



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](#)



Zoom Room Overview

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

Zoom Room 1

Friday, March 19, 2021

Behavioral and Social Sciences

9:15AM-9:30AM

India Rockett, *Health Science*

Faculty Sponsor: Roudi Roy

Title: Educating and Parenting: The Experiences of African American and Latino Fathers on College Campuses

9:30AM-9:45AM

Andriana Niederecker, *Linguistics*

Faculty Sponsor: Michael Ahland

Title: Pahka'anil Word Order in Tübatulabal Autobiographical Text

9:45AM-10:00AM

Sukhman Rekhi, *Psychological Research*

Contributor: Ryan Stair, Cody Trinkle-Winzeler

Faculty Sponsor: Danielle Kohfeldt

Title: Understanding the COVID-19 Pandemic through a Neoliberal Lens

10:00AM-10:15AM

Vanessa Diaz, *Criminology & Criminal Justice*

Faculty Sponsor: Nicholas Perez

Title: Gender, legal cynicism, and the likelihood of becoming a police officer

10:15AM-10:30AM

Jianna Florek, *Criminology & Criminal Justice*

Faculty Sponsor: Dina Perrone

Title: Big Events, COVID-19, Drug Use, and Drug Markets

10:30AM-10:45AM

Alejandra Guzman, *Criminology & Criminal Justice*

Contributor:

Faculty Sponsor: Christine Scott-Hayward

Title: Sentencing the Forgotten

10:45AM-11:00AM

Nicolas Visnjevic, *Psychological Research*

Faculty Sponsor: Young-Hee Cho

Title: Physical and Cognitive Dual-task Intervention For Fall Risk Reduction In Community Dwelling Older Adults

11:00AM-11:15AM

Mark Ortiz-Payne, *Psychology*

Faculty Sponsor: Danielle Kohfeldt

Title: Community in Fandom: How LGBTQ+ Fans Create and Elevate

Zoom Room 1

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

Zoom Room 2

Friday, March 19, 2021

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

Zoom Room 4

Friday, March 19, 2021

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

Zoom Room 5

Friday, March 19, 2021

Physical and Mathematical Sciences

9:15AM-9:30AM

Andrew Le, *Applied Statistics*

Faculty Sponsor: Tianni Zhou

Title: A Bayesian semi-parametric approach for analysis of university student data

9:30AM-9:45AM

Danna De Boer, *Chemistry*

Faculty Sponsor: Eric Sorin

Title: Overcoming the Heuristic Nature of k Means Clustering: Identification and Characterization of Binding Modes from Simulations of Molecular Recognition Complexes

9:45AM-10:00AM

Francisco Ramirez, *Physics*

Faculty Sponsor: Claudia Ojeda-Aristizabal

Title: Proximity effects in metallo-organic molecules/graphene heterostructures

10:00AM-10:15AM

Derek Bergner, *Physics*

Faculty Sponsor: Claudia Ojeda-Aristizabal

Title: Probing the Electronic Band Structure of the Ferromagnetic Semiconductor VI₃ using Angle Resolved Photo Emission Spectroscopy

10:15AM-10:30AM

Christina Meadows, *Geology*

Faculty Sponsor: Benjamin Klaus Hagedorn

Title: Application of the USGS soil-water-balance 2.0 (SWB) model to estimate mountain-front recharge to the South Fork Tule River

10:30AM-10:45AM

Steven Guillen, *Biochemistry*

Faculty Sponsor: Fangyuan Tian

Title: Experimental and Computational Studies of MIL-88B(Fe) on COOH-Terminated Functionalized Gold Surfaces

Zoom Room 6

Friday, March 19, 2021

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

Zoom Room 6

Friday, March 19, 2021

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

Education

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

Zoom Room 8

Friday, March 19, 2021

Humanities and Letters

9:30AM-9:45AM

Caitlin Mace, *Philosophy*

Faculty Sponsor: Cory Wright

Title: Engrams and Optogenetics: Defending a Mechanistic Explanation of Memory

9:45AM-10:00AM

Ryan C. Lam, *Philosophy*

Faculty Sponsor: Nicholas Laskowski

Title: Moral Realism and the Two Facets of Moral Truth

10:00AM-10:15AM

Keilee Bessho, *Philosophy*

Faculty Sponsor: Nicholas Laskowski

Title: The Importance of Knowing Weighty Reasons in Deliberation

10:15AM-10:30AM

Christina Saoud, *Religious Studies*

Faculty Sponsor: David Stewart

Title: Modes of Othering in Islam: Homosexuality, Religious Diversity, and Peaceful Dialogues

10:30AM-10:45AM

Gillian Duane, *Classics*

Faculty Sponsor: Kathryn Chew

Title: Genderqueer Rome

10:45AM-11:00AM

Althea Gevero, *Communication Studies*

Faculty Sponsor: Stephanie Hartzell

Title: Civil Discourse and the Implications of Modern Electronically Mediated Communication

11:15AM-11:30AM

Emily Wysocki, *German Studies*

Faculty Sponsor: Jeffrey High

Title: Immanuel Kant on the Moral Democratic Republic and the Original Sins of the United Nations

11:30AM-11:45AM

Jacqueline Zambrano, *History*

Faculty Sponsor: Jane Dabel

Title: African American Women's Contribution from Within the Shadows: Civil Rights Movement, 1954-1968

Zoom Room 8

Friday, March 19, 2021

Humanities and Letters

11:45AM-12:00PM

Kelly Sturgeon, *Linguistics (TESOL)*

Faculty Sponsor: Rebekha Abbuhl

Title: Perceptions of Spanish-speaking University Students on Code-Switching and Spanglish: An Examination of Sociocultural Factors Affecting Attitudes

12:00PM-12:15PM

Michael Lara, *Philosophy*

Faculty Sponsor: Charles Wallis

Title: Intellectualists Get a Failing Grade at Gradability

12:15PM-12:30PM

Julia MacLaren, *Psychological Research*

Contributor: Jessica Gonzalez

Faculty Sponsor: Courtney Ahrens

Title: Experiences of Economic Abuse by Survivors of Intimate Partner Violence

Zoom Room 9

Friday, March 19, 2021

Biological and Agricultural Sciences

10:30AM-10:45AM

Joseline Aquino, *Molecular Cell Biology and Physiology*

Faculty Sponsor: Hadi Tavassol

Title: Investigating the pH-dependent proton influx induced by 2,4-Dinitrophenol

10:45AM-11:00AM

Abbas Abdulhasan, *Molecular Cell Biology & Physiology*

Faculty Sponsor: Vasanthi 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