

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: Vasanthi 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) 125

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) 125

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) 123

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) 123

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) 123

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 Whitcraft

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) 124

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) 124

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) 125

Faculty Sponsor: Rafat Qahoush

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) 123

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) 125

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) 125

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) 125

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) 125

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) 124

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) 124

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) 125

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) 123

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) 124

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) 123

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) 125

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) 124

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) 123

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) 124

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) 123

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) 123

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) 124

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) 123

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) 125

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) 123

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

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) 123

Faculty Sponsor: Katheryn Perkins

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) 123

Faculty Sponsor: May Ling Halim

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) 124

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

Irabiel 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) 125

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) 125

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) 124

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) 124

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) 124

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) 124

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) 125

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) 125

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) 125

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) 124

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) 123

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) 123

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 Services Resource 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.