California State University
Long Beach
Presents
32nd Annual
Student Research Competition
Abbas Abdulhasan
Contributor: Muhammad Imam Uddin Abeer
Title: Structural and Functional Analysis of Apolipoprotein E3 and E4 Modification by a Lipid Peroxidation Product, 4-Hydroxynonenal
Discipline: Biological and Agricultural Sciences
Time: 10:00 AM - 10:20 AM
Location: College of Business (COB) 114
Faculty Sponsor: Vasanthy Narayanaswami

Joshua Acosta
Title: Objectifying Power: Encountering Culture and Perceptions of Material Exchange in Tahiti, 1766-1796
Discipline: Humanities and Letters
Time: 12:20 PM - 12:40 PM
Location: College of Business (COB) 110
Faculty Sponsor: Guotong Li

Avery Amerson
Title: Extended Cognition and the Evolution of Language
Discipline: Humanities and Letters
Time: 12:40 PM - 1:00 PM
Location: College of Business (COB) 110
Faculty Sponsor: Nellie Wieland

Elizabeth Avila
Contributor: Fany Alvarado Hernandez
Title: A Biomechanical Assessment of the Conventional Deadlift With and Without Shoes
Discipline: Health, Nutrition, and Clinical Sciences
Time: 11:40 AM - 12:00 PM
Location: College of Business (COB) 104
Faculty Sponsor: Kevin Valenzuela
Nicholas Bacich
Title: From the Adriatic to the Pacific: Croatian Migration to California from 1945 Through the 1960s
Discipline: Humanities and Letters
Time: 9:20 AM - 9:40 AM
Location: College of Business (COB) 110
Faculty Sponsor: Donna Binkiewicz

Vanessa Bloom
Title: The Language of Genocide: Pre-World War II Anti-Semitic German Propaganda
Discipline: Humanities and Letters
Time: 10:20 AM - 10:40 AM
Location: College of Business (COB) 110
Faculty Sponsor: Margaret Kuo

Olivia Brush
Title: Chivalry isn’t Dead, but it Should Be: The Validation of the Benevolent Sexism in the Workplace Scale
Discipline: Behavioral and Social Sciences
Time: 9:20 AM - 9:40 AM
Location: College of Business (COB) 104
Faculty Sponsor: Amy Wax

John Burdick
Title: Ionic Residues in Helix 10 of the C-terminal Domain of Human Apolipoprotein A-I Regulate Self-association
Discipline: Biological and Agricultural Sciences
Time: 12:00 PM - 12:20 PM
Location: College of Business (COB) 114
Faculty Sponsor: Paul Weers
Beda Castillo
Title: The Under and Over Management of Nepali Domestic Workers
Discipline: Behavioral and Social Sciences
Time: 11:20 AM - 11:40 AM
Location: College of Business (COB) 100
Faculty Sponsor: Barbara Grossman-Thompson

Lizbeth Castillo Monterrosa
Title: To give up or not to give up: Migrants waiting for asylum at the U.S.-Mexico border
Discipline: Behavioral and Social Sciences
Time: 10:40 AM - 11:00 AM
Location: College of Business (COB) 100
Faculty Sponsor: Caitlin Fouratt

Laetitia Chance
Title: The Nameless Arab in L'étranger: A Postcolonial Discourse
Discipline: Humanities and Letters
Time: 10:40 AM - 11:00 AM
Location: College of Business (COB) 110
Faculty Sponsor: Aparna Nayak

Jack Clark
Title: "Doing God's Work": Drug Checking at U.S. Music Festivals
Discipline: Behavioral and Social Sciences
Time: 1:00 PM - 1:20 PM
Location: College of Business (COB) 100
Faculty Sponsor: Dina Perrone
Nicholas Da Silva  
Title: Impact of Submerged Aquatic Vegetation (Zostera marina and Ruppia maritima) on Habitat Parameters and Macroinvertebrate Community Composition within an Urbanized Coastal Lagoon  
Discipline: Biological and Agricultural Sciences  
Time: 12:20 PM - 12:40 PM  
Location: College of Business (COB) 114  
Faculty Sponsor: Christine Whicraft

Loren Dela Rosa  
Title: Designing a Robust Gasoline Blending Recipe Via Scenario-based Optimization  
Discipline: Engineering and Computer Science  
Time: 9:00 AM - 9:20 AM  
Location: College of Business (COB) 101  
Faculty Sponsor: Yu Yang

Jason Devera  
Title: Moderation Effects of Low Socioeconomic Status on the Association between Exercise Rates and the Cortisol Awakening Response during Pregnancy  
Discipline: Behavioral and Social Sciences  
Time: 12:40 PM - 1:00 PM  
Location: College of Business (COB) 101  
Faculty Sponsor: Guido Urizar

Christianna Finn  
Title: A Modern Milieu: Using the Music Festival Atmosphere to Help Veterans Transition into Civilian Life  
Discipline: Health, Nutrition, and Clinical Sciences  
Time: 1:00 PM - 1:20 PM  
Location: College of Business (COB) 104  
Faculty Sponsor: Cafat Qahuoush
Sydney Flonnoy
Title: Homophobia: Effects and Behavioral Responses
Discipline: Behavioral and Social Sciences
Time: 1:20 PM - 1:40 PM
Location: College of Business (COB) 100
Faculty Sponsor: Dina Perrone

Marina Ganicheva
Title: Dealers of the Second-Hand Clothes (Fripiers) of Paris: Making Social and Cultural Capital in the Time of Ancien Regime, 1750-1789
Discipline: Humanities and Letters
Time: 10:00 AM - 10:20 AM
Location: College of Business (COB) 110
Faculty Sponsor: Richard Flamein

Bree Godoy
Title: Prescription Stimulant Misuse: A Qualitative Approach to Etiology and Deterrents
Discipline: Health, Nutrition, and Clinical Sciences
Time: 12:40 PM - 1:00 PM
Location: College of Business (COB) 104
Faculty Sponsor: Niloofar Bavarian

Rebeca Griego
Title: Space Debris: The Importance of Collaboration
Discipline: Physical and Mathematical Sciences
Time: 12:40 PM - 1:00 PM
Location: College of Business (COB) 112
Faculty Sponsor: Johnson Amber
Hannah Gross
Title: Chemopreventative Potential of Plant-Based Extracts (Coffea and Colubrina Arborescens) using the Global Antioxidant Response (GAR) Method via in vitro Simulated Gastric Digestion
Discipline: Health, Nutrition, and Clinical Sciences
Time: 11:20 AM - 11:40 AM
Location: College of Business (COB) 104
Faculty Sponsor: Cheryl Rock

David Gudal
Title: Speak The Journey
Discipline: Creative Arts and Design
Time: 12:40 PM - 1:00 PM
Location: College of Business (COB) 114
Faculty Sponsor: Joshua Palkki

Elizabeth Gutierrez
Title: Telehealth-based health-coaching program produces significant weight loss over 12-months in a Usual Care Setting
Discipline: Health, Nutrition, and Clinical Sciences
Time: 12:20 PM - 12:40 PM
Location: College of Business (COB) 104
Faculty Sponsor: Michelle Alencar

Bethany Gutierrez
Title: Impact of Healthcare Technology On The Delivery Of Low-Value Care
Discipline: Health, Nutrition, and Clinical Sciences
Time: 1:40 PM - 2:00 PM
Location: College of Business (COB) 104
Faculty Sponsor: Sandhya Shimoga
Andrea Hammond
Title: Cortisol Patterns Predict Weight Retention Post-partum
Discipline: Behavioral and Social Sciences
Time: 1:00 PM - 1:20 PM
Location: College of Business (COB) 101
Faculty Sponsor: Guido Urizar

Amy Harms
Title: Descartes' Theory of Judgment and Faith-based beliefs
Discipline: Humanities and Letters
Time: 1:00 PM - 1:20 PM
Location: College of Business (COB) 110
Faculty Sponsor: Cory Wright

Tina Hayati
Title: Enhance Finer Motor Skills to Capture Women’s Ergonomics of Prosthetics
Discipline: Engineering and Computer Science
Time: 11:20 AM - 11:40 AM
Location: College of Business (COB) 101
Faculty Sponsor: Daniel Whisler

Shawn Hernandez
Title: Alien Nurse, The Causal Theory, and Moral Truth
Discipline: Humanities and Letters
Time: 1:20 PM - 1:40 PM
Location: College of Business (COB) 110
Faculty Sponsor: Cory Wright
Mitchel Hickman
Contributor: Ryan J. Luna
Title: Aliens and Memes: The Formations of a Modern Mythology
Discipline: Humanities and Letters
Time: 11:40 AM - 12:00 PM
Location: College of Business (COB) 110
Faculty Sponsor: Jon Stone

Christian Hipolito
Contributor: Vy Nguyen
Title: Low physical activity is linked to hemodynamic and cardiac autonomic function in Doctor of Physical Therapy students
Discipline: Health, Nutrition, and Clinical Sciences
Time: 12:00 PM - 12:20 PM
Location: College of Business (COB) 104
Faculty Sponsor: Jacqueline Dawson

Rebecca Howard
Title: The Effect of Socio-Cultural Betrayals on Post-Traumatic Outcomes in a Latina/o/x Sample
Discipline: Behavioral and Social Sciences
Time: 9:00 AM - 9:20 AM
Location: College of Business (COB) 100
Faculty Sponsor: Courtney Ahrens

Zachary Johnson
Title: Dynamics of Droplet Impact On Moving Substrate
Discipline: Engineering and Computer Science
Time: 9:40 AM - 10:00 AM
Location: College of Business (COB) 101
Faculty Sponsor: Sara Moghtadernejad
Emran Karzai
Title: Relativistic Quantum Mechanical Equations
Discipline: Physical and Mathematical Sciences
Time: 11:00 AM - 11:20 AM
Location: College of Business (COB) 112
Faculty Sponsor: Zoltan Papp

Isabelle Kelman
Title: Madame Bovary: Consequences of Lack of Women's Education
Discipline: Humanities and Letters
Time: 11:00 AM - 11:20 AM
Location: College of Business (COB) 110
Faculty Sponsor: Aparna Nayak

Randel King
Title: Enabling Engaging Experiences in the Bowers Museum China Exhibit
Discipline: Creative Arts and Design
Time: 1:00 PM - 1:20 PM
Location: College of Business (COB) 114
Faculty Sponsor: Kendall Brown

Cammie Lam
Title: The Association Between Loneliness and C-Reactive Protein Levels
Discipline: Behavioral and Social Sciences
Time: 10:00 AM - 10:20 AM
Location: College of Business (COB) 100
Faculty Sponsor: Jeffrey Davis
Michael Lara
Title: Perceptual Attitude Mindreading: Behavior prediction in non-linguistic animals
Discipline: Humanities and Letters
Time: 1:40 PM - 2:00 PM
Location: College of Business (COB) 110
Faculty Sponsor: Cory Wright

Ricky Lee
Title: Wirtinger Width
Discipline: Physical and Mathematical Sciences
Time: 11:40 AM - 12:00 PM
Location: College of Business (COB) 112
Faculty Sponsor: Ryan Blair

Maria Lopez
Contributor: Isaac Cuate
Title: Pro-Social Community Investments Online: The case for Hispanic Peer-to-Peer Lending
Discipline: Business, Economics, and Public Administration
Time: 10:20 AM - 10:40 AM
Location: College of Business (COB) 104
Faculty Sponsor: Laura Gonzalez Alana

Caitlin Mace
Title: Better for Whom?: What we owe other creatures when they pose a threat to our health and safety
Discipline: Humanities and Letters
Time: 10:20 AM - 10:40 AM
Location: College of Business (COB) 112
Faculty Sponsor: Cory Wright
Ricardo Manzano
Title: A Parametric Study on the Stability of Fiber Reinforced Rubber Bearings Under Combined Axial and Shear Loads
Discipline: Engineering and Computer Science
Time: 10:00 AM - 10:20 AM
Location: College of Business (COB) 101
Faculty Sponsor: Andrea Calabrese

Carlos Mayerstein
Title: Representations of Evil in Contemporary Latin American Theater
Discipline: Humanities and Letters
Time: 9:40 AM - 10:00 AM
Location: College of Business (COB) 110
Faculty Sponsor: Alicia del Campo

Anthony Mendez
Title: Science Identity Scale Measurement in Students Persisting in the STEM field.
Discipline: Behavioral and Social Sciences
Time: 11:00 AM - 11:20 AM
Location: College of Business (COB) 100
Faculty Sponsor: Gino Galvez

Nelson Minaya
Contributor: Nhat Anh Le
Title: User Identification from gait data
Discipline: Engineering and Computer Science
Time: 10:40 AM - 11:00 AM
Location: College of Business (COB) 101
Faculty Sponsor: Ju Cheol Moon
Everardo Molina
Title: Gauging Electronic Transport in Ruthenium Chloride Thin Crystals Through Graphene Heterostructures
Discipline: Physical and Mathematical Sciences
Time: 12:00 PM - 12:20 PM
Location: College of Business (COB) 112
Faculty Sponsor: Claudia Ojeda-Aristizabal

Alisha Monsibais
Title: Complement protein C1q modulates Endothelial Cell Functions in Atherosclerosis
Discipline: Biological and Agricultural Sciences
Time: 10:40 AM - 11:00 AM
Location: College of Business (COB) 114
Faculty Sponsor: Deborah Fraser

Josh Murillo
Title: The Effects of Eating Habits on Levels of Stress in Pregnant Women: Role of Socioeconomic Factors
Discipline: Health, Nutrition, and Clinical Sciences
Time: 9:00 AM - 9:20 AM
Location: College of Business (COB) 110
Faculty Sponsor: Guido Urizar

Oscar Navarro
Title: All in the family: The role of parenthood on substance use among gang affiliates.
Discipline: Behavioral and Social Sciences
Time: 1:40 PM - 2:00 PM
Location: College of Business (COB) 100
Faculty Sponsor: Dina Perrone
Anastasia Nesbitt  
Title: Existential Risk: A Discourse of Democracy  
Discipline: Humanities and Letters  
Time: 12:00 PM - 12:20 PM  
Location: College of Business (COB) 110  
Faculty Sponsor: Kimberly Walters

Hannah Neuhauser  
Title: Lost Without a Cue: The Progression of Music and Masculinity in Detective Film Noir  
Discipline: Humanities and Letters  
Time: 10:40 AM - 11:00 AM  
Location: College of Business (COB) 112  
Faculty Sponsor: Roger Hickman

Tracy Nguyen  
Title: Factors Affecting Older Adults Decision in Being Active  
Discipline: Behavioral and Social Sciences  
Time: 10:20 AM - 10:40 AM  
Location: College of Business (COB) 100  
Faculty Sponsor: Erlyana Erlyana

Vivienne Nguyen  
Title: Destined For Greatness  
Discipline: Behavioral and Social Sciences  
Time: 1:20 PM - 1:40 PM  
Location: College of Business (COB) 101  
Faculty Sponsor: Guido Urizar
Trenton Nguyen
Title: MIL-88B Encapsulation and Attachment on Gold Surface
Discipline: Physical and Mathematical Sciences
Time: 1:00 PM - 1:20 PM
Location: College of Business (COB) 112
Faculty Sponsor: Fangyuan Tian

Marian Noei
Title: Predictors of Medical Interactions and Disclosure Among Victims of Intimate Partner Violence
Discipline: Behavioral and Social Sciences
Time: 9:20 AM - 9:40 AM
Location: College of Business (COB) 100
Faculty Sponsor: Courtney Ahrens

Faiyaz Omerjee
Title: Context-dependent methamphetamine sensitization using a one-trial behavioral sensitization paradigm
Discipline: Behavioral and Social Sciences
Time: 10:00 AM - 10:20 AM
Location: College of Business (COB) 104
Faculty Sponsor: Arturo Zavala

Abby Omolafe
Title: Democratic Sacrifice in the U.S: The Romanticization of the Civil Rights Movement Model
Discipline: Behavioral and Social Sciences
Time: 11:40 AM - 12:00 PM
Location: College of Business (COB) 100
Faculty Sponsor: Rich Haesly
**Alexander Ordonez**

Title: The Supports System for Change: A Conceptual Framework to Support Reassigned, Veteran Elementary School Teachers and Beyond  
Discipline: Education  
Time: 9:40 AM - 10:00 AM  
Location: College of Business (COB) 112  
Faculty Sponsor: Xin Li

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**Evelyn Ortiz**

Title: Queering the Gay Agenda: The Politics of Queer Legal Advocacy Organizations After United States v. Windsor (2013)  
Discipline: Behavioral and Social Sciences  
Time: 12:40 PM - 1:00 PM  
Location: College of Business (COB) 100  
Faculty Sponsor: Katheryn Perkins

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**Alisha Osornio**

Title: The Influence of Latinx and African American Mothers’ Trajectories of Psychological Distress on Children’s Physical Health and Cognitive Skills  
Discipline: Behavioral and Social Sciences  
Time: 12:00 PM - 12:20 PM  
Location: College of Business (COB) 100  
Faculty Sponsor: May Ling Halim

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**William Pasco**

Title: Post-Earthquake Functionality of Overpass Bridges in California  
Discipline: Engineering and Computer Science  
Time: 11:00 AM - 11:20 AM  
Location: College of Business (COB) 101  
Faculty Sponsor: Vesna Terzic
Jacqueline Piña
Title: The Modern Museum: Leaving a ‘Fantastic’ Existence for Home
Discipline: Humanities and Letters
Time: 11:20 AM - 11:40 AM
Location: College of Business (COB) 110
Faculty Sponsor: Catha Paquette

Irabel Romero
Title: Numerical Methods for Multiscale Modeling in Bacterial Colony Growth
Discipline: Physical and Mathematical Sciences
Time: 12:20 PM - 12:40 PM
Location: College of Business (COB) 112
Faculty Sponsor: Hui Sun

Nicholas Roy
Title: Port Drayage Disruptions
Discipline: Business, Economics, and Public Administration
Time: 10:40 AM - 11:00 AM
Location: College of Business (COB) 104
Faculty Sponsor: Thomas O'Brien

Jessica Sagun
Title: Crowdfunding Death
Discipline: Behavioral and Social Sciences
Time: 9:00 AM - 9:20 AM
Location: College of Business (COB) 104
Faculty Sponsor: Pamela Roberts
Evelyn Santana
Title: The Effects of Perceived Stress Reactivity on Cortisol Levels Amongst Low-Income Pregnant Women
Discipline: Behavioral and Social Sciences
Time: 1:40 PM - 2:00 PM
Location: College of Business (COB) 101
Faculty Sponsor: Guido Urizar

Jeremy Satterfield
Title: Improved Manufacturing Method for Hail Simulates in Impact Testing
Discipline: Engineering and Computer Science
Time: 11:40 AM - 12:00 PM
Location: College of Business (COB) 101
Faculty Sponsor: Daniel Whisler

Alexa Sauquillo
Title: Mother's Perceived Stress on Child's Prosocial Behaviors
Discipline: Behavioral and Social Sciences
Time: 12:00 PM - 12:20 PM
Location: College of Business (COB) 101
Faculty Sponsor: Guido Urizar

Diana Silva Garay
Title: Effects of temperature and body-mass on the standard metabolism of the round stingray, Urobatis halleri
Discipline: Biological and Agricultural Sciences
Time: 11:00 AM - 11:20 AM
Location: College of Business (COB) 114
Faculty Sponsor: Christopher Lowe
Elizabeth Smit
Title: Influence of Participation in Informal Integrated STEM Education on Multiple Subject Credential
Student Perceptions of STEM Education and Lesson Creation
Discipline: Education
Time: 10:00 AM - 10:20 AM
Location: College of Business (COB) 112
Faculty Sponsor: Cathrine Maiorca

Briana Stanley
Title: Natural Disasters: A Visual Dialogue
Discipline: Creative Arts and Design
Time: 1:20 PM - 1:40 PM
Location: College of Business (COB) 114
Faculty Sponsor: Fran Siegel

Thomas Stolpe
Title: Exploding droplets
Discipline: Engineering and Computer Science
Time: 10:20 AM - 10:40 AM
Location: College of Business (COB) 101
Faculty Sponsor: Sara Moghtadernejad

Jeremy Stumpp
Title: Public Infrastructure and Economic Growth: Evidence from U.S. States
Discipline: Business, Economics, and Public Administration
Time: 11:00 AM - 11:20 AM
Location: College of Business (COB) 104
Faculty Sponsor: Steve Yamarik
Akane Suzuki
Title: Teacher’s Decision Making of Oral Corrective Feedback in a JFL Context
Discipline: Education
Time: 9:20 AM - 9:40 AM
Location: College of Business (COB) 112
Faculty Sponsor: Rebekha Abbuhl

Kevin Travis
Title: Walking with fins: comparative biomechanics of submerged and emerged walking in the epaulette shark
Discipline: Biological and Agricultural Sciences
Time: 11:20 AM - 11:40 AM
Location: College of Business (COB) 114
Faculty Sponsor: Chris Lowe

Zachary Tuttle
Title: The Interaction between Exercise Frequency and Cognitive Impairment in Dual-Task Training
Discipline: Behavioral and Social Sciences
Time: 9:00 AM - 9:20 AM
Location: College of Business (COB) 114
Faculty Sponsor: Young-Hee Cho

Rachel Veale
Title: Perceptions of Women as "Delicate Flowers" and "Domestic Goddesses": Intersectional Experiences of Benevolent Sexism
Discipline: Behavioral and Social Sciences
Time: 9:40 AM - 10:00 AM
Location: College of Business (COB) 104
Faculty Sponsor: Amy Wax
Jaquelyn Villalba
Title: Interactions between the 18-wheeler gene and X-linked chromosome deficiencies in Drosophila melanogaster affecting salivary gland morphogenesis
Discipline: Biological and Agricultural Sciences
Time: 10:20 AM - 10:40 AM
Location: College of Business (COB) 114
Faculty Sponsor: Elizabeth Eldon

Dominique Vitanza
Title: Comparison of Muscle Activation Between the Conventional, Sumo and Stiff-Leg Deadlift
Discipline: Health, Nutrition, and Clinical Sciences
Time: 1:20 PM - 1:40 PM
Location: College of Business (COB) 104
Faculty Sponsor: Evan Schick

Kathy Vo
Title: Effects of Mammalian Aposematic Color Contrast and Pattern Variation on Predator Avoidance Behavior
Discipline: Biological and Agricultural Sciences
Time: 11:40 AM - 12:00 PM
Location: College of Business (COB) 114
Faculty Sponsor: Theodore Stankowich

Bryan Vu
Title: Mechanical Testing of Collagen Scaffolds for Tissue Engineering Applications
Discipline: Engineering and Computer Science
Time: 9:20 AM - 9:40 AM
Location: College of Business (COB) 101
Faculty Sponsor: Perla Ayala
Nicholas Werner
Title: Electron Collective Modes in Twisted Bilayer Graphene
Discipline: Physical and Mathematical Sciences
Time: 11:20 AM - 11:40 AM
Location: College of Business (COB) 112
Faculty Sponsor: Andreas Bill

Taryn Williams
Title: Statistical Analysis and Regression Model Building of Predictive Factors Leading to Increased Overdose Rates in America
Discipline: Behavioral and Social Sciences
Time: 12:20 PM - 12:40 PM
Location: College of Business (COB) 100
Faculty Sponsor: Rebecca Nash

Josie Xing
Title: Informal Mental Health Help Seeking Behaviors Among Asian American College Students
Discipline: Behavioral and Social Sciences
Time: 9:40 AM - 10:00 AM
Location: College of Business (COB) 100
Faculty Sponsor: Niloofar Bavarian
Special Thanks

Committee

Jody Cormack, Vanessa Diaz, Mae DeBruin, Juliette Hidalgo, Kerry Johnson, Simon Kim, Calvin Kol, Angela Locks, Melissa Mahoney, Ammisha Opoku-Boamah, Meliana Prado, Michelle Ramirez, Bryan Rodriguez, Jennifer Solorzano, Sergio Temores

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

Jose Brassea, Esra Eldem, Madelynn Perez, Heather Schmoll, Annika Segelhorst, Naomi Suzuki, Patricia Trinidad, Melissa Watanabe

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.