CALIFORNIA STATE UNIVERSITY, LONG BEACH

STUDENT RESEARCH COMPETITION

Showcasing excellence in scholarly research, and highlighting creative activity

March 19, 2021 | 9am-1pm
Virtually Held through Zoom
If you are a guest wanting to attend a specific session, please log on to Zoom via the Main Room Link for SRC on the day of the competition Friday, March 19th, and someone will assist you in getting the appropriate Zoom link for a specific session.

**Zoom Room 1:** Behavioral & Social Sciences  
**Zoom Room 2:** Creative Arts & Design  
**Zoom Room 3:** Engineering & Computer Science  
**Zoom Room 4:** Business, Economics, & Public Administration  
**Zoom Room 4:** Health, Nutrition, & Clinical Sciences  
**Zoom Room 5:** Physical & Mathematical Sciences  
**Zoom Room 6:** Behavioral & Social Sciences  
**Zoom Room 7:** Education  
**Zoom Room 8:** Humanities & Letters  
**Zoom Room 9:** Biological & Agricultural Sciences
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:15AM-9:30AM</td>
<td><strong>India Rockett, Health Science</strong>&lt;br&gt;Faculty Sponsor: Roudi Roy&lt;br&gt;Title: Educating and Parenting: The Experiences of African American and Latino Fathers on College Campuses</td>
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<tr>
<td>9:30AM-9:45AM</td>
<td><strong>Andriana Niederecker, Linguistics</strong>&lt;br&gt;Faculty Sponsor: Michael Ahland&lt;br&gt;Title: Pahka’anil Word Order in Tübatulabal Autobiographical Text</td>
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<td>9:45AM-10:00AM</td>
<td><strong>Sukhman Rekhi, Psychological Research</strong>&lt;br&gt;Contributor: Ryan Stair, Cody Trinkle-Winzeler&lt;br&gt;Faculty Sponsor: Danielle Kohfeldt&lt;br&gt;Title: Understanding the COVID-19 Pandemic through a Neoliberal Lens</td>
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<tr>
<td>10:00AM-10:15AM</td>
<td><strong>Vanessa Diaz, Criminology &amp; Criminal Justice</strong>&lt;br&gt;Faculty Sponsor: Nicholas Perez&lt;br&gt;Title: Gender, legal cynicism, and the likelihood of becoming a police officer</td>
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<tr>
<td>10:15AM-10:30AM</td>
<td><strong>Jianna Florek, Criminology &amp; Criminal Justice</strong>&lt;br&gt;Faculty Sponsor: Dina Perrone&lt;br&gt;Title: Big Events, COVID-19, Drug Use, and Drug Markets</td>
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<tr>
<td>10:30AM-10:45AM</td>
<td><strong>Alejandra Guzman, Criminology &amp; Criminal Justice</strong>&lt;br&gt;Contributor: Christine Scott-Hayward&lt;br&gt;Title: Sentencing the Forgotten</td>
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<tr>
<td>10:45AM-11:00AM</td>
<td><strong>Nicolas Visnjevic, Psychological Research</strong>&lt;br&gt;Faculty Sponsor: Young-Hee Cho&lt;br&gt;Title: Physical and Cognitive Dual-task Intervention For Fall Risk Reduction In Community Dwelling Older Adults</td>
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<tr>
<td>11:00AM-11:15AM</td>
<td><strong>Mark Ortiz-Payne, Psychology</strong>&lt;br&gt;Faculty Sponsor: Danielle Kohfeldt&lt;br&gt;Title: Community in Fandom: How LGBTQ+ Fans Create and Elevate</td>
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</table>
Friday, March 19, 2021

Behavioral and Social Sciences

11:15AM-11:30AM  
**Roshni Choksi, Psychology**  
*Faculty Sponsor: James Miles*  
*Title: Autism Spectrum Disorder (ASD) and Perspective - Taking in the Affective Compatibility Test: Research Proposal*

11:30AM-11:45AM  
**Claudine Maloles, Child Development and Family Studies**  
*Faculty Sponsor: Kimberly Kelly*  
*Title: High Impact Practices: Internships Correlating to Student Success*

11:45AM-12:00PM  
**Lizbeth Millan, Social Work**  
*Faculty Sponsor: Kimberly Kelly*  
*Title: Aquarium conversations: Linking parental elaborative talk to child STEM talk during and after informal learning*

12:00PM-12:15PM  
**Jesse Ramirez, Social Work**  
*Faculty Sponsor: Kristina Lovato*  
*Title: The Value of Essential People: The Impact of COVID-19 on Latinx Immigrant Families*

12:15PM-12:30PM  
**Tyler Nelson, Psychology**  
*Faculty Sponsor: Arturo Zavala*  
*Title: Modeling adolescent ethanol preference in male and female Sprague-Dawley rats*

12:30PM-12:45PM  
**Tiffany Gonzalez, Psychology**  
*Faculty Sponsor: Arturo Zavala*  
*Title: Zolmitriptan as a Potential Pharmacological Treatment for Meth Addiction*

12:45PM-1:00PM  
**Jennifer Le, Psychology**  
*Faculty Sponsor: Courtney Ahrens*  
*Title: Financial Needs Expressed by Survivors of Intimate Partner Violence*
Creative Arts and Design

9:15AM-9:30AM  
Jaqueline Hernandez, Design  
Faculty Sponsor: Michael LaForte  
Title: Driving Into Education

9:30AM-9:45AM  
Miriam Daniel, Technical Theatre  
Faculty Sponsor: Ezra LeBank  
Title: Sound Design with Bossy Flyer and Adapting to COVID-19 Theatre

9:45AM-10:00AM  
Morgan Darden, Interior Design  
Faculty Sponsor: Michael LaForte  
Title: Reshaping Landscaping

10:00AM-10:15AM  
Arin Stevens, Pre-Industrial Design  
Contributor: Noah Stevens  
Faculty Sponsor: Michael LaForte  
Title: Material Sustainability in Rapid Prototyping

10:15AM-10:30AM  
Beril Ural, Interior Design  
Faculty Sponsor: Michael LaForte  
Title: Grow-A-Home

11:00AM-11:15AM  
Ian Appelgate, Industrial Design  
Faculty Sponsor: Michael LaForte  
Title: Water Sanitation Station

11:15AM-11:30AM  
Shenaya Yazdani, Industrial Design  
Faculty Sponsor: Michael LaForte  
Title: 'Coming Home' Refugee Shelter Design

11:30AM-11:45AM  
Callum Ritchie, Industrial Design  
Faculty Sponsor: Michael LaForte  
Title: Alset, simplifying AC charging options for EVs
Zoom Room 3

Friday, March 19, 2021

Engineering and Computer Science

9:15AM-9:30AM  Ian Holmes, Aerospace Engineering
Faculty Sponsor: Daniel Whisler
Title: Structural Reinforcement Analysis to Improve Automobile Safety

9:30AM-9:45AM  Jose Alberto Mendoza, Aerospace Engineering
Contributor: Pyae Su
Faculty Sponsor: Eun Jung Chae
Title: Parametric Study of Trailing-Edge Morphing Wings

9:45AM-10:00AM  Jessica Blair, Biomedical Engineering
Contributor: Nia Marie Sanchez
Faculty Sponsor: Ga-Young Suh
Title: Cardiovascular Research on Valve Replacement and Repair

10:00AM-10:15AM  Leila Deeb, Biomedical Engineering
Contributor: Jill Starkey
Faculty Sponsor: Ga-Young Suh
Title: Vascular Stent Design using 3D Printing Mechanics and Composite Materials

10:15AM-10:30AM  Jack Hanson, Chemical Engineering
Faculty Sponsor: Sara Moghtadernejad
Title: Effect of Humidity and Temperature on Impact Dynamics of Sessile Drops

10:30AM-10:45AM  Nelson Minaya, Computer Science
Contributor: Sella Bae
Faculty Sponsor: Jucheol Moon
Title: Explainable Gait Recognition with Prototyping Encoder–Decoder

10:45AM-11:00AM  Anderson Hoang, Biomedical Engineering
Faculty Sponsor: Perla Ayala
Title: Role of Matricellular Protein CCN1 on Fibroblasts in a 3D Model

11:00AM-11:15AM  Monil Shah, Computer Engineering and Computer Science
Faculty Sponsor: Vahid Balali
Title: Impact of Environmental Factors on Driver’s Behavior
Zoom Room 4

Friday, March 19, 2021

Business, Economics, and Public Administration

11:00AM-11:15AM

Taz Iqbal, *Business Economics*
Faculty Sponsor: Gigi Moreno
Title: Desalination: Poseidon Would Be Upset

11:15AM-11:30AM

Kiara Torres, *Political Science*
Faculty Sponsor: Douglas Cantor
Title: Comparative Analysis of Rent Regulation in New York City and Los Angeles

11:30AM-11:45AM

Anneliese Yuenger, *Psychology*
Contributor: Dominic Shafer
Faculty Sponsor: Jonathan Phan
Title: The structural validity of vocational interest across working lifespan in the US

11:45AM-12:00PM

Elena Kotanchyan, *Economics*
Faculty Sponsor: Steve Yamarik
Title: The Impact of Education on Income Inequality: Cross-Country Analysis
Health, Nutrition, and Clinical Sciences

10:15AM-10:30AM  
**Jalyssa Felix, Molecular Cell Biology and Physiology**  
**Faculty Sponsor:** Bryan Rourke  
**Title:** Myoglobin Expression in Mice Bred for High-Wheel Running

10:30AM-10:45AM  
**Joshua Murillo, Psychology**  
**Faculty Sponsor:** Guido Urizar  
**Title:** The Effects of Relaxation Skills on Levels of Stress and Depression in Pregnant Women: Role of Socioeconomic Factors

10:45AM-11:00AM  
**Rhianna Wicken, Anthropology**  
**Faculty Sponsor:** Trevor Bell  
**Title:** Transitional care: Understanding healthcare providers’ perceived barriers when working with adolescents with type 1 diabetes

12:00PM-12:15PM  
**Amanda Finn, Kinesiology Exercise Science**  
**Faculty Sponsor:** Evan Schick  
**Title:** Lose Weight, but Make it ‘Grammable: An Observational Analysis of Weight Loss Hashtags Using the Instagram Graph API

12:15PM-12:30PM  
**Madeleine Phan, Biochemistry**  
**Contributor:** Vy Hai Nguyen  
**Faculty Sponsor:** Jackie Dawson  
**Title:** Videoconference exercise during the COVID-19 pandemic to increase physical activity and adherence: a pilot randomized controlled trial

12:30PM-12:45PM  
**Aeres Cross, Sport and Exercise Psychology**  
**Faculty Sponsor:** Alison Ede  
**Title:** The Impact of Social Media on the prevalence of Body Image Dissatisfaction in male and female bodybuilders and exercisers

12:45PM-1:00PM  
**Diana Pham, Psychology**  
**Faculty Sponsor:** Arturo Zavala  
**Title:** Periadolescent Rats Exhibit Preference for Ethanol Under a Fixed, but Not an Ascending Dosing Pattern of Administration
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<td>9:15AM-9:30AM</td>
<td><strong>Andrew Le, Applied Statistics</strong>&lt;br&gt;Faculty Sponsor: Tianni Zhou&lt;br&gt;Title: A Bayesian semi-parametric approach for analysis of university student data</td>
</tr>
<tr>
<td>9:30AM-9:45AM</td>
<td><strong>Danna De Boer, Chemistry</strong>&lt;br&gt;Faculty Sponsor: Eric Sorin&lt;br&gt;Title: Overcoming the Heuristic Nature of k Means Clustering: Identification and Characterization of Binding Modes from Simulations of Molecular Recognition Complexes</td>
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<tr>
<td>9:45AM-10:00AM</td>
<td><strong>Francisco Ramirez, Physics</strong>&lt;br&gt;Faculty Sponsor: Claudia Ojeda-Aristizabal&lt;br&gt;Title: Proximity effects in metallo-organic molecules/graphene heterostructures</td>
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<tr>
<td>10:00AM-10:15AM</td>
<td><strong>Derek Bergner, Physics</strong>&lt;br&gt;Faculty Sponsor: Claudia Ojeda-Aristizabal&lt;br&gt;Title: Probing the Electronic Band Structure of the Ferromagnetic Semiconductor VI3 using Angle Resolved Photo Emission Spectroscopy</td>
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<td>10:15AM-10:30AM</td>
<td><strong>Christina Meadows, Geology</strong>&lt;br&gt;Faculty Sponsor: Benjamin Klaus Hagedorn&lt;br&gt;Title: Application of the USGS soil-water-balance 2.0 (SWB) model to estimate mountain-front recharge to the South Fork Tule River</td>
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<td>10:30AM-10:45AM</td>
<td><strong>Steven Guillen, Biochemistry</strong>&lt;br&gt;Faculty Sponsor: Fangyuan Tian&lt;br&gt;Title: Experimental and Computational Studies of MIL-88B(Fe) on COOH-Terminated Functionalized Gold Surfaces</td>
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Behavioral and Social Sciences

9:15AM-9:30AM  Christie Nolasco, Sociology
Faculty Sponsor: Kerry Woodward
Title: Beauty is in the Eye of the Brand: A Content Analysis of Representation within Cosmetic Companies

9:30AM-9:45AM  Bethany Thompson, International Studies
Faculty Sponsor: Claudia López
Title: Understanding Displacement in Medellín, Colombia

9:45AM-10:00AM  Alfonso Bascos, Linguistics
Faculty Sponsor: Rebekha Abbuhl
Title: Linguistic Predictors of Deception

10:00AM-10:15AM  Mallory Grismer, Linguistics (TESOL emphasis)
Faculty Sponsor: Rebekha Abbuhl
Title: CLI and information packaging: The effect of Spanish L1 patterns of passive and passive-like syntactic voice on L2 English discourse

10:15AM-10:30AM  Meghan Orr, Social Work
Faculty Sponsor: Suzie Weng
Title: In Pursuit of Social Justice: Cambodian American Social Services Providers’ Commitment to Social Responsibility among Cambodian Americans

10:30AM-10:45AM  Esther Choe, Psychology
Faculty Sponsor: Nicholas Alt
Title: Family Perfectionism, Family Stress, and Stress Event Load among Asian Americans

10:45AM-11:00AM  Camryn McInerney, Psychology
Faculty Sponsor: Courtney Ahrens
Title: Financial Strategies and Goals Utilized by Survivors of Intimate Partner Violence

11:00AM-11:15AM  Jennifer Wong Chavez, Psychology
Faculty Sponsor: Nicholas Alt
Title: Empowered to Confront: Associations between Power and the Confrontation of Sexist Behaviors
Behavioral and Social Sciences

11:15AM-11:30AM  
Brianna Rios, Psychology  
Faculty Sponsor: Courtney Ahrens  
Title: The Impact of Witnessing Domestic Violence on Children: Mother’s Perspectives

11:30AM-11:45AM  
Dominic Shafer, Psychology  
Contributor: Anneliese Yuenger  
Faculty Sponsor: Jonathan Phan  
Title: Examining the structural validity of vocational interest in 46 countries.

11:45AM-12:00PM  
Grace Ocular, Education Option in Dual Language Development  
Faculty Sponsor: Kimberly Kelly  
Title: "It's Dory": Children's Science Language Progression in Aquarium
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<th>Time</th>
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| 10:15AM-10:30AM | **German Aguilar Tinajero**, *Education, Social and Cultural Analysis of Education*  
**Faculty Sponsor:** Lindsay Pérez Huber  
**Title:** Uncertain Futures: An Examination of Undocumented Student's Post Baccalaureate Educational Trajectory |
| 10:30AM-10:45AM | **Amy Tran**, *School Psychology*  
**Faculty Sponsor:** Kristin Powers  
**Title:** LGBTQ Students with Intellectual Disabilities in Postsecondary Education |
| 10:45AM-11:00AM | **Langdon Holmes**, *Linguistics*  
**Faculty Sponsor:** Sarvenaz Hatami  
**Title:** Out-of-school Exposure to English as a Foreign Language and Vocabulary Acquisition |
| 11:00AM-11:15AM | **Rory Papworth**, *School Psychology*  
**Faculty Sponsor:** Jacob Olsen  
**Title:** The Impact of PBIS Implementation Fidelity on Academic Outcomes |
| 11:15AM-11:30AM | **Katherine Lacy**, *School Psychology*  
**Faculty Sponsor:** Kristi Hagans  
**Title:** Student- and School-Level Factors Associated with School Suspensions: A Multi-Level Analysis |
| 11:30AM-11:45AM | **Dennis Feinland**, *Music Education*  
**Faculty Sponsor:** Joshua Palkki  
**Title:** Honoring Trans and Gender Expansive Students in Music Education |
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<th>Title</th>
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<td>9:30AM-9:45AM</td>
<td>Caitlin Mace, Philosophy</td>
<td>Engrams and Optogenetics: Defending a Mechanistic Explanation of Memory</td>
<td>Cory Wright</td>
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<tr>
<td>9:45AM-10:00AM</td>
<td>Ryan C. Lam, Philosophy</td>
<td>Moral Realism and the Two Facets of Moral Truth</td>
<td>Nicholas Laskowski</td>
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<tr>
<td>10:00AM-10:15AM</td>
<td>Keilee Bessho, Philosophy</td>
<td>The Importance of Knowing Weighty Reasons in Deliberation</td>
<td>Nicholas Laskowski</td>
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<td>10:15AM-10:30AM</td>
<td>Christina Saoud, Religious Studies</td>
<td>Modes of Othering in Islam: Homosexuality, Religious Diversity, and Peaceful Dialogues</td>
<td>David Stewart</td>
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<td>10:30AM-10:45AM</td>
<td>Gillian Duane, Classics</td>
<td>Genderqueer Rome</td>
<td>Kathryn Chew</td>
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<td>10:45AM-11:00AM</td>
<td>Althea Gevero, Communication Studies</td>
<td>Civil Discourse and the Implications of Modern Electronically Mediated Communication</td>
<td>Stephanie Hartzell</td>
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<tr>
<td>11:15AM-11:30AM</td>
<td>Emily Wysocki, German Studies</td>
<td>Immanuel Kant on the Moral Democratic Republic and the Original Sins of the United Nations</td>
<td>Jeffrey High</td>
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<tr>
<td>11:45AM-12:00PM</td>
<td>Kelly Sturgeon, Linguistics (TESOL)</td>
<td>Perceptions of Spanish-speaking University Students on Code-Switching and Spanglish: An Examination of Sociocultural Factors Affecting Attitudes</td>
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<td>Faculty Sponsor: Rebekha Abuhl</td>
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<td>12:00PM-12:15PM</td>
<td>Michael Lara, Philosophy</td>
<td>Intellectualists Get a Failing Grade at Gradability</td>
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<td>Faculty Sponsor: Charles Wallis</td>
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<td>12:15PM-12:30PM</td>
<td>Julia MacLaren, Psychological Research</td>
<td>Experiences of Economic Abuse by Survivors of Intimate Partner Violence</td>
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<td>10:30AM-10:45AM</td>
<td>Joseline Aquino, Molecular Cell Biology and Physiology</td>
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<td></td>
<td>Faculty Sponsor: Hadi Tavassol</td>
<td>Title: Investigating the pH-dependent proton influx induced by 2,4-Dinitrophenol</td>
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</table>
| 10:45AM-11:00AM | Abbas Abdulhasan, Molecular Cell Biology & Physiology | Faculty Sponsor: Vasanthy Narayanaswami  
|              |                             | Title: Structural and Functional Consequences of Apolipoprotein E3 and E4 Modification by 4 Hydroxynonenal, A Lipid Peroxidation Product |
| 11:00AM-11:15AM | Erin Pierce, Marine Biology | Faculty Sponsor: Chris Lowe  
|              |                             | Title: Size Estimates of White Sharks using Parallel Lasers at Guadalupe Island, Mexico |
| 11:15AM-11:30AM | James Chhor, Biology | Faculty Sponsor: Darren Johnson  
|              |                             | Title: Effects of microplastic exposure on the growth and survival of larval California grunion (Leuresthes tenuis) |
| 11:30AM-11:45AM | Jose Martin, Biochemistry | Faculty Sponsor: Elena Grintsevich  
|              |                             | Title: Unraveling the Effects of MICAL-induced Oxidation on Muscle and Cytoplasmic Actins |
Special Thanks

Committee
Jody Cormack, Vanessa Diaz, Mae DeBruin, Juliette Hidalgo, Kerry Johnson, Simon Kim, Elyzza Aparicio, Meliana Prado, Michelle Ramirez, Bryan Rodriguez, Saron Shiferaw, Ammisha Opoku-Boamah

Partners
Graduate Studies Resource Center, Office of the Provost, Office of Research and Sponsored Programs, Office of Undergraduate Research Services, Undergraduate Research Opportunity Program, Office of Graduate Studies

Moderators
Bryan Rodriguez, Saron Shiferaw, Penelope Gaibor, Cathi Cribbins, Nicole Streiker, Cecilia Paredes, Rocio Mendoza, Omar Hussein, Sara Castro, Elyzza Aparicio

Jurors
Juror names are not revealed, yet, they are sent a special thanks and signed certificate from Associate Vice President of Research and Sponsored Programs Dr. Simon Kim