California State University
Long Beach
Presents
31st Annual
Student Research Competition
FNU Abdul Ahad Khan

Title: Using Latent Heat of Phase Change Materials to Modify Transient Heating of Evaporating Drops
Faculty Sponsor: Navdeep Dhillon
Discipline: Engineering and Computer Science

Joshua Acosta

Title: The Enlightenment and the Question of Rights: Women in the French Revolution, 1789-1793
Faculty Sponsor: Guotong Li
Discipline: Humanities and Letters

Jack Aldrich

Contributors: Savannah M. Roussel, Melissa Yang, Stephanie M. Araiza
Title: Separation of Methane and Carbon Dioxide using hybrid ZIF-95/Zeolite Material
Faculty Sponsor: Fangyuan Tian
Discipline: Physical and Mathematical Sciences

Leslie Alvarez

Contributor: Michael Drake
Title: 3D Printed Molds for Flexible Composite Armor
Faculty Sponsor: Daniel Whisler
Discipline: Engineering and Computer Science

Avery Amerson

Title: Wittgenstein, Extended Cognition, and the Problem of Other Minds
Faculty Sponsor: Cory Wright
Discipline: Humanities and Letters
Hailey Arreola

Contributor: Hanna MacNew
Title: Do The Use of Tablets Lead to More Information Being Recorded and Better Accuracy in Short-Term Memory Tasks
Faculty Sponsor: Kim-Phuong Vu
Discipline: Behavioral and Social Sciences

Adriana Barroso

Title: A Future Teacher's Experience of Mathematical Research
Faculty Sponsor: Jeffrey Pair
Discipline: Education

Megan Barry

Title: G-mode Oscillations in Neutron Stars
Faculty Sponsor: Prashanth Jaikumar
Discipline: Physical and Mathematical Sciences

Chloe Bell Wilson

Title: The Life and Times of a Landmark: The “Big Mound” in Print in St. Louis, Missouri During the Nineteenth Century
Faculty Sponsor: Patricia Cleary
Discipline: Humanities and Letters

Parker Bremer

Title: Assessing Protein-Ligand Binding Modes via Ensemble Molecular Dynamics
Faculty Sponsor: Eric Sorin
Discipline: Physical and Mathematical Sciences
Yohanna Brown

Contributor: Chyann J. Richard

Title: The Role of Glucagon Like Peptide 1 Receptors on the Rewarding Effects of Oxycodone in Male and Female Adolescent Rats

Faculty Sponsor: Arturo Zavala

Discipline: Behavioral and Social Sciences

Abbey Brown

Title: Effectiveness of 14-week Undulating Exercise Program on Lipid Profile in Postmenopausal Females

Faculty Sponsor: Jan Schroeder

Discipline: Health, Nutrition, and Clinical Sciences

Alanna Carnahan

Title: The Native Feminist Gesture: A Case Study in Contemporary Praxis

Faculty Sponsor: Nizan Shaked

Discipline: Humanities and Letters

Bridget Cervelli

Title: Do Peer Groups in Higher Education Aid Formerly Incarcerated Women with Identity Repair?

Faculty Sponsor: Kerry Woodward

Discipline: Behavioral and Social Sciences

Alyssa Clevenstine

Title: Residency of the Protected Giant Sea Bass (Stereolepis Gigas) to New and Historic Aggregation Sites at Santa Catalina Island, CA

Faculty Sponsor: Christopher Lowe

Discipline: Biological and Agricultural Sciences
Blake Dimas
Title: Adorno and the Potentials of Pop
Faculty Sponsor: Mary Caputi
Discipline: Humanities and Letters

Keelin Dunn
Title: The Effects of Gender Role Strain on Self-Compassion Among Men: A Qualitative Analysis
Faculty Sponsor: Varisa Patraporn
Discipline: Behavioral and Social Sciences

Julissa Duran
Contributor: Dereck Benavides
Title: The Impact of an HIV Testing Campaign Telenovela Miniseries on Shame and Stigma Among Latinos
Faculty Sponsor: Gino Galvez
Discipline: Behavioral and Social Sciences

Dustin Durke
Title: Biomechanics and Energetics of Curved Treadmills
Faculty Sponsor: Kellie Walters
Discipline: Health, Nutrition, and Clinical Sciences

Cameron Duval
Title: Corpus Analysis of Profanity on Reddit and its Subreddits
Faculty Sponsor: Nancy Hall
Discipline: Humanities and Letters
Daniela Franco
Contributor: Jennifer Zamudio
Title: Early-life Ketamine Administration Reverses the Aversive Properties of Ethanol in Adolescent Male, but Not Adolescent Female Rats
Faculty Sponsor: Arturo Zavala
Discipline: Behavioral and Social Sciences

Taina Gariglio Dias
Title: A Metric for Shark Dorsal Fins Based on Boundary Descriptor Matching
Faculty Sponsor: Ju Cheol Moon
Discipline: Engineering and Computer Science

Olga Gonzalez
Title: The Complexities of Music and Culture: Latin and American Love – Viking Metal Fanbase Beyond the Nordic World
Faculty Sponsor: Ray Briggs
Discipline: Humanities and Letters

Lauren Hamilton
Title: Deciphering the Past
Faculty Sponsor: Marie Kelleher
Discipline: Humanities and Letters

Will Hinckley
Title: Deciphering the Molecular Connection between Flowering Time and Age-Dependent Leaf Senescence in Arabidopsis Thaliana
Faculty Sponsor: Judy Brusslan
Discipline: Biological and Agricultural Sciences
Roxy Hurtado
Title: The Rhetoric of The Marvelous Mrs. Maisel
Faculty Sponsor: Jennifer Asenas
Discipline: Humanities and Letters

Bryen Irving
Contributor: Marc Salinas
Title: Identifying Hybrid Stars with Relativistic Tidal Deformations
Faculty Sponsor: Thomas Klaehn
Discipline: Physical and Mathematical Sciences

Arihant Jain
Title: Rendering Effective Fitness App for Older Adults
Faculty Sponsor: Bo Fu
Discipline: Engineering and Computer Science

Jared Jetter
Title: Nitrogen-Doped Graphene Catalyst Simulation with Density Functional Theory
Faculty Sponsor: Ted Yu
Discipline: Engineering and Computer Science

Selina Jimenez
Title: What Makes Women Stay: Exploring Relational Satisfaction and Infidelity
Faculty Sponsor: Ebony Utley
Discipline: Behavioral and Social Sciences
Christiana Koch

Title: How the Social Model of Autism Expands Autistic Students' College Major Choices
Faculty Sponsor: Varisa Patraporn
Discipline: Behavioral and Social Sciences

Cammie Lam

Contributors: Wilma Figueroa, Kyle Yomogida
Title: Prescription Stimulant Diversion on a College Campus:
Interpersonal and Environmental Correlates
Faculty Sponsor: Niloofar Bavarian
Discipline: Health, Nutrition, and Clinical Sciences

Christopher Laplante

Title: Do Idealizations have Epistemic Value?
Faculty Sponsor: Cory Wright
Discipline: Interdisciplinary

Allison Leas

Title: From Passive Racism to White Supremacy: The Range of Sympathetic Twitter Responses to Charlottesville's Unite the Right Rally
Faculty Sponsor: Kerry Woodward
Discipline: Behavioral and Social Sciences

Dylan Logas

Title: Paving East Los Angeles: Building the Freeway System in East Los Angeles, 1940-1970
Faculty Sponsor: Margaret Kuo
Discipline: Humanities and Letters
Alexis Lopez

Title: Leveling Out the Playing Field: A Conceptualization of Remittance Behavior for Nepali Women Migrant Workers
Faculty Sponsor: Barbara Grossman-Thompson
Discipline: Behavioral and Social Sciences

Phillippe Ly

Contributors: Train Tran, Codi Pace

Title: Rapid Enantiomer Ratio Determination of P-Chiral Compounds with Eu(hfc)3
Faculty Sponsor: Kensaku Nakayama
Discipline: Physical and Mathematical Sciences

Bethany Lycan

Title: Vowel Length in Pahka'anil
Faculty Sponsor: Michael Ahland
Discipline: Behavioral and Social Sciences

Megan Maguire

Title: Evidence-Based Psychotherapeutic Treatment for Victims of Intimate Partner Violence: An Investigation of the Relationship between Patient Presenting Characteristics and Treatment
Faculty Sponsor: Bita Ghafoori
Discipline: Behavioral and Social Sciences

Abhishek Manjulagodu Basavanna

Title: Effect of High Electric Fields on the Thermal-Fluid Behavior of Impacting Drops
Faculty Sponsor: Navdeep Dhillon
Discipline: Engineering and Computer Science
Alexandra Mazza  
**Contributor: Victoria Cimo**  
**Title:** Brain Stimulation and Focus Attention Effects on Motor Control: Do We Get an Additive Effect on Kinetics and Performance  
**Faculty Sponsor:** Kevin Valenzuela  
**Discipline:** Health, Nutrition, and Clinical Sciences

Mo Mohan Kumar  
**Title:** Decoding NIMBY Discourse: Permanent Supportive Housing in Orange County  
**Faculty Sponsor:** Kerry Woodward  
**Discipline:** Behavioral and Social Sciences

Jennifer Montepeque Diaz  
**Title:** Cebolla Que Hace Llorar, da Sabor a la Comida: Promoting College Enrollment for Latinas with Disabilities  
**Faculty Sponsor:** Kristin Powers  
**Discipline:** Education

Nhi Nguyen  
**Title:** Not an American Dream: First-Generation Vietnamese Females' Success in Higher Education  
**Faculty Sponsor:** Nina Flores  
**Discipline:** Education

Anh Nguyen  
**Title:** Structurally Induced Magnetic Phase Transition  
**Faculty Sponsor:** Thomas Gredig  
**Discipline:** Physical and Mathematical Sciences
Odalis Perez Anleu
Title: Gender Specific Latinx Labor Niches: Male Truck Drivers
Faculty Sponsor: Claudia Lopez
Discipline: Behavioral and Social Sciences

Leon Phung
Contributors: Jun Cao, Andrew Thomson, Rodrigo Garcia, Bryan Melara, Marcos Rodriguez
Title: Study of Competing Fracture Mechanisms in Metal Matrix Composites
Faculty Sponsor: Yan Li
Discipline: Engineering and Computer Science

Jonelle Prideaux
Contributor: Sabina Rodriguez
Title: Moral Alignment and the Representation of Minorities in the Comic Arts
Faculty Sponsor: Christopher Warren
Discipline: Behavioral and Social Sciences

Jessica Pugel
Title: Novel Intersectional Methodology for Social Psychological Research: A Framework and Demonstration
Faculty Sponsor: Bradley Pan-Weisz
Discipline: Behavioral and Social Sciences

Samantha Quiroz
Title: C1q Increases 25-hydroxycholesterol in Macrophages During Atherosclerosis
Faculty Sponsor: Deborah Fraser
Discipline: Biological and Agricultural Sciences
Eunice Reed
Title: Patient Engagement and Empowerment: Have Electronic Records Moved the Needle for the Chronically Ill Patients?
Faculty Sponsor: Sandhya Shimoga
Discipline: Health, Nutrition, and Clinical Sciences

Adriana Rincon
Title: A Morphology and Magnetism Study of Permalloy Nano-cap Magnetic Film
Faculty Sponsor: Chuhee Kwon
Discipline: Physical and Mathematical Sciences

Irabel Romero
Contributor: Matthew Winger
Title: Spatiotemporal Establishment of Growing Bacterial
Faculty Sponsor: Paul Sun
Discipline: Interdisciplinary

Juan Rosas
Title: Latinx Identities: Race, Space, and Language
Faculty Sponsor: Malcolm Finney
Discipline: Behavioral and Social Sciences

Diana Sanchez
Title: Gender Inequality in California Business Positions
Faculty Sponsor: Elaine Frey
Discipline: Business, Economics, and Public Administration
Juan Sigala
Title: Reducing Regrets Through a Goal Setting Intervention in Crew Athletics
Faculty Sponsor: Leilani Madrigal
Discipline: Behavioral and Social Sciences

Olivia Silke
Title: The Effects of Maternal Mindful Disposition on Maternal and Infant Stress Levels During Pregnancy and Postpartum
Faculty Sponsor: Guido Urizar
Discipline: Behavioral and Social Sciences

Cham Roeun Sok
Contributors: Reamreaksmey Chum, Lin Da Sov
Title: Study Abroad Agencies: The Case for Return on Investment
Faculty Sponsor: Laura Gonzalez
Discipline: Business, Economics, and Public Administration

Bo Sortman
Contributors: Daniela Franco, Eric Nunez, Cynthia Moreno-Barriga
Title: Early Adolescent Rats Exhibit Adult-Typical Sensitization
Faculty Sponsor: Arturo Zavala
Discipline: Behavioral and Social Sciences

Subramaniam Seshadri
Title: Predicting Mental State of Social Media Users
Faculty Sponsor: Roman Tankelevich
Discipline: Engineering and Computer Science
Subramaniam Seshadri

Title: Predicting Mental State of Social Media Users
Faculty Sponsor: Roman Tankelevich
 Discipline: Engineering and Computer Science

Brenda Villafana

Contributors: Brenda Villafana, Alexandra Gutierrez, Scott Lee

Title: Effects of Dual Task and Impaired Vision with Perturbations in Young Adults: A Pilot Study
Faculty Sponsor: Vennila Krishnan
Discipline: Interdisciplinary

Anna-Diana von Haumeder

Title: Resilience Among Syrian Refugees
Faculty Sponsor: Bita Ghafoori
Discipline: Behavioral and Social Sciences

Darielle Watkins

Title: Baywatch or First Responders? Diving into Trauma and Gender Inequality Experienced by Ocean Lifeguards
Faculty Sponsor: Leilani Madrigal
Discipline: Behavioral and Social Sciences

Kristen Way

Title: Source Protection Areas: Possible Causes for Establishment
Faculty Sponsor: Elaine Frey
Discipline: Business, Economics, and Public Administration
Kandis Williams
Title: The Lived Experiences of Latinx Communities in South Central Los Angeles in the Age Of Trump
Faculty Sponsor: Claudia Lopez
Discipline: Behavioral and Social Sciences

Matthew Winger
Contributor: Irabiel Romero
Title: Spatiotemporal Establishment of Growing Bacterial Colonies
Faculty Sponsor: Paul Sun
Discipline: Interdisciplinary
Special thanks to our committee, partners, moderators and jurors!

Committee

Atun Cawker, Jody Cormack, Mae DeBruin, Juliette Hidalgo, Kerry Johnson, Simon Kim, Rachel Lauf, Angela Locks, Melissa Mahoney, Meliana Prado, Michelle Ramirez, Bryan Rodriguez, Jamina Russell, Jenny Solorzano, Sergio Temores, JaQuea Willis

Partners

Academic Affairs, Graduate Student Resources Center, Office of the Provost, Office of Research and Sponsored Programs, Office of Undergraduate Research Services, Undergraduate Research Opportunity Program, VP of Graduate Studies

Moderators

Jonah Deocariza, Madiha Farrukh, Kylie Foster, Rachel Haering, Kim Hong Keu, Aaron Leal, Ramon Perez, Dylan Sakamoto, Jao San Agustin, Jen Schwartz, Rachel Veale

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.