Saavedra  
Major: Sociology  
Title: *Living La Mala Vida*

3:00  **Krystle De Casas**  
Faculty Mentor: Dr. Fabian Borges  
Major: Political Science  
Title: *Conditional Cash Transfers: The Global Key to Closing the Income Inequality Gap*

3:20  **Ciera Hammond**  
Faculty Mentor: Dr. Meredith Conroy  
Major: Political Science  
Title: *The Psychology of Political Efficacy and its Unanticipated Effect on Youth Voter Turnout*

3:40  **Anahi Lopez Gutierrez**  
Faculty Mentor: Dr. Karen Robinson  
Major: Sociology  
Title: *Anti-Immigrant Sentiment*
Session 7

Location: RM 217
Time: 2:40-3:55
Jurors: King-To Yeung, Jacob Jones, Kimberley Cousins
Category: Behavioral and Social Sciences/Humanities and Letters

2:40  Phuong Nguyen
Faculty Mentor: Dr. Benjamin Becerra
Major: Business Administration - Finance
Title: Motivation, Knowledge, and Confidence in Stock Market Investing Among a Diverse College Student Population: An Exploratory Study Assessing Impact of Stock Market Simulation Games

3:00  Scott Romo
Faculty Mentor: Dr. Thomas Corrigan
Major: Communication Studies
Title: Self-Radicalization in the Public Sphere: A Concept Explication of Red-Pilling

3:20  Grecia Troche
Faculty Mentor: Dr. Julie Taylor
Major: Communication Studies
Title: World’s Best Boss: An Examination of Leadership Styles on Organizational Culture using the Office

3:40  Rachel Krowel
Faculty Mentor: Dr. Alexandru Roman
Major: Sociology
Title: Does Leaders’ Childhood Impact Organizational Responsibility?

Session 8

Location: RM 218
Time: 2:40-3:55
Jurors: Manijeh Badiee, Rajrani Kalra, Annika Anderson
Category: Behavioral and Social Sciences

2:40  Sophia Josemoan, Carissa Reiger, and Crystal Garcia
Faculty Mentor: Dr. Stacy Forcino
Major: Psychology
Title: A Randomized Control Trial to Evaluate a Social Skills Training Intervention for Sibling Conflict

3:00  Ingrid Lopez
Faculty Mentor: Dr. King-To Yeung
Major: Sociology
Title: Do Social Media Reduce Sociability?

3:20  Prince Ogidikpe
Faculty Mentor: Mr. Jesse Felix
Major: Biological Psychology
Title: Disaster Doesn’t Plan Ahead but You Can

3:40  Amber Olson and Prince Siraj
Faculty Mentor: Dr. Ismael Diaz
Major: Psychology
Title: Predicting Job Performance from Personality Displayed in Video Games
Session 9

Location: RM 208
Time: 2:40-3:55
Jurors: Kenneth Shultz, Jacqueline Romano, Andrea Schoepfer
Category: Interdisciplinary

2:40  Oscar Orozco, Henry Diaz, and David Lopez-Sanchez
Faculty Mentor: Dr. Cynthia Crawford
Major: Biological Psychology
Title: Ontogeny of One Trial Fentanyl-Induced Sensitization

3:00  Michael Pierce and Marvin Macharia
Faculty Mentor: Dr. David Rhoads
Major: Biology
Title: Developing Original Functional Microbial Genomics Projects for Undergraduate Courses

3:20  Matthew Burroughs, Joseph Bunch, and Matthew Apodaca
Faculty Mentor: Dr. Jacob Jones
Major: Biological Psychology
Title: Individual Variability in Neuropsychological Performances Predicts Cognitive Decline in De Novo Parkinson's Disease

3:40  Joseph Barrera
Faculty Mentor: Dr. Kimberley Cousins
Major: Chemistry
Title: NICS Difference Determination of Relative Aromaticity

Session 10

Location: RM 211
Time: 2:40-3:55
Jurors: Victoria Seitz, Melissa Bakeman
Category: Interdisciplinary

2:40  Ariana Dorticos and Caitlin Hazelquist
Faculty Mentor: Dr. John Skillman
Major: Biochemistry
Title: Comparing Black and White Sage in CSUSB's Preserve: Why Leaf Traits and Temperatures Matter

3:00  Karina Vega
Faculty Mentor: Dr. Tomasz Owerkowicz
Major: Biology
Title: Limits to Top Speed in Hummingbirds

3:20  Ashley Fletcher
Faculty Mentor: Dr. Sally McGill
Major: Geology
Title: Comparison of Geomorphic Expression of the Garlock Fault with the Structural Expression of the Fault in a Trench

3:40  Danny Cervantes and Jacqulyne Anton
Faculty Mentor: Dr. Isabel Huacuja Alonso
Major: History
Title: Airport Noise and the Politics of Sound in San Bernardino County
**Session 11**

Location: RM 215  
Time: 4:10-5:30  
Jurors: Zachary Powell, Leslie Amodeo, Robert Ricco  
Category: Behavioral and Social Sciences

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>4:10</td>
<td>Celene Gonzalez</td>
<td>Dr. Hideya Koshino</td>
<td>Psychological Sciences</td>
<td>A Day in the Life</td>
</tr>
<tr>
<td>4:30</td>
<td>Nestor Maria</td>
<td>Dr. Cari Goetz</td>
<td>Psychology</td>
<td>Development of the Mate Expulsion Inventory</td>
</tr>
<tr>
<td>4:50</td>
<td>Alana Muller</td>
<td>Dr. Richard Addante</td>
<td>Psychological Science</td>
<td>The Neural Correlates of the Dunning-Kruger Effect</td>
</tr>
<tr>
<td>5:10</td>
<td>Edward Reminiskey</td>
<td>Dr. Timothy Pytell</td>
<td>Social Sciences and Globalization</td>
<td>The Road to Brexit: Euroscepticism, Hyperdemocracy and Political Acceleration</td>
</tr>
</tbody>
</table>

**Session 12**

Location: RM 216  
Time: 4:10-5:30  
Jurors: Jemma Kim, Maria Pares, Jacqueline Romano  
Category: Education/Humanities and Letters

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>4:10</td>
<td>Audrey Baca, Jesse Felix, Deborah Grijalva, Nelky Rodriguez, Frances Valdovinos, and Aurora Vilchis</td>
<td>Dr. Enrique Murillo</td>
<td>Educational Leadership</td>
<td>Social Interactions of International Scholars: Lessons framed using Student Identity Development Theory by a Doctoral Community of Practice</td>
</tr>
<tr>
<td>4:30</td>
<td>Matthew Atherton</td>
<td>Dr. Eun-Ok Baek</td>
<td>Instructional Technology</td>
<td>The Efficiency of Using 3D Models to Trach Lifting and Rigging Concepts to Learners of Varying Spatial Ability</td>
</tr>
<tr>
<td>4:50</td>
<td>Qi Guo</td>
<td>Dr. Michael Chen</td>
<td>Instructional Technology</td>
<td>Adaptive Chinese Character Learning Course</td>
</tr>
<tr>
<td>5:10</td>
<td>Patricia Rice’-Daniels</td>
<td>Dr. Caroline Vickers</td>
<td>English Composition/TESOL</td>
<td>Multicompetence, Multiple Intelligences, and First-Year Composition Students</td>
</tr>
</tbody>
</table>
Session 13

Location: RM 217  
Time: 4:10-5:30  
Jurors: Elizabeth Martin  
Category: Humanities and Letters

4:10  Melody Adejare  
Faculty Mentor: Dr. Mary Fong 
Major: Communication Studies 
Title: *Individualist and Collectivist Cultures: Differences in Intercultural Marriages*

4:30  Luis Esparza  
Faculty Mentor: Dr. Liliana Conlisk-Gallegos 
Major: Communication Studies 
Title: *The Right to Exist: A De-Colonial Analysis of Media Representations of Sexual Minorities*

4:50  Sean Maulding  
Faculty Mentor: Dr. Ece Algan 
Major: Communication Studies 
Title: *Pussy Hats and Anti-Trans Sentiments: When Second-Wave and Third-Wave Collide*

5:10  Heather Norwood  
Faculty Mentor: Dr. Mary Boland 
Major: English 
Title: *The Death of the Self and Agency*

Session 14

Location: RM 218  
Time: 4:10-5:30  
Jurors: Kimberley Cousins  
Category: Humanities and Letters

4:10  Amanda Salazar  
Faculty Mentor: Dr. Edna Martinez 
Major: Educational Leadership 
Title: *Exploring On-Campus Employment as a High Impact Practice*

4:30  Guadalupe Valdivia  
Faculty Mentor: Dr. John Winslade 
Major: Educational Leadership 
Title: *The Development of Academic Resiliency among Survivors of Adverse Childhood Experiences*

4:50  Sixta Payan  
Faculty Mentor: Dr. Caroline Vickers 
Major: Composition/ Applied Linguistics TESL 
Title: *EFL Teaching Practices and the Native-Speakerism Ideology*

5:10  Benjamin Shultz  
Faculty Mentor: Dr. Jose Munoz 
Major: History Concentration 
Title: *Myth and History in the nationalist rhetoric of the EZLN*
Session 15

Location: RM 208  
Time: 4:10-5:30  
Jurors: Victoria Seitz  
Category: Behavioral and Social Sciences/Business, Economics, and Public Administration

4:10  Debra Claypool  
Faculty Mentor: Dr. Kevin Grisham  
Major: Globalization and Social Sciences  
Title: Changing Land Use and the Impact of U.S. Agricultural Aid in the Republic of the Marshall Islands, 1945 to the Present: A Research Agenda

4:30  Lindsey Sirianni  
Faculty Mentor: Dr. Richard Addante  
Major: Psychology  
Title: Electrophysiology of Non-Conscious Memory Contributions to Free Recall

4:50  Francesca Maria Twohy-Haines and Jessy Salloum  
Faculty Mentor: Dr. Erica Lizano  
Major: Social Work  
Title: Volunteer Service as a Coping Strategy for Social Workers against Professional Burnout

5:10  Rachel Worrell  
Faculty Mentor: Dr. Margaret Gough  
Major: Public Administration  
Title: Assessing the Impact of the Affordable Care Act on Young Adult Cohabitation, Marriage, and Childbearing

Session 16

Location: RM 210  
Time: 4:10-5:30  
Jurors: Jeremy Mallari, Benjamin Becerra, Tomasz Owerkowicz  
Category: Biological and Agricultural Sciences

4:10  Kelly Muller  
Faculty Mentor: Dr. Becky Talyn  
Major: Biochemistry  
Title: Toxicologic Effects of Roundup® on Drosophila Melanogaster Reproductive Function

4:30  Madeline Blua  
Faculty Mentor: Dr. Kimberlyn Williams  
Major: Environmental Science  
Title: Edaphic Factors and Invasive Annuals in Chaparral and Coastal Sage Scrub

4:50  Jose Mora  
Faculty Mentor: Dr. Jennifer Alford  
Major: Earth and Environmental Science  
Title: Spatiotemporal Surface Water Trends in a Headwater Stream of the San Bernardino National Forest
Session 17

Location: RM 211  
Time: 4:10-5:30  
Jurors: John Hernandez  
Category: Behavioral and Social Sciences

4:10  Lindsey Chesus  
Faculty Mentor: Dr. Christina Hassija  
Major: Psychological Science  
Title: The Intervening Relationship of Burdensomeness and Belonging on Sexual Assault Disclosure and Mental Health

4:30  Devin Hoff and Edgar Camacho  
Faculty Mentor: Dr. Erica Lizano  
Major: Social Work  
Title: Social Work Coursework’s Impact on Student’s Phobias and Attitudes towards the Transgender Community

4:50  Mernyll Manalo  
Faculty Mentor: Dr. Christina Hassija  
Major: Psychological Science  
Title: The Role of Self-compassion in the Relationship between Moral Injury and Psychological Distress among Military Veterans

5:10  Caitlin Shaw  
Faculty Mentor: Dr. Donna Garcia  
Major: Psychological Science  
Title: The Consequences of Individual- and Group-Based Social Exclusion on Women’s Self-Regulation of Unhealthy Eating
Faculty Jurors

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

**College of Arts and Letters**
- Ms. Ariana Cano
- Dr. Jane Chin Davidson
- Dr. Miriam Fernandez
- Dr. Elizabeth Martin
- Dr. Maria Pares
- Dr. Salome Mshigeni
- Dr. Jason Ng
- Dr. Tomasz Owerkowicz
- Dr. Becky Talyn
- Dr. Dung Vu

**College of Business and Public Administration**
- Dr. Melissa Bakeman
- Dr. Benjamin Becerra
- Dr. Marc Fudge
- Ms. Krystal Rawls
- Dr. Victoria Seitz
- Dr. Leslie Amodeo
- Dr. Annika Anderson
- Dr. Manijeh Badiee
- Dr. Yasemin Dildar
- Dr. Stacy Forcino
- Dr. Shuryo Fujita
- Dr. Arianna Huhn
- Dr. Jacob Jones
- Dr. Erica Lizano
- Dr. Nerea Marteache
- Dr. Kathleen Nadeau
- Dr. Zachary Powell
- Dr. Robert Ricco
- Dr. Kenneth Shultz
- Dr. Jodie Ullman
- Dr. Douglass Weiss
- Dr. King-To Yeung

**College of Education**
- Dr. Edwin Hernandez
- Dr. Jemma Kim
- Dr. Jacqueline Romano

**College of Natural Sciences**
- Dr. Zhaojing Chen
- Dr. Kimberley Cousins
- Dr. Jeremy Dodsworth
- Dr. Angela Horner
- Dr. Rajrani Kalra
- Dr. Codi Lazar
- Dr. Jeremy Mallari

**College of Social and Behavioral Sciences**
- Dr. Leslie Amodeo
- Dr. Annika Anderson
- Dr. Manijeh Badiee
- Dr. Yasemin Dildar
- Dr. Stacy Forcino
- Dr. Shuryo Fujita
- Dr. Arianna Huhn
- Dr. Jacob Jones
- Dr. Erica Lizano
- Dr. Nerea Marteache
- Dr. Kathleen Nadeau
- Dr. Zachary Powell
- Dr. Robert Ricco
- Dr. Kenneth Shultz
- Dr. Jodie Ullman
- Dr. Douglass Weiss
- Dr. King-To Yeung

**John M. Pfay Library**
- Dr. John Hernandez
Volunteers

We would like to recognize and thank our student and staff volunteers for their time and dedication, without them, this event would not be possible.

**Students**
- Braulio Amezquita
- Cody Atkins
- Sarah Bertlett
- Kim Cardenas
- Jeffrey Chance
- Abhilasha Chavaly
- Vanessa Chitry
- Maisel Corona
- Aileen De La Torre
- Chi Duong
- Yoanna Flores-Ruiz
- Shawna Gates
- Karla Gomez
- Karla Gonzalez Gomez
- Gabriella Gonzalez
- Caroline Greenhouse
- Alliance Gueming
- Cameron Handley
- Desiree Harvell
- Guadalupe Hernandez
- Meghan MacLean
- Aileen Menddoza
- Megan Melendez
- Megan Mendoza
- Oscar Mercado
- John Montano
- John Paul Solomon
- Nicole Perez
- Kristen Rader
- Amber Ashley Tacderan
- Sharon Shalini Tewari
- Holly Timblin
- Brenda Trejo
- Sara Valdez
- Yenny Valenzuela
- Liam Van Loon
- Jay Von Monteza
- Matthew Walker
- Alexis Wilson
- Cassandra Venegas
- Felicia Zarzoso
- Vianey Zavala

**Staff**
- M. Monir Ahmed
- Mark Anderson
- Lisa Cabe
- Erminia Cross
- Cecilia Farmer
- Megan Kinnally
- April Lane
- Cathleen Lucas
- Yolanda Meyer
- Stephanie Podein
- Jessica Portillo
- Chris Songsittichok
- Tanya Valery
Acknowledgements

We would like to thank all of the faculty mentors and judges, volunteers, Sodexo catering, SMSU staff, and Printing Services who contributed their time and effort towards the success of this event.

This event is supported by the following colleges:
- Arts and Letters
- Business and Public Administration
- Education
- Natural Sciences
- Social and Behavioral Sciences

California State University, San Bernardino
The Office of Student Research

8th Annual Student Research Symposium
May 16th, 2019
Presented By
Dr. Dorota Huizinga, Provost of Academic Research
Dr. Christina Hassija, Director of the Office of Student Research
Ms. Danielle White, Administrative Support Coordinator

Contact Us
Academic Research AR 111
(909) 537-3728
osr@csusb.edu

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8th Annual
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CALIFORNIA STATE UNIVERSITY
SAN BERNARDINO

Office of Student Research