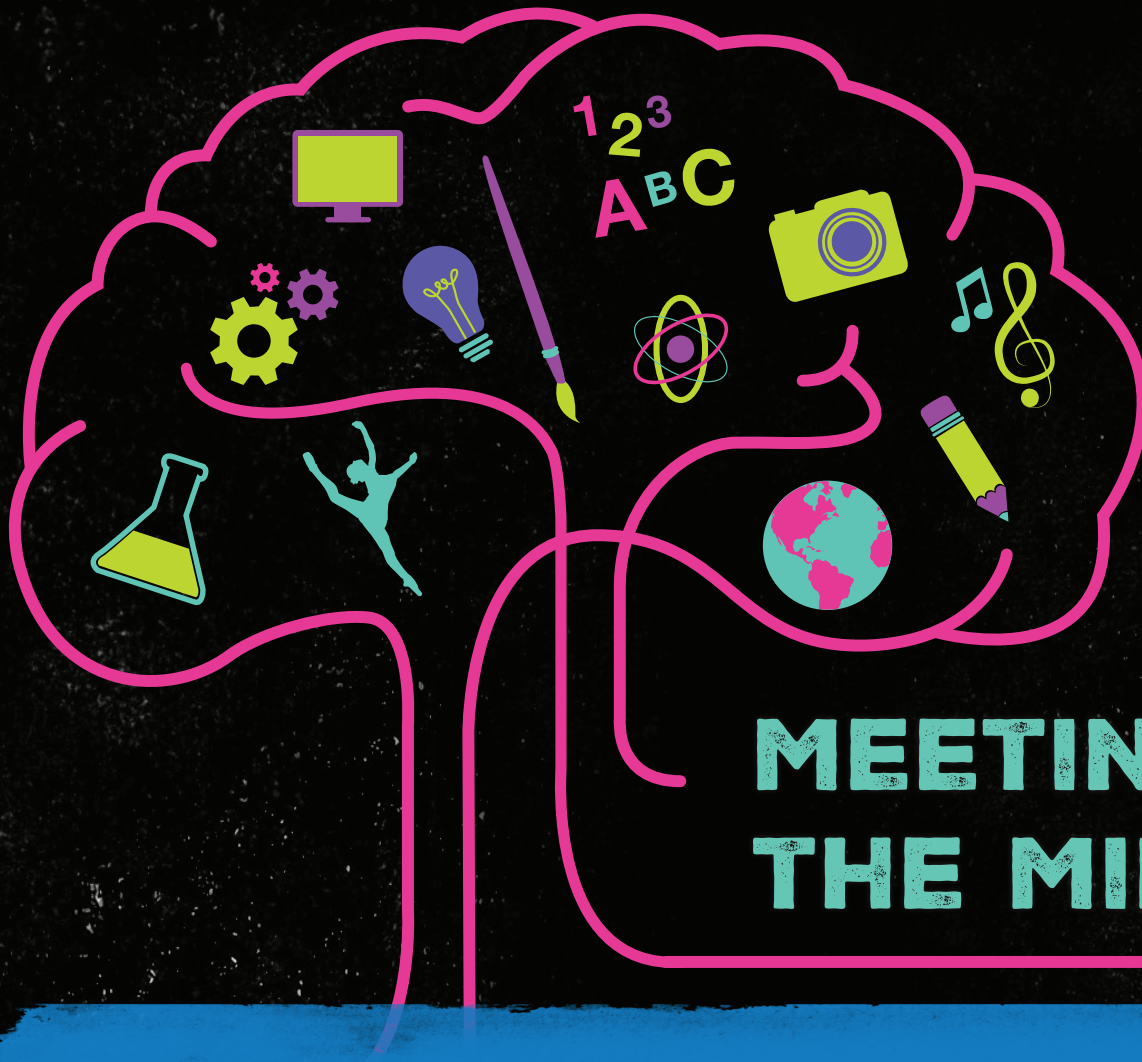


The Office of Student Research Presents the

8TH ANNUAL

STUDENT RESEARCH SYMPOSIUM



MEETING OF THE MINDS

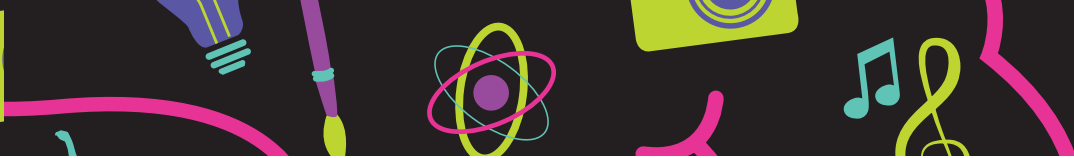
Celebrating the achievements of CSUSB's students' research and creative activity.

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



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To view student presentation abstracts, please
visit <https://scholarworks.lib.csusb.edu/osr/>

Message from Dr. Dorota Huizinga

Dr. Dorota Huizinga

Associate Provost for Academic Research
Dean of Graduate Studies



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.

Message from Dr. Christina Hassija

Dr. Christina Hassija

Faculty Director for the Office of Student Research



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.



Meeting of the Minds

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

Agenda

"Meeting of the Minds" Student Research Symposium

May 16th, 2019

8:30 - 4:30 p.m.

Registration

Event Center

9:00 - 9:30 a.m.

Opening Ceremony

SMSU Event Center A

Welcome Remarks, Dr. Dorota Huizinga
Opening Remarks, Dr. Christina Hassija
Special Remarks, President Tomás D. Morales

9:30 - 11:00 a.m.

Poster Presentations & Art Exhibits

SMSU Event Center BC

11:30 - 12:30 p.m.

Lunch

SMSU Event Center A

Outstanding Graduate Student Researcher
Awardee, Alana Muller

1:00 - 2:20 p.m.

Student Presentations Session I

SMSU Fourplex

2:40 - 3:55 p.m.

Student Presentations Session II

SMSU Fourplex

4:10 - 5:30 p.m.

Student Presentations Session III

SMSU Fourplex

Recognition of Faculty Mentors and Student Researchers Luncheon

May 17th, 2019

12:00 - 12:30 p.m.

Registration

Yasuda Center

12:30 - 12:40 a.m.

Welcome Remarks

Yasuda Center

Welcome Remarks, Dr. Dorota Huizinga

12:40 - 12:55 p.m.

Special Presentations

Yasuda Center

Outstanding Undergraduate Student Researcher
Awardee, Gabriel Lopez

Special Performance by: Nicole Perez and Han Vu

1:10 - 1:50 p.m.

Recognition and Award Ceremony

Yasuda Center

1:50 - 2:00 p.m.

Closing

Yasuda Center

Closing Remarks, Drs. Dorota Huizinga and
Christina Hassija

Outstanding Graduate Student Research 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.

Outstanding Undergraduate Student Research 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.

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 production's 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.

“Meeting of the Minds”

Poster Presenters

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*

Melissa 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 Domenigoni 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*

Joscelyn 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 V_{O2max} 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 Haddock

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 (GT-Pase 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 Skjerve

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 Badiie

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 Sirianni, 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 Sirianni, 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. Manijeh Badiee

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 Badiie

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

Location: RM 215

Time: 1:00- 2:20

Jurors: Jeremy Dodsworth, Angela Horner,
Dung Vu

Category: Biological and Agricultural Sciences

1:00 **Jeffrey Chance**

Faculty Mentor: Dr. Jeremy Mallari

Major: Biochemistry

Title: *Development of Click Chemistry Probes to Investigate the Function of Falcilysin, an Essential Malarial Protease*

1:20 **Karina Herrera**

Faculty Mentor: Dr. Becky Talyn

Major: Biochemistry

Title: *Localization of Accumulation of Glyphosate herbicide within the body of Drosophila melanogaster, a non-target animal*

1:40 **Nikolay Maslov**

Faculty Mentor: Dr. Jeremy Mallari

Major: Biochemistry

Title: *Developing Chemical Tools to Investigate Falcilysin, an Essential Malarial Metalloprotease*

2:00 **Hannah Fejzic**

Faculty Mentor: Dr. Jeremy Mallari

Major: Chemistry

Title: *Developing Chemical Inhibitors for the Malarial Protease, Falcilysin*

Session 2

Location: RM 216

Time: 1:00- 2:20

Jurors: Miriam Fernandez, Shane Burrell, Marc Fudge

Category: Humanities and Letters

1:00 **Jasmine Colorado**

Faculty Mentor: Dr. Jeremy Murray

Major: History/literature

Title: *Racism and Popular Culture in World War II, from Dr. Seuss to Walt Disney*

1:20 **Lixsaden Felix and Natassja Martin**

Faculty Mentor: Dr. Ryan Keating

Major: History

Title: *The Pension Applications of Southern California's Civil War Veterans*

1:40 **Natassja Martin**

Faculty Mentor: Dr. Ryan Keating

Major: History

Title: *With Honor: A Comparison of WWII and Vietnam veterans*

2:00 **Celeste Nunez**

Faculty Mentor: Dr. Isabel Huacuja

Major: History

Title: *Discovering a Purpose: The Listening Democracy of 1930-40s America*

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 Jacquelyne 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

4:10 **Celene Gonzalez**

Faculty Mentor: Dr. Hideya Koshino

Major: Psychological Sciences

Title: *A Day in the Life*

4:30 **Nestor Maria**

Faculty Mentor: Dr. Cari Goetz

Major: Psychology

Title: *Development of the Mate Expulsion Inventory*

4:50 **Alana Muller**

Faculty Mentor: Dr. Richard Addante

Major: Psychological Science

Title: *The Neural Correlates of the Dunning-Kruger Effect*

5:10 **Edward Reminiskey**

Faculty Mentor: Dr. Timothy Pytell

Major: Social Sciences and Globalization

Title: *The Road to Brexit: Euroscepticism, Hyperdemocracy and Political Acceleration*

Session 12

Location: RM 216

Time: 4:10-5:30

Jurors: Jemma Kim, Maria Pares, Jacqueline Romano

Category: Education/Humanities and Letters

4:10 **Audrey Baca, Jesse Felix, Deborah Grijalva, Nelky Rodriguez, Frances Valdovinos, and Aurora Vilchis**

Faculty Mentor: Dr. Enrique Murillo

Major: Educational Leadership

Title: *Social Interactions of International Scholars: Lessons framed using Student Identity Development Theory by a Doctoral Community of Practice*

4:30 **Matthew Atherton**

Faculty Mentor: Dr. Eun-Ok Baek

Major: Instructional Technology

Title: *The Efficiency of Using 3D Models to Track Lifting and Rigging Concepts to Learners of Varying Spatial Ability*

4:50 **Qi Guo**

Faculty Mentor: Dr. Michael Chen

Major: Instructional Technology

Title: *Adaptive Chinese Character Learning Course*

5:10 **Patricia Rice'-Daniels**

Faculty Mentor: Dr. Caroline Vickers

Major: English Composition/TESOL

Title: *Multicompetence, Multiple Intelligences, and First-Year Composition Students*

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

Jack H. Brown

College of Business and Public Administration

Dr. Melissa Bakeman
Dr. Benjamin Becerra
Dr. Marc Fudge
Ms. Krystal Rawls
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College of Natural Sciences

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Dr. Rajrani Kalra
Dr. Codi Lazar
Dr. Jeremy Mallari

Dr. Salome Mshigeni
Dr. Jason Ng
Dr. Tomasz Owerkowicz
Dr. Becky Talyn
Dr. Dung Vu

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
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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

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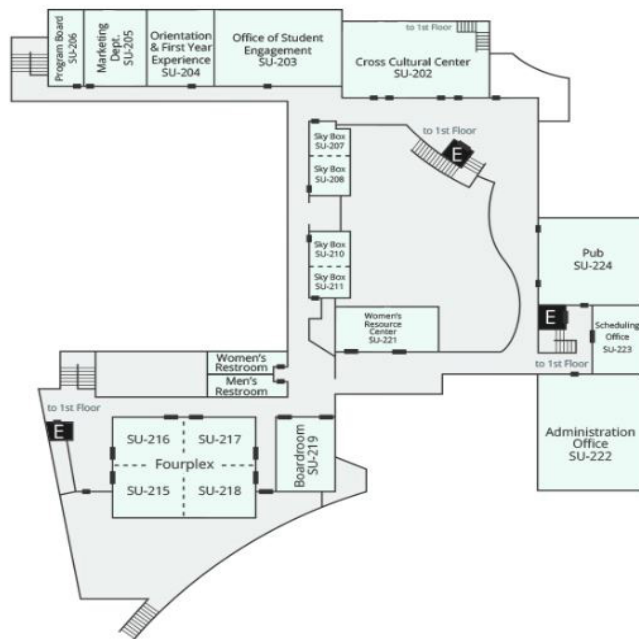
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8th Annual
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Office of Student Research