CALIFORNIA STATE UNIVERSITY, LONG BEACH

36th ANNUAL STUDENT RESEARCH COMPETITION

Showcasing excellence in scholarly research, and highlighting creative activity

Friday, March 8, 2024 | 9 am - 1:35 pm
Held In-Person
Room Overview

Please go to your designated room in the College of Business (COB). Rooms are separated by discipline. Please refer to the CSULB Map at the end of the program.

COB 110: Engineering & Computer Science
COB 111: Behavioral & Social Sciences
COB 112: Behavioral & Social Sciences
COB 113: Health, Nutrition, and Clinical Sciences
COB 114: Physical & Mathematical Sciences
COB 122: Education
COB 123: Humanities & Letters
COB 124: Biological & Agricultural Sciences
COB 218: Creative Arts & Design

LIB 201: Awards Ceremony (3:30pm-4:30pm)
Room: COB-110
Engineering and Computer Science

Friday, March 8, 2024

9:15AM-9:35AM
Thomas Nguyen, Computer Science
Faculty Sponsor: Hossein Sayadi
Title: Exploring the Role of Generative AI in Computer Science and Engineering Education: Challenges and Opportunities

9:35AM-9:55AM
Zhangying He, Applied Mathematics
Faculty Sponsor: Hossein Sayadi
Title: When AI Meets Hardware Cybersecurity: Securing Biomedical Devices via Machine Learning Defense

9:55AM-10:15AM
Anurang Balakrishnan, Computer Science
Co-Presenter: Satyam Pathak
Faculty Sponsor: Tairan Liu
Title: Addressing Urban Traffic Congestion: A Hybrid DQN-Autoencoder Model with HyperOPT Tuning

10:15AM-10:35AM
Jack Brubaker, Chemical Engineering
Faculty Sponsor: Sara Moghtadernejad
Title: An Introduction to Powder Rheology in Pharmaceuticals

10:35AM-10:55AM
Satyam Sharman, Computer Science
Faculty Sponsor: Muhammad Bashit

10:55AM-11:15AM
BREAK
Room: COB-110
Engineering and Computer Science

Friday, March 8, 2024

Haley Obenshain, Biomedical Engineering
Co-Presenter: Bryant Lopez
Faculty Sponsor: Siavash Ahrar
Title: Hydrodynamic investigations of sand dollar larva

Jalen Leyretana, Biomedical Engineering
Co-Presenter: Alex Alonzo
Faculty Sponsor: Ga-Young Suh
Title: Computational Workflow to Design Patient-Specific Inferior Vena Cava (IVC) Filter

Charanya Rao, Electrical Engineering
Faculty Sponsor: Ava Hedayatipour
Title: Inductorless CMOS Security Architecture for Implantable and Wearable Devices

Lithika Bangalre Rajesh, Electrical Engineering
Faculty Sponsor: Ava Hedayatipour
Title: Development of Power-Efficient SAR ADC for Enduring Biomedical Appliances

Jonathan Dabu, Computer Engineering – Computer Science
Faculty Sponsor: Muhammad Abdul Basit Ur Rahim
Title: Enhancing Model Integrity and Fairness: Leveraging Knowledge Graphs in Preprocessing
<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 9:15AM-9:35AM | **Jacob Nguyen**, *Psychology*  
Faculty Sponsor: Guido Urizar  
Title: Prenatal Depression and Relational Satisfaction on Maternal-Fetal Attachment |
| 9:35AM-9:55AM | **Brooke Diaz**, *Child Development and Family Studies*  
Faculty Sponsor: Sandra Arevalo  
Title: Associations between Threatening and Non-Threatening Adverse Childhood Experiences and Psychological Wellbeing: A Gender-Based Analysis |
| 9:55AM-10:15AM| **Brian Gonzalez**, *Sport, Exercise, and Performance Psychology*  
Faculty Sponsor: Alison Ede  
Title: An examination of self-compassion, goal orientation, and competitive anxiety among collegiate soccer athletes |
| 10:15AM-10:35AM| **Darren Leung**, *Biology*  
Faculty Sponsor: Houng-Wei Tsai  
Title: Deciphering the Role of Androgen Receptor in the Masculinization of Social Behavior in Mice |
| 10:35AM-10:55AM| **Alina Tran**, *Psychology*  
Faculty Sponsor: David Illingworth  
Title: Medical Diagnosis Game - Risk |
| 10:55AM-11:15AM| **Ellen Tatevosyan**, *Psychological Research*  
Faculty Sponsor: Guido Urizar  
Title: Factors of Postpartum Depression |
| 11:15AM-11:35AM| BREAK |
Room: COB-111
Behavioral and Social Sciences

Friday, March 8, 2024

11:35AM-11:55AM  Melina De La Rosa, Economic and International Studies  
Faculty Sponsor: Graham Odell  
Title: The Democratic Stability of Post-Developmental States

11:55AM-12:15PM  Hannah Sjogren, Social Work  
Faculty Sponsor: Jo Brocato  
Title: Coping and Resilience Among First-Year University Students at California State University Long Beach

12:15PM-12:35PM  Maya Shankar, Psychological Research  
Faculty Sponsor: Bill Pedersen  
Title: Low in control, high in anger: The impact of personal control, anger, and group membership on aggressive inclinations

12:35PM-12:55PM  Francisco Hernandez, Psychological Research  
Faculty Sponsor: Bill Pedersen  
Title: Towards a brighter future: Temporal priming moderates the effect of trait psychopathy on ostracism and aggression

12:55PM-1:15PM  Sarah Arya, Political Science  
Faculty Sponsor: Ezgi Yidiz  
Title: Issues Matter: Selective Restrains at the European Court of Human Rights

1:15PM-1:35PM  Raha Esmaeilpour, Social Work  
Faculty Sponsor: Jo Brocato  
Title: Women’s Perceptions of How Sexual Trauma Impacts Intimate Bonds in Recovery
<table>
<thead>
<tr>
<th>Time</th>
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<th>Field</th>
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<tbody>
<tr>
<td>9:35AM-9:55AM</td>
<td><strong>Ambar Hernandez</strong>, Psychological Research</td>
<td>Faculty Sponsor: Araceli Gonzalez</td>
<td>Title: Major Barriers to Seeking Mental Health Services in College Students</td>
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<tr>
<td>9:55AM-10:15AM</td>
<td><strong>Sofia Uribe</strong>, Psychology</td>
<td>Faculty Sponsor: Bill Pedersen</td>
<td>Title: Driving under the influence of alcohol priming: Alcohol priming moderates the effect of aggressive driving</td>
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<tr>
<td>10:15AM-10:35AM</td>
<td><strong>Liz Grimes</strong>, Public Health</td>
<td>Faculty Sponsor: Niloofar Bavarian</td>
<td>Title: Examining Firearm Buyback Program Participation Within the Context of Health Belief</td>
</tr>
<tr>
<td>10:35AM-10:55AM</td>
<td><strong>Emily Doffing</strong>, Psychological Research</td>
<td>Co-Presenter: Kevin T. Tran</td>
<td>Faculty Sponsor: Danielle Kohfeldt Title: #EndoWarriors: Chronically Pained Webcomic Fans with Endometriosis Collectively Coping and Resisting</td>
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<td>10:55AM-11:15AM</td>
<td><strong>Haylie Prochnow</strong>, Criminology and Criminal Justice</td>
<td>Faculty Sponsor: Ernest Chavez</td>
<td>Title: Reforming or Rebranding? The California Model of Incarceration</td>
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<td>11:15AM-11:35AM</td>
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Room: COB-110  
Behavioral and Social Sciences  

Friday, March 8, 2024

Angel Marin-Flores, *Anthropology*
Faculty Sponsor: Hector Neff
Title: Arqueologia del Campo Volcanico Nejapa, 2023-2024

Elizabeth Esquivel, *Social Work*
Faculty Sponsor: Molly Ranney
Title: Bereavement Needs of Incarcerated Adults

Rita Butrus, *Psychology/Philosophy*
Faculty Sponsor: May Ling Halim
Title: Socialization Messages About the Comparative Value of Men and Women among Middle Eastern Families

Maerie Grayce Morales, *Social Work*
Faculty Sponsor: Jason Plummer
Title: Defund, Abolish, or Reform: MSW Perceptions of Policy Reform

David Pastor, Jr., *Social Work*
Faculty Sponsor: Ronald Loewe
Title: Esta Es Mi Tierra, Así Es Mi Perú: Documenting Gastronationalism Through Food Communities in Los Angeles, California

Danielle Phan, *Psychology*
Faculty Sponsor: Kimberly Kelly
Title: The Role of Parent-child Conversations in Child Emotion Learning During Informal Science
Room: COB-113
Health, Nutrition, and Clinical Sciences

Friday, March 8, 2024

9:15AM-9:35AM

Ruby Barragan, *Psychology*
Faculty Sponsor: Guido Urizar
Title: Investigating the effects of perinatal depression on postpartum depression by sex hormones

9:35AM-9:55AM

Victoria Min, *Health Science: Community Health Education*
Faculty Sponsor: Virginia Gray
Title: Motivators of Caffeine Use in College Students

9:55AM-10:15AM

Audrey Stallings, *Women’s, Gender, and Sexuality Studies*
Faculty Sponsor: Sarah Taylor
Title: Reproductive Coercion: Prevalence and Risk Factors Related to Relationship Health
Room: COB-114
Physical and Mathematical Sciences

Friday, March 8, 2024

9:15AM-9:35AM
Anais Johnson, Biochemistry
Faculty Sponsor: Young-Seok Shon
Title: Synthesis of Hydroxy-terminated Alkanethiolate-capped Pd nanoclusters for green catalysts in environmentally benign organic solvents

9:35AM-9:55AM
Chi Vo, Computer Science
Faculty Sponsor: Laurie Hunning
Title: Toward Drought Propagation: Characterizing Meteorological Drought in North America

9:55AM-10:15AM
Hector Gaxiola Williams, Mathematics
Faculty: Sponsor: Kathryn McCormick
Title: Maps Between Operator Algebras
<table>
<thead>
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<td>9:15AM-9:35AM</td>
<td><strong>Alyssa Reamer, Liberal Studies</strong></td>
<td>Ungrading: Students Perceptions as Learners and Educators</td>
<td>Antonio Martinez</td>
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<tr>
<td>9:35AM-9:55AM</td>
<td><strong>Leela Salary, Education</strong></td>
<td>High Impact Practices: Inequities in Experiences for College Students of Color at a Minority-Serving Institution</td>
<td>Kimberly Kelly</td>
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<tr>
<td>9:55AM-10:15AM</td>
<td><strong>Claudine Maloles, Early Childhood Education</strong></td>
<td>High Impact Practices: Barriers to Participation for College Students of Color at a Minority-Serving Institution</td>
<td>Kimberly Kelly</td>
</tr>
<tr>
<td>10:15AM-10:35AM</td>
<td><strong>Jaclyn Caballero, Education Leadership</strong></td>
<td>Post-pandemic edtech preparedness: A comparative analysis of public school districts’ education technology plans</td>
<td>Devery Rodgers</td>
</tr>
<tr>
<td>10:35AM-10:55AM</td>
<td><strong>Manami Koizumi, Counseling, Student Development in Higher Education</strong></td>
<td>Intergroup Dialogue, Self-Authorship, Diversity-Seeking, and Anti-Asian Prejudice Beliefs among College Students</td>
<td>Paul Ratanasiripong</td>
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<td>10:55AM-11:15AM</td>
<td><strong>David Ifediba, Education</strong></td>
<td>Examining African American Student’s Educational Outcomes through an Economic and Environmental Outlook</td>
<td>Kerri Knight-Teague</td>
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<tr>
<td>11:15AM-11:35AM</td>
<td><strong>Florencia Galcan Godinez, Counseling, Student Development in Higher Education</strong></td>
<td>Mentoring First-Generation Transfer Students for College Students</td>
<td>Paul Ratanasiripong</td>
</tr>
</tbody>
</table>
Room: COB-123

Friday, March 8, 2024

Humanities and Letters

9:15AM-9:35AM  Emma Teano, History
Faculty Sponsor: Guotong Li
Title: Crusader Medicine

9:35AM-9:55AM  Cody Spjut, Philosophy
Faculty Sponsor: Max Rosenkrantz
Title: Unraveling Self-Predication in Plato’s Dialogues

9:55AM-10:15AM  Jason Rosencrantz, Philosophy
Faculty Sponsor: Cory Wright
Title: Escaping Effability

10:15AM-10:35AM  Frank Mendoza,
Faculty Sponsor: Cory Wright
Title: The Case for Teletransportation Abstinence: Just Say No!

10:35AM-10:55AM  Raya Torres, Journalism
Faculty Sponsor: Jesus Ayala
Title: Reporting from Uvalde: A Survey of Long-term Stress Responses to Covering a Mass Shooting

10:55AM-11:15AM  BREAK
Room: COB-123
Humanities and Letters

Friday, March 8, 2024

11:15AM-11:35AM

Travis Barnett, Philosophy
Faculty Sponsor: Cory Wright
Title: Huntington’s Disease: A Sickness not unto Death

11:35AM-11:55PM

Trevor Keenan, International Studies
Faculty Sponsor: Caitlin Fouratt
Title: Drought and Disparities in Spain

11:55AM-12:15PM

Thomas Mendoza, History
Faculty Sponsor: Donna Binkiewicz
Title: Slavery Under Three Flags: The Evolution of Native American Slavery in California

12:15PM-12:35PM

El Nicklin, Philosophy
Faculty Sponsor: Marie Jayasekera
Title: Making Sense of Lockean Reflection

12:35PM-12:55PM

Jack Haslett, Journalism
Faculty Sponsor: Madeleine Liseblad
Title: The Enduring Legacy and Resilient Drive of Wendell Smith

12:55PM-1:15PM

Liz Hanna, Journalism
Faculty Sponsor: Madeleine Liseblad
Title: The Legacy of Helen Gurley Brown
Room: COB-124

Friday, March 8, 2024

Biological and Agricultural Sciences

9:15AM-9:35AM  
**Bryan Kang, Molecular Cell Biology and Physiology**  
Faculty Sponsor: Paul Weers  
**Title:** Determination of the Quaternary Structure of Human Apolipoprotein A-I at Physiologically Relevant Concentrations

9:35AM-9:55AM  
**BREAK**

9:55AM-10:15AM  
**Ariana Lee, Biological Sciences**  
Faculty Sponsor: Douglas Pace  
**Title:** Change for a dollar? Sand dollar larvae maintain food-induced plasticity throughout development

10:15AM-10:35AM  
**Kiana Tran, Molecular Cell Biology and Physiology**  
Faculty Sponsor: YuanYu Lee  
**Title:** Molecular Docking Analysis of Novel Interactions between Bisphenol A and Insulin Receptor

10:35AM-10:55PM  
**Vidya Metkar, Biochemistry**  
Faculty Sponsor: Vasanthy Narayanaswami  
**Title:** Development of Nanodiscs with Apolipoprotein E3 for Enzyme Replacement Therapy of acid sphingomyelinase for the Treatment of Niemann-Pick Disease
Room: COB-218  
Creative Arts & Design  

9:15AM-9:35AM  

Wynn Barnard, Studio Art: Illustration/Animation Track  
Faculty Sponsor: Soyeon Kim  
Title: Across the DMZ visual development

9:35AM-9:55PM  

Elizabeth Doll, Marketing  
Faculty Sponsor: Jennifer Richardson  
Title: How Theatre Teaches Men Emotional Vulnerability
Special Thanks

Committee
Natasha Amanda, Elyzza Aparicio, Miranda Bates, Jody Cormack, Mae DeBruin, Emily Doffing, Penelope Gaibor, Andee Gonzalez, Carlos Guijarro, Alan Hoang, Simon Kim, Mehily Mandal, Pauline Menchavez, Jackie Morales, Zahra Muthalip, Tanya Nguyen, Ammisha Opoku-Boamah, Ellyssa Paik, Michelle Phan, Dina Perrone

Partners
Academic Affairs, Graduate Center, Office of the Provost, Office of Research and Economic Development (ORED), Office of Undergraduate Research Services (OURS), Undergraduate Research Opportunity Program (UROP)

Moderators
Natasha Amanda, Carlos Carmona, Pauline Menchavez, Jackie Morales, Ammisha Opoku-Boamah, Ellyssa Paik, Cecilia Paredes, Smit Patel, Louis Santos, Noppo Sirikul

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