A STUDENT SHOWCASE

27th ANNUAL RESEARCH & CREATIVE WORKS SYMPOSIUM

CSUNPOSUIM

A STUDENT SHOWCASE

FRIDAY, APRIL 21, 2023
8:00 AM - 3:00 PM

Zoom and the University
Student Union
Dear Student Participants, Faculty and Staff:

Welcome to the 27th Annual CSUNposium at California State University, Northridge. We are pleased that you have found time to attend this significant academic event and experience the impressive variety of research conducted by our students.

The opportunity to participate in academic research and creative activities is an important component of the educational experience available to students at CSUN. The poster and oral presentations at today’s symposium demonstrate our student’s dedication to research and scholarship. Their research addresses fundamental questions in the arts, sciences, and technology.

The University’s distinguished faculty members are at the heart of the research you see today. They are responsible for supporting the rich variety of research and scholarly opportunities available to students at CSUN. As many of our alumni will tell you, working with their professors helped prepare them for success in advanced degree programs.

Please join us in thanking our students for their presentations and in celebrating their academic accomplishments.

Dr. Erika D. Beck  
President

Dr. Meera Komarraju  
Provost and VP for Academic Affairs

Dr. Amy Levin  
AVP Graduate Studies

Dr. Christopher Sanford  
AVP Research and Sponsored Programs
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Schedule of Events
Friday, April 21, 2023

8:30 AM 3-Minute Oral Presentations Via Zoom
Session 1 CECS-Undergraduate Students
Session 2 S&M- Undergraduate Students
Session 3 S&M and S&BS- Undergraduate

10-Minute Oral Presentations
Session 1 Theme: AMC, HHD, S&M & S&BS-Graduate Students
Session 2 S&M-Graduate Students
Session 3 S&M-Graduate Students
Session 4 S&M-Graduate Students
Session 5 Theme: HHD & S&BS-Graduate Students
Session 6 CECS & HHD-Graduate Students
Session 7 AMC, EDU, HUM-Graduate Students
Session 8 CECS, HHD & S&BS-Undergraduate Students
Session 9 S&M-Undergraduate Students
Session 10 AMC, CECS, HHD & S&BS-Undergraduate Students

9:30 AM 3-Minute Oral Presentations Via Zoom
Session 4 HHD, S&M, S&BS-Graduate Students
Session 5 AMC, EDU, HUM & S&BS-Graduate Students
Session 6 S&BS-Graduate Students

10:00 AM Morning Poster Presentations (Poster Groups 1-11) USU, Northridge Center

10:30 AM 3-Minute Oral Presentations Via Zoom
Session 7 CECS, HUM & S&M-Undergraduate Students
Session 8 AMC, EDU, CECS, HHD & S&M-Graduate Students
Session 9 HHD and S&BS-Graduate Students

12:00 PM Lunch USU, Northridge Center

12:30 PM 10-Minute Oral Presentations Via Zoom
Session 11 S&BS-Graduate Students
Session 12 S&BS-Graduate Students
Session 13 S&M-Undergraduate Students
Session 14 S&M-Undergraduate Students
Session 15 S&M-Graduate Students
Session 16 S&M-Graduate Students
Session 17 CECS & HHD-Graduate Students
Session 18 AMC, CECS, HUM & S&BS-Graduate Students
Session 19 S&BS-Graduate Students

1:00 PM Afternoon Poster Presentations (Poster Groups 12-19) USU, Northridge Center

Faculty Mentor List

By College

**Arts, Media, and Communication**
Gina Giotta
Diane Ketchie
Alexandra Monchick
Jared Rappaport
Andrew Surmani
Christian Tedeschi
Nate Thomas
Melissa Wall

**Education**
Deborah Buttitta
Brian Foley
Dimpal Jain
Carrie Rothstein-Fisch

**Engineering and Computer Science**
Cecile Bendavid
Peter Bishay
Jamie Booth
David Boyajian
Kyle Dewey
Li Liu
Shadi Mahjoob
Alex Modarresi
Christoph Schaal
Natalie Schaal
Tadeh Zirakian

**Health and Human Development**
Annette Besnilian
Kacie Blackman
Elizabeth Dabach
April Diederich
Sean Flanagan
Myriam Forster
Anna Frise
Rosalia Garcia
Shu-Sha Angie Guan
Dena Herman
Jacob Hinkel-Lipkser
Sarah Victoria Jaque
Danielle Jarvis
Sean Jefferson
Taeyou Jung
Aimie Kachingwe
Kristin King
Andy Lin
Witaya Mathiyakom
Rika Meyer
Yoko Mimura
Christopher Rogers
Margaret Roller
Louis Rubino
Teri Todd
Claudia Toledo-Coral
Jimmy Xie
Vickie Yu

**Humanities**
Leilani Hall
Jennifer Lee
Jackie Stallcup

**Science and Mathematics**
Ravinder Abrol
Carlos Eduardo Guerra Amorim
Chhandak Basu
Anna Bezryadina
Abdelaziz Boulesbaa
Ana Cadavid
Robert Carpenter
Allea Cauilan
Debi Prasad Choudhary
Damian Christian
Peter Edmunds
Maria Elena De Bellard
Michael Eller
Robert Espinoza
Eileen Evans
Paula Fischhaber
Gilberto Flores
Priya Ganguli
David Gray
Yoshie Hanzawa
Scott Hauswirth
Meng-Che Ho
Ray Hong
Jonathan Kelber
Eric Kelson
Kah Chun Lau
Mariano Loza-Coll
Tyler Luchko
Rachel Mackelprang
Cindy Malone
Jheem Medh
Gagik Melikyan
Thomas Minehan
Sean Murray
Miroslav Peric
Luca Ricci
Jeanne Robertson
Cristian Ruiz-Rueda
Joshua Schwartz
Donna Sheng
Yohannes Shiferaw
Nyssa Silbiger
Mark Steele
Melissa Takahashi
Joseph Teprovich
Casey terHorst
Cheryl Van Buskirk
Li Ye
Jeremy Yoder

Social and Behavioral Sciences
Andrew Ainsworth
Alyssa Arentoft
Sara Berzenski
David Boyns
Jodi Brown
Moshoula Capous-Desyllas
Michael Carter
Thomas Chan
Gabriela Chavira
Judith DeBonis
Stefanie Drew
Elise Fenn
Erik Goldner
Cedric Hackett
Keiko Hirata
Rachel Howes
Que-Lam Huynh
Edward Jackiewicz
Jeanna Jacobsen
Chunying Jin
Sun-Mee Kang
Justin Kantner
Ellie Kazemi
Debbie Ma
Jonathan Martinez
Sampriti Mukherjee
Daniel Olmos
Norma Ortiz-Robinson
Mark Otten
Hyun-Sun Park
Scott Plunkett
Jill Quilici
Jill Razani
Abraham Rutchick
Omar Ruvalcaba
Suzanne Scheld
Holli Tonyan
Anaïs L’Heureux Valiquette
Yolanda Vasquez-Salgado
Faculty Judges
By College

Arts, Media, & Communication
Daisy Lemus
Kristin Taylor
Hilary Yip

Business & Economics
Karen Blackwell
Amir Gharehgozli
Sean Keyani

Education
Deborah Buttita
Angelica Galvan
Greg Knotts

Engineering & Computer Science
Jamie Booth
Vidya Nandikolla
Rasoul Narimani
Melih Papila
Maya Pishvar
Tohid Sardarmehni
Natalie Schaal
Tadeh Zirakian

Research & Sponsored Programs
Michael Epping
Jennifer Bloom

Health and Human Development
Kacie Blackman
Chris Bolsmann
Cassidy Butow
Nelida Duran
Rosalia Garcia-Torres
Kandice Grote

Science & Mathematics
Marie Akopyan
Chhandak Basu
David Bermudes
Anna Bezyadina
Kah Chun Lau
Robert Espinoza
Paula Fischhaber
Ashwana Fricker
Priya Ganguli
Li Gao
Simon Garrett
Dave Gray
Richard Heermance
Fritz Hertel
Turbo Ho
James Hogue
Ray Hong
Tim Karels
Jonathan Kelber
Alison Koontz
Mariano Loza-Coll
Tyler Luchko
Rachel Mackelprang
Cindy Malone
Tae Oh
Lea Richardson
Jeanne Robertson
Cristian Ruiz Rueda
Felipe Silva Carvalho
Melissa Takahashi
Joseph Teprovich
Casey terHorst
Virginia Vandergon

University Library
Jamie Johnson
Brianna Limas
Christina Mayberry
8:30 AM
Sargis Ashikyan
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Shadi Mahjoob
Title of Presentation: Team Management and Systematic Design of a Radio-Controlled Aircraft with a Flying Wing Structural Shape

8:36 AM
Sahil Keniya
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Shadi Mahjoob
Title of Presentation: Carbon Fiber Rear Landing Gear FEA Analysis

8:42 AM
Dylan Lyon
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: Back to nature: Replacing traditional airplane wings with bio-inspired bird-like morphing wings

8:48 AM
Vedant Patel
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: Development of a haptic feedback system for prosthetic arms.

8:54 AM
Polache Quennebelle Kimberly, Michael Hipolito, Oscar Sanchez and Sahil Khatra
Undergraduate
Department of Computer Science
Faculty Mentor: Alex Modaressi
Title of Presentation: Stock Bot

9:00 AM
Brenda Rios and Daniel Lu
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Shadi Mahjoob
Title of Presentation: Quantification of carbon fiber interference with radio waves between receiver and transmitter for RC planes in terms of concealment and percentage of signal loss
8:30 AM  
Daniel Dakduk  
Undergraduate  
Department of Biology  
Faculty Mentor: Jeremy Yoder  
Title of Presentation: Using iNaturalist and PRISM weather data to produce a species distribution model for toyon (Heteromeles arbutifolia)

8:36 AM  
Gabriela Gajardo Del Real  
Undergraduate  
Department of Biology  
Faculty Mentor: Cindy Malone  
Title of Presentation: Assessing the function of Smad1 and Smad5 in the specification of dorsal neuron identity using mouse embryonic stem cells as a model system

8:42 AM  
Diana Ibrahim  
Undergraduate  
Department of Biology  
Faculty Mentor: Cindy Malone  
Title of Presentation: Modeling the Emergence of Neural Network Dysfunction in Rett Syndrome with Mosaic Organoids

8:48 AM  
Gabriella Rivas  
Undergraduate  
Department of Biology  
Faculty Mentor: Cindy Malone  
Title of Presentation: Investigation of DNA Damage Pathways Through Development in Rett Syndrome

8:54 AM  
Cristian Rodriguez  
Undergraduate  
Department of Biology  
Faculty Mentor: Mariano Loza-coll  
Title of Presentation: Exploring New Approaches to Studying Inheritance of Ethanol Resistance in Flies

9:00 AM  
Delaram Zare  
Undergraduate  
Department of Biology  
Faculty Mentor: Cindy Malone  
Title of Presentation: Maintenance of Hematopoietic Stem Cells with Small Molecule Inhibitors
3-Minute Oral Presentation Session 3, Undergraduate Students
Colleges of Science and Mathematics & Social and Behavioral Sciences
8:30 AM - 9:06 AM, Completed Stage

8:30 AM
Debra Duguil
Undergraduate
Department of Biology
Faculty Mentor: Cindy Malone
Title of Presentation: Promoting the Maturation of Skeletal Muscle Progenitor Cells to Satellite Cells Through Activation of Nuclear Receptors

8:36 AM
Nidah Mohammed
Undergraduate
Department of Psychology
Faculty Mentor: Stefanie Drew
Title of Presentation: A Reexamination of TikTok Use and Sustained Visual Attention

8:42 AM
Amberly Sanden
Undergraduate
Department of Biology
Faculty Mentor: Cindy Malone
Title of Presentation: Investigating the Effect of mtDNA Mutations on Pluripotent Stem and Progenitor Cells

8:48 AM
Pionik Shahgholian
Undergraduate
Department of Biology
Faculty Mentor: Cindy Malone
Title of Presentation: Initial culture conditions of hESC/ hiPSC cultures impact the efficiency of sensory interneuron differentiation in vitro

8:54 AM
Brittany Stovall-No Longer Presenting
Undergraduate
Department of Psychology
Faculty Mentor: Gabriela Chavira
Title of Presentation: How BIPOC Faculty Positively Influence the Academic Experiences of BIPOC Students

9:00 AM
Maya Zarafshan
Undergraduate
Department of Biology
Faculty Mentor: Cindy Malone
Title of Presentation: Nucleolin
3-Minute Oral Presentation Session 4, Graduate Students
Colleges of Health and Human Development, Science and Mathematics, Social and Behavioral Sciences
9:30 AM - 10:12 AM, Completed Stage

9:30 AM
Taylor Barragan
Graduate
Department of Communication Disorders and Sciences
Faculty Mentor: Vickie Yu
Title of Presentation: The intention behind borrowed speech

9:36 AM
Stephan Fitzpatrick
Graduate
Department of Kinesiology
Faculty Mentor: Teri Todd
Title of Presentation: The Effect of a 6-week Aquatic Exercise Intervention on Postural Sway in Children with Autism Spectrum Disorder (ASD)

9:42 AM
Jake Klorman
Graduate
Department of Physics and Astronomy
Faculty Mentor: Kah Chun Lau
Title of Presentation: First-Principles Study of Lithium Salt Solvates

9:48 AM
Glenda Miranda and Reina Black
Graduate
Department of Family and Consumer Sciences
Faculty Mentor: Annette Besnilian
Title of Presentation: Let's Cook Healthy App (WIC App)

9:54 AM
Tyler Nash
Graduate
Department of Sociology
Faculty Mentor: Judith Debonis
Title of Presentation: Utilizing Cannabis for the Treatment of Opioid Use Disorders: A Scoping Review

10:00 AM
Jordy Penagos
Graduate
Department of Social Work
Faculty Mentor: Jodi Brown
Title of Presentation: LA Compost Grant Proposal

10:06 AM
Janelli Pineda
Graduate
Department of Chemistry and Biochemistry
Faculty Mentor: Paula Fischhaber
Title of Presentation: Creation of a Yen1-RFP strain of S. cerevisiae for Investigation of Yen1 in Double Strand Break Repair
3-Minute Oral Presentation Session 5, Graduate Students
Colleges of Arts, Media, and Communication, Education, Humanities & Social and Behavioral Sciences
9:30 AM - 10:06 AM, Completed Stage

9:30 AM
Gabriella Bluvband
Graduate
Department of Music
Faculty Mentor: Diane Ketchie
Title of Presentation: Art Songs and Arias from Mozart to Hoiby

9:36 AM
Melora Garcia
Graduate
Department of Art
Faculty Mentor: Christian Tedeschi
Title of Presentation: Collections as Identity

9:42 AM
Thomas Kollie
Graduate
Department of Secondary Education
Faculty Mentor: Brian Foley
Title of Presentation: The Benefits of Augmented Reality in Education

9:48 AM
Kyle Moreno
Graduate
Department of Psychology
Faculty Mentor: Gabriela Chavira
Title of Presentation: Predicting Success: Educational Aspirations and Achievement Among Latinx High School Students

9:54 AM
Melissa Pistone
Graduate
Department of English
Faculty Mentor: Jackie Stallcup
Title of Presentation: Captivating and Repelling: Satirizing Parasocial Relationships in Bo Burnham’s Inside

10:00 AM
Kali Raglin
Graduate
Department of Journalism
Faculty Mentor: Melissa Wall
Title of Presentation: Search and Rescue
3-Minute Oral Presentation Session 6, Graduate Students
College of Social and Behavioral Sciences
9:30 AM - 10:18 AM, Completed Stage

9:30 AM
Amira Alloush
Graduate
Department of Social Work
Faculty Mentor: Judith DeBonis
Title of Presentation: Trauma in Exile: Finding "Home" After Forced Displacement

9:36 AM
Kate Kornberg
Graduate
Department of Social Work
Faculty Mentor: Jodi Brown
Title of Presentation: Exploring the social health and wellbeing of adults experiencing homelessness attending a low-barrier drop-in center in Hollywood

9:42 AM
Jenny Lam
Graduate
Department of Social Work
Faculty Mentor: Jodi Brown
Title of Presentation: 2nd Generation Chinese American Mental Health Stigma

9:48 AM
Taylor Miklos
Graduate
Department of Social Work
Faculty Mentor: Hyun Sun Park
Title of Presentation: Perceptions of Prolonged Grief Disorder (PGD) within the Mental Health Field

9:54 AM
McKian Nielsen
Graduate
Department of Social Work
Faculty Mentor: Judith DeBonis
Title of Presentation: What Does It Mean to Thrive with Schizophrenia?

10:00 AM
Yvette Salgado
Graduate
Department of Social Work
Faculty Mentor: Jodi Brown
Title of Presentation: Social Workers with Adverse Childhood Experiences: How do they cope with Secondary Trauma Stress

10:06 AM
Noelle Simpson and Michelle Anderson
Graduate
Department of Social Work
Faculty Mentor: Jodi Brown
Title of Presentation: Experiences of Deaf/Hard of Hearing Youth in the Child Welfare System

10:12 AM
Gina Takhtadjian
Graduate
Department of Social Work
Faculty Mentor: Jeanna Jacobsen
Title of Presentation: Child Sexual Assault and the Armenian Community
3-Minute Oral Presentation Session 7, Undergraduate Students

Colleges of Engineering and Computer Science, Health and Human Development & Science and Mathematics

10:30 AM - 11:12 AM, Preliminary/Proposal Stage

10:30 AM
Daniella Barrios and Ameera Tariq
Undergraduate
Department of Communication Disorders and Sciences
Faculty Mentor: Vickie Yu
Title of Presentation: Awareness of Audiology and Speech-Pathology Professions Among College Students

10:36 AM
Ithan Cano
Undergraduate
Department of Biology
Faculty Mentor: Mariano Loza-Coll
Title of Presentation: Regulation of Drosophila intestinal stem cells by the nuclear envelope protein Klaroid (Koi)

10:42 AM
Courtney Frazier
Undergraduate
Department of Biology
Faculty Mentor: Mariano Loza Coll
Title of Presentation: Functional analysis of Escargot and STAT targets in intestinal stem cells of the Drosophila melanogaster posterior midgut

10:48 AM
Ruben Granados and Joshua Boelter
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Christoph Schaal
Title of Presentation: Nondestructive Testing Robot

10:54 AM
Jigar Patel
Undergraduate
Department of Biology
Faculty Mentor: Cindy Malone

11:00 AM
Gabriel Rubio
Undergraduate
Department of Biology
Faculty Mentor: Cheryl Van Buskirk
Title of Presentation: PKCs may play a role in the activation of a sleep-inducing protease ADM-4

11:06 AM
Lia Yaghobi, Gevork Manukyan, Gevorg Atoyan, Leo Hacopian and Narek Minasyan-No Longer Presenting
Undergraduate
Computer Science
Faculty Mentors: Bendavid Cecile and Kyle Dewey
Title of Presentation: Techometer: A Simpler Way to Host Behavioral Experiments
3-Minute Oral Presentation Session 8, Graduate Students

Colleges of Arts, Media, and Communication, Education, Engineering and Computer Science, Health and Human Development & Science and Mathematics

10:30 AM - 11:18 AM, Preliminary/Proposal Stage

10:30 AM
Cameron Atighetchi
Graduate
Department of Biology
Faculty Mentor: Carlos Eduardo Guerra Amorim
Title of Presentation: The Genetic Basis of Systemic Lupus Erythematosus (SLE) in diverse ancestries

10:36 AM
Rosemarie Haiyan Girón
Graduate
Department of Communication Disorders and Sciences
Faculty Mentor: Vickie Yu
Title of Presentation: MBSS Scoring Inconsistencies Between SLPs

10:42 AM
David Gray
Graduate
Department of Physics and Astronomy
Faculty Mentor: Debi Prasad Choudhary
Title of Presentation: Limb Definition of He I 1083 nm Emission Lines Along the Solar Chromosphere

10:48 AM
Richard Kishimoto and Josh Matsunaga
Graduate
Department of Physical Therapy
Faculty Mentors: Aimie Kachingwe and Margaret Roller
Title of Presentation: Dynamic Vision Testing and Concussion Management

10:54 AM
Elizabeth Ortiz
Graduate
Department of Biology
Faculty Mentor: Jonathan Kelber
Title of Presentation: Morphology and Expansion of HER2-Positive Breast Cancer Patient-Derived Organoids and 3D Tumor Cell Line Cultures

11:00 AM
Cheyenne Tompkins
Graduate
Department of Educational Psychology and Counseling
Faculty Mentor: Deborah Buttitta
Title of Presentation: The Underdiagnosed of Black Youth with ADHD and Parent-Child Interaction Therapy

11:06 AM
Kevin Yanik
Graduate
Department of Mechanical Engineering
Faculty Mentor: Christoph Schaal
Title of Presentation: Autonomous Robotic Applications for Non-Destructive Testing

11:12 AM
Jing Jing Zhang
Graduate
Department of Communication Studies
Faculty Mentor: Gina Giotta
Title of Presentation: Distorting Asian Female Representation in the Marvel Cinematic Universe: The Old and New Patterns (still working)
3-Minute Oral Presentation Session 9, Graduate Students
Colleges of Health and Human Development and Social and Behavioral Sciences
10:30 AM - 11:12 AM, Preliminary/Proposal Stage

10:30 AM
Celeste Arreaza
Graduate
Department of Social Work
Faculty Mentor: Jeanna Jacobsen
Title of Presentation: Mental Health Caregiver Support as Perceived by Latinx Youth

10:36 AM
Sonia Avila Contreras
Graduate
Department of Psychology
Faculty Mentor: Jill Quilici
Title of Presentation: Guilty Wrappers: Can Food Wrappers Promote Feelings of Guilt in the Context of Global Warming?

10:42 AM
Lucy Balian
Graduate
Department of Social Work
Faculty Mentor: Jeanna Jacobsen
Title of Presentation: Family Quality and Latinx Youth Criminal Justice Involvement

10:48 AM
Vivian Garcia
Graduate
Department of Social Work
Faculty Mentor: Hyun-Sun Park
Title of Presentation: Immigrant Workers, Exploitation of Labor, and Labor Organizing Practices

10:54 AM
Emily Maloney
Graduate
Department of Social Work
Faculty Mentor: Hyun-Sun Park
Title of Presentation: Environmental Justice in Social Work Education: Are MSW Programs Effectively Educating Social Workers to Respond to a Changing Environment?

11:00 AM
Talia Plachta
Graduate
Department of Social Work
Faculty Mentor: Hyun-Sun Park
Title of Presentation: Parenting Styles and Intergenerational Transmission of Trauma in Direct Descendants of Holocaust Survivors

11:06 AM
Dina Stein
Graduate
Department of Communication Disorders and Sciences
Faculty Mentor: Vickie Yu
Title of Presentation: Perspectives and Strategies of Heritage Language Maintenance in Hebrew-Speaking Americans
10-Minute Oral Presentations, Sessions 1-19
Session 1-Graduate Students
Colleges of Arts, Media, and Communication, Health and Human Development, Science and Mathematics & Social and Behavioral Sciences
8:30 AM - 11:00 AM, Completed Stage

8:30 AM
Erika Cardenas and Katherine Lee
Graduate
Department of Family and Consumer Sciences
Faculty Mentors: Annette Besnilian and April Diederich
Title of Presentation: Implementing a Culinary Medicine Curriculum to Improve Future Health Professionals’ Confidence in Nutrition Knowledge, Culinary Skills, and Providing Nutrition Recommendations.

8:50 AM
Justin Gluck
Graduate
Department of Psychology
Faculty Mentor: Stefanie Drew
Title of Presentation: If you speed it up is it fast enough: The investigation of playback speed and working memory

9:10 AM
Stephanie Gurewitz
Graduate
Department of Journalism
Faculty Mentor: Melissa Wall
Title of Presentation: Relationships Between People with Disabilities and New Media

9:30 AM
Felicity Gutierrez
Graduate
Department of Psychology
Faculty Mentor: Yolanda Vasquez-Salgado
Title of Presentation: The Relationship between Campus Engagement and Depressive Symptoms During the Transition to College: The Moderating Role of the Home Culture

9:50 AM Break

10:00 AM
Duyen Pham
Graduate
Department of Chemistry and Biochemistry
Faculty Mentors: Li Ye, Jheem Medh and Carrie Rothstein-Fisch
Title of Presentation: Improving student success in introductory chemistry course through a peer-assisted Supplemental Instruction program

10:20 AM
Gwendolyn Retzinger, Borna Golbarg, Wendy Pham, Kyle Dang, Joshua Vicente, Belle Ponce de Leon, Caroline Padilla-Ramirez, Naira Marootian and Jose Diaz
Graduate
Department of Kinesiology
Faculty Mentor: Jacob Hinkel-Lipsker
Title of Presentation: A.R.G! Augmented Reality and Gait: A feasibility study on the effects of cues delivered by AR

10:40 AM
Alexandra Schmitt
Graduate
Department of Psychology
Faculty Mentor: Justin Kantner
Title of Presentation: Mind Wandering, Mental Imagery, and the Combined Effects of Interpolated Pretesting and Testing on Learning
10-Minute Oral Presentation Session 2-Graduate Students
College of Science and Mathematics
8:30 AM - 11:20 AM, Completed Stage

8:30 AM
Nicole Babayans
Graduate
Department of Chemistry and Biochemistry
Faculty Mentor: Gagik Melikyan
Title of Presentation: Building a regioselectivity scale in Co2(CO)6-assisted, C-C bond forming reactions

8:50 AM
Swosti Choudhury
Graduate
Department of Physics and Astronomy
Faculty Mentor: Donna Sheng
Title of Presentation: Competing orders and d-wave superconductivity in the extended t-J model on square lattice

9:10 AM
Dylan Daw
Graduate
Department of Physics and Astronomy
Faculty Mentor: Tyler Luchko and Miroslav Peric
Title of Presentation: Modeling Room Temperature Ionic Liquids and Calculating Translational Diffusion Coefficients Using AMOEBA GEM Polarizable Force Field

9:30 AM
David De La Torre
Graduate
Department of Mathematics
Faculty Mentor: Meng-Che Ho
Title of Presentation: Quotients of the Free Left Distributive Algebra on One Generator

9:50 AM Break

10:00 AM
Jesus Hernandez
Graduate
Department of Chemistry and Biochemistry
Faculty Mentor: Joseph Teprovich
Title of Presentation: Elucidating the Photoluminescence of Lawsone-Based Polymer Dots for Biological Imaging

10:20 AM
Noorulhoda Kazemi
Graduate
Department of Physics and Astronomy
Faculty Mentor: Anna Bezryadina
Title of Presentation: Optical Studies of Lab-made Microplastics

10:40 AM
Blair Martin
Graduate
Department of Physics and Astronomy
Faculty Mentor: Luca Ricci
Title of Presentation: A Survey of Protoplanetary Disks in the Taurus Star Forming Region at Millimeter Wavelengths

11:00 AM
Jayson Sellars
Graduate
Department of Geological Science
Faculty Mentor: Eileen Evans
Title of Presentation: Automated block closure and resolution tests in dense block models
10-Minute Oral Presentation Session 3-Graduate Students

College of Science and Mathematics
8:30 AM - 11:00 AM, Completed Stage

8:30 AM
Danielle Barnas
Graduate
Department of Biology
Faculty Mentor: Nyssa Silbiger
Title of Presentation: Natural Environmental Gradients Alter Community Composition and Functional Diversity on Coral Reefs

8:50 AM
Georgina Campos
Graduate
Department of Geological Science
Faculty Mentor: Scott Hauswirth and Priya Ganguli
Title of Presentation: Assessing Trends in Contaminant Transport and Fate Following the 2018 Woolsey Wildfire

9:10 AM
Robert Dellinger
Graduate
Department of Biology
Faculty Mentor: Nyssa Silbiger
Title of Presentation: Facing Physiological Constraints: The Response of an Intertidal Gastropod to the Interactive Effects of Ocean Acidification and Warming

9:30 AM
Olivia Diehl
Graduate
Department of Biology
Faculty Mentor: Robert Carpenter
Title of Presentation: Investigating the interactive effects of herbivory and water flow on the morphology and metabolic rates of non-calcifying marine macroalgae

9:50 AM Break

10:00 AM
Jamie Kerlin
Graduate
Department of Biology
Faculty Mentor: Nyssa Silbiger
Title of Presentation: Coral growth rate and survivorship response to long-term environmental variability and small-scale reef neighborhood structure

10:20 AM
Jose Munoz Maravilla
Graduate
Department of Biology
Faculty Mentor: Peter Edmunds
Title of Presentation: Three-Dimensional Printing Can Provide Opportunities to Promote Coral Recruitment on Disturbed Reefs

10:40 AM
Shanelle Wikramanayake
Graduate
Department of Biology
Faculty Mentor: Jeanne Robertson
Title of Presentation: Investigating the neurological basis of speciation in a polymorphic neotropical treefrog, Agalychnis callidryas
10-Minute Oral Presentation Session 4-Graduate Students
College of Science and Mathematics
8:30 AM - 11:00 AM, Completed Stage

8:30 AM
Michelle Alcantara
Graduate
Department of Biology
Faculty Mentor: Yoshie Hanzawa
Title of Presentation: Verifying Inferred Regulatory Interactions in the Circadian Clock and Flowering Gene Networks in Soybean

9:50 AM Break

9:50 AM
Evan Rank
Graduate
Department of Biology
Faculty Mentor: Maria Elena de Bellard
Title of Presentation: Preferential melanoma migration

8:50 AM
Michelle Bonilla and Jocelyn Coreas
Graduate
Department of Biology
Faculty Mentor: Mariano Loza-Coll
Title of Presentation: Characterization of the Inheritance of Ethanol Resistance in Drosophila melanogaster

10:00 AM
Vanessa Tamayo
Graduate
Department of Biology
Faculty Mentor: Gilberto Flores
Title of Presentation: Variation in Bile Acid Resistance Among Human-Associated Akkermansia

9:10 AM
Amanda Di Maso
Graduate
Department of Biology
Faculty Mentor: Cristian Ruiz Rueda
Title of Presentation: Identifying AcrZ-dependent endogenous substrates of the AcrAB-TolC efflux pump in Escherichia coli

10:20 AM
Tiannah York Van Elslande
Graduate
Department of Physics and Astronomy
Faculty Mentor: Tyler Luchko
Title of Presentation: Modeling Magnesium Placements around Escherichia coli 70S Ribosome using 3D-RISM

9:30 AM
Vivian Vy Le
Graduate
Department of Biology
Faculty Mentor: Ray Hong
Title of Presentation: The molecular genetics of gustatory preferences in Pristionchus pacificus

10:40 AM
10-Minute Oral Presentation Session 5-Graduate Students
Colleges of Health and Human Development & Social and Behavioral Sciences
8:30 AM - 10:10 AM, Completed Stage
Theme: Health & Wellness in Minoritized Communities

8:30 AM
Remi Ali Khan
Graduate
Department of Social Work
Faculty Mentor: Jeanna Jacobsen
Title of Presentation: Women of Color Describe Their Past Experiences of Post-Partum Depression

8:50 AM
Karina Barragan
Graduate
Department of Health Sciences
Faculty Mentor: Claudia Toledo-Corral
Title of Presentation: Greater Exposure to Environmental Exposures is Differentially Associated with Greater Risk for Type 2 Diabetes for Latino and African American Youth

9:10 AM
Kimberly Felix
Graduate
Department of Health Sciences
Faculty Mentors: Claudia Toledo-Corral, Myriam Forster and Christopher Rogers
Title of Presentation: Associations between Cortisol Awakening Response, Hemoglobin A1c, and Socioeconomic Status among Adolescents from Minoritized communities

9:30 AM
Anna Pow
Graduate
Department of Social Work
Faculty Mentor: Hyun-Sun Park
Title of Presentation: The Impact of a Lack of Gender Affirming Peripartum Healthcare on Postpartum Depression, Anxiety and Trauma for Trans and Nonbinary Patients

9:50 AM
Madeleine Samayoa
Graduate
Department of Social Work
Faculty Mentor: Jeannan Jacobsen
Title of Presentation: Experiences of Latinx individuals surrounding mental health and their families perception of mental health
10-Minute Oral Presentation Session 6-Graduate Students
Colleges of Engineering and Computer Science & Health and Human Development
8:30 AM - 10:30 AM, Completed Stage

8:30 AM
Joseph Enriquez-Barton
Graduate
Department of Mechanical Engineering
Faculty Mentors: Christoph Schaal and Jamie Booth
Title of Presentation: Evaluation of contact defects in bio-inspired dry adhesives using guided waves

8:50 AM
Nelson Richardson Arevalo
Graduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: Effect of Extreme Delamination Size on the Frequency Response of a Laminated Composite Cantilever Beam

9:10 AM
Tyler Serna
Graduate
Department of Kinesiology
Faculty Mentors: Teri Todd and Sarah Victoria Jaque
Title of Presentation: Effects of an 8-week aquatic passive stretching intervention on range of motion in children with cerebral palsy

9:30 AM
Utsav Swami
Graduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: Experimental and Computational Analyses of Metallic and Composite Periodic Beams

9:50 AM
Annamaria Viazzo
Graduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: Control of a Generic Prosthetic Arm Using “Infinity” Foot Controller

10:10 AM
Jennifer White
Graduate
Department of Family and Consumer Sciences
Faculty Mentor: Elizabeth Sussman-Dabach
Title of Presentation: Dietitian Perspectives on Liberalizing Recommendations of Plant-Based Foods for Dialysis Patients
10-Minute Oral Presentation Session 7-Graduate Students
Colleges of Arts, Media, and Communication, Education & Humanities
8:30 AM - 10:30 AM, Completed Stage

8:30 AM
Erika Ayon
Graduate
Department of English
Faculty Mentor: Leilani Hall
Title of Presentation: Letters from the Grieving

8:50 AM
Nicholas Bonhomme
Graduate
Department of English
Faculty Mentor: Jennifer Lee
Title of Presentation: Language and the Internet

9:10 AM
Gregory Combes
Graduate
Department of English
Faculty Mentor: Jennifer Lee
Title of Presentation: Rhetorical Interactions in Mesoamerican Empires

9:30 AM
Kaylee Josefina
Graduate
Department of Educational Leadership and Policies Studies
Faculty Mentor: Dimpal Jain
Title of Presentation: An Examination of California's Community College Enrollment Crisis in the Wake of COVID-19

9:50 AM
Valerie Quiroga
Graduate
Department of English
Faculty Mentor: Jennifer Lee
Title of Presentation: We Are Americans: Necropolitics in Jordan Peele's "Us"

10:10 AM
Jeremy Zerbe
Graduate
Department of Music
Faculty Mentor: Alexandra Monchick
Title of Presentation: Biophilic Composition: Music as a Sonic Park
10-Minute Oral Presentation Session 8- Undergraduate Students
Colleges of Engineering and Computer Science, Health and Human Development & Social and Behavioral Sciences
8:30 AM - 11:20 AM, Completed Stage

8:30 AM
Nallely De La Rosa and Cristina Carrera
Undergraduate
Department of Child and Adolescent Development
Faculty Mentor: Rika Meyer
Title of Presentation: Emerging Model on Racially Marginalized Mental Health Service Providers and Their Clients

8:50 AM
Jazmine Duran
Undergraduate
Department of Anthropology
Faculty Mentor: Suzanne Scheld
Title of Presentation: Genuine Editing Via Reaction Videos

9:10 AM
Brannan Shepherd
Undergraduate
Department of Civil Engineering and Construction Management Technology
Faculty Mentor: Tadeh Zirakian
Title of Presentation: A study on effective-length factors of columns tested at CSUN’s Mechanics Laboratory

9:30 AM
Eddie Ramirez
Undergraduate
Department of Psychology
Faculty Mentor: Stefanie Drew
Title of Presentation: Smile, you're on camera! Exploring the relationship of Zoom Fatigue with videoconferencing camera usage and social cognitive elements

9:50 AM Break

10:00 AM
Joshua Boelter
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Shadi Mahjoob
Title of Presentation: Finite Element Analysis of a Flying Wing Structure Made of Layered and Composite Materials

10:20 AM
Estefany Ortega and Eric Arakelian
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Shadi Mahjoob
Title of Presentation: Elevons: Control Surfaces for Tailless Aircraft

10:40 AM
Matthew Gosparini, Tiffany Haghighi and Estefano Sanchez
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: Infinity-2: A lightweight below-the-elbow prosthetic arm with enhanced grip functionality, haptic feedback system, and a foot controller

11:00 AM
Evette Minassian, Matthew Brody and Scott Massey
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: MataGull, a bio-inspired lightweight non-flapping bird-like morphing drone.
10-Minute Oral Presentation Session 9-Undergraduate Students

College of Science and Mathematics
8:30 AM - 11:00 AM, Completed Stage

8:30 AM
Ana Karina Andrade
Undergraduate
Department of Biology
Faculty Mentor: Jeremy Yoder
Title of Presentation: The Power of Flowering Data in Studying the Health of Joshua Tree Populations Throughout the Mojave

9:00 AM Break

9:30 AM
Caroline Coto and Adrian Arimie
Undergraduate
Department of Biology
Faculty Mentor: Cheryl Van Buskirk
Title of Presentation: Can sleeping worms be used to test anti-cancer drugs?

9:50 AM Break

10:00 AM
Megan Hampton
Undergraduate
Department of Biology
Faculty Mentor: Ray Hong
Title of Presentation: A tale of dopamine and serotonin in two worms

10:00 AM
Nicole Bisente
Undergraduate
Department of Biology
Faculty Mentor: Robert Espinoza
Title of Presentation: A Comparative Analysis of Morphological Variation among Invasive Populations of Mediterranean House Geckos across the USA

10:20 AM
Mauro Patimo
Undergraduate
Department of Physics and Astronomy
Faculty Mentor: Luca Ricci
Title of Presentation: Age determination of protoplanetary disks

10:40 AM
Ranel Tuplano
Undergraduate
Department of Biology
Faculty Mentor: Jonathan Kelber
Title of Presentation: DHPS and SLC3A2 Cooperate with Fibronectin to Govern Spheroid Growth and CDK4/6 Inhibitor Response in Triple Negative Breast Cancer
10:00 AM
Benjamin Maries
Undergraduate
Department of Sociology
Faculty Mentors: Daniel Olmos and Moshoula Desyllas-Capous
Title of Presentation: Rethinking the Urban Commons

10:20 AM
Raphael Perez, Sahil Keniya, and Ivan Ayon
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Shadi Mahjoob
Title of Presentation: Aerodynamic analysis of a flying wing aircraft

10:40 AM
Brian Sanchez
Undergraduate
Department of Mechanical Engineering
Faculty Mentors: Natalie Schaal and Peter Bishay
Title of Presentation: Experimental and Computational Analyses of a Cantilever Beam Subjected to Large Deformations

11:00 AM
Jan-David Soutar
Undergraduate
Department of Cinema and Television Arts
Faculty Mentors: Jared Rappaport and Nate Thomas
Title of Presentation: A Scholastic Affair - Short Film
10-Minute Oral Presentation Session 11-Graduate Students

College of Social and Behavioral Sciences
12:30 PM - 2:30 PM, Completed Stage

12:30 PM
Erika Baron and Alex Blake
Graduate
Department of Social Work
Faculty Mentor: Hyun Sun Park
Title of Presentation: Effects of U.S. state gender-oriented legislation on minority stress and resiliency in transgender adults

12:50 PM
Cinthia Camacho, Brenda Jauregui, Melanie Machorro, Cintia Soares de Castro and Maryna Bankovska
Graduate
Departments of Social Work, Health Sciences and Psychology
Faculty Mentor: Hui (Jimmy) Xie
Title of Presentation: An Analysis of Senior Center Programs' Offerings in Los Angeles and Neighboring Counties

1:10 PM
Jerry Concha
Graduate
Department of Political Science
Faculty Mentor: Keiko Hirata
Title of Presentation: US Withdrawal from JCPOA and Its Effect on China’s Energy Needs

1:30 PM
Danielle Morales
Graduate
Department of Sociology
Faculty Mentor: Michael Carter
Title of Presentation: The Mediating Effect of Organizational Diversity: Exploring How Negative Workplace Disruptions Can Be Moderated by a Diverse Workforce

1:50 PM
Arianna Roby
Graduate
Department of Psychology
Faculty Mentor: Stefanie Drew
Title of Presentation: Under the Umbrella: Gender Identity, Virtual Reality Video Presentation, and Social Presence Relationship with Elements of Job Hiring

2:10 PM
Shiyla Terry
Graduate
Department of Psychology
Faculty Mentors: Que-Lam Huynh and Angela-MinhTu D. Nguyen
Title of Presentation: Liberation Through Counterspace Collaboration: The Impact of Diversity Resources on Critical Action
10-Minute Oral Presentation Session 12-Graduate Students
College of Social and Behavioral Sciences
12:30 PM - 2:30 PM, Completed Stage

12:30 PM
Chach Hernandez
Graduate
Department of Social Work
Faculty Mentors: Jeanna Jacobsen
Title of Presentation: Medical Social Workers and Socially Just Practices

12:50 PM
Timothy Huck, Alejandra Zamora and Edith Vasquez
Graduate
Department of Psychology
Faculty Mentors: Chunying Jin
Title of Presentation: Within-Session Analysis of Prevention Assessment of Challenging Behavior in Young Children

1:10 PM
Richard Hurtado and Galileo Guzman
Graduate
Department of Psychology
Faculty Mentors: Sun-Mee Kang
Title of Presentation: Do individuals with low empathy display the negativity bias?

1:30 PM
Vicken Mouradian
Graduate
Department of History
Faculty Mentor: Rachel Howes
Title of Presentation: Love in Ancient Armenia: Love, Women, and Identity in the Pre-Christian Tradition

1:50 PM
Natalie McDonald
Graduate
Department of History
Faculty Mentor: Erik Goldner
Title of Presentation: Taking Root' in the Sahara: French Algeria's Centennial Congrès d'El-Goléa, 1930

2:10 PM
Reante Talton
Graduate
Department of Psychology
Faculty Mentor: Sara Berzenski
Title of Presentation: The effects of parenting behaviors and parent emotion socialization on young adults' emotion competence
10-Minute Oral Presentation Session 13-Undergraduate Students  
*College of Science and Mathematics*  
12:30 PM - 2:10 PM, Preliminary/Proposal Stage

12:30 PM  
**Andrew Fraire and Matthew Green**  
Undergraduate  
Department of Chemistry and Biochemistry  
**Faculty Mentor:** Joseph Teprovich  
**Title of Presentation:** Zinc Closo-borate Electrolyte for Aqueous Battery Systems

1:30 PM  
**Alexander McMahon**  
Undergraduate  
Department of Physics and Astronomy  
**Faculty Mentor:** Tyler Luchko  
**Title of Presentation:** Polarization Corrections for Multivalent Ions in Molecular Salvation Theory

12:50 PM  
**Erick Gonzalez and Tamryn Spinner**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Sean Murray  
**Title of Presentation:** Regulation of a dynamically-localizing polyester by three Caulobacter crescentus transcription factors

1:50 PM  
**Helia Yaleh**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Abdelaziz Boulesbaa  
**Title of Presentation:** Synthesis of Cadmium Selenide Quantum Dots

1:10 PM  
**Tyler Harry, Natalia Kaliszuk and Cruz Robinson**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Sean Murray  
**Title of Presentation:** Overexpression of a bacterial efflux pump causing multidrug resistance and reduced motility in Caulobacter crescentus
10-Minute Oral Presentation Session 14-Undergraduate Students  
*College of Science and Mathematics*  
**12:30 PM - 2:30 PM, Preliminary/Proposal Stage**

**12:30 PM**  
**Daniela Alonzo**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Cindy Malone  
**Title of Presentation:** Gene Expression of the Ubiquitin-Specific Peptidase 47 Promoter Region

**12:50 PM**  
**Dain Dayo**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Cindy Malone  
**Title of Presentation:** Characterizing the Promoter Region of RAD51AP1

**1:10 PM**  
**Alyssa Parra**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Cindy Malone  
**Title of Presentation:** Gene regulation of the Transducin-Like Enhancer of split 1 promoter region

**1:30 PM**  
**Kit Cheung**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Gilberto Flores  
**Title of Presentation:** Interactions between Akkermansia muciniphila and Bifidobacterium bifidum, key members of the human gut microbiome

**1:50 PM**  
**Mayra Meza and Andrea Gutierrez**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Melissa Takahashi  
**Title of Presentation:** Developing a gene expression assay to test biomolecules designed to interfere with an essential stress response pathway in Escherichia coli

**2:10 PM**  
**Audrey Todd**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Jonathan Kelber  
**Title of Presentation:** Molecular Analyses of Multicellular Pancreatic Cancer Spheroids
10-Minute Oral Presentation Session 15-Graduate Students

College of Science and Mathematics

12:30 PM - 2:30 PM, Preliminary/Proposal Stage

12:30 PM
Ashlee Ochoa
Graduate
Department of Biology
Faculty Mentor: Cindy Malone
Title of Presentation: Characterization and Evolutionary Conservation of the UVRAG Promoter

1:30 PM
Jesse Jones
Graduate
Department of Biology
Faculty Mentor: Cheryl Van Buskirk
Title of Presentation: Identification of a New Sleep-Promoting Ligand and Its Sheddase

12:50 PM
Cynthia Petrossian
Graduate
Department of Biology
Faculty Mentor: Mariano Loza-Coll
Title of Presentation: Cross-regulatory interactions among downstream targets of the master regulator genes Escargot and Stat92E in Drosophila melanogaster intestinal stem cells

1:50 PM
Victor Gutierrez-Garcia
Graduate
Department of Biology
Faculty Mentor: Cindy Malone
Title of Presentation: Characterization of POLR3B Promoter Region Through the Luciferase Activity of Transiently Transfected HEK 293T Cells

1:10 PM
Arturo Ramirez
Graduate
Department of Physics and Astronomy
Faculty Mentor: Anna Bezryadina
Title of Presentation: Light propagation effects in DNA

2:10 PM
Vahe Grigorian
Graduate
Department of Physics and Astronomy
Faculty Mentor: Tyler Luchko
Title of Presentation: Predicting Solvation Energies Using an Active-Learning Model With Random-Trajectory Sampling
10-Minute Oral Presentation Session 16-Graduate Students

College of Science and Mathematics
12:30 PM - 2:10 PM, Preliminary/Proposal Stage

12:30 PM
Adelaide Dahl
Graduate
Department of Biology
Faculty Mentor: Peter Edmunds
Title of Presentation: Does size matter? Habitat spatial structure relationships to biodiversity on a patch reef in Moorea, French Polynesia

12:50 PM
Jack Dirck
Graduate
Department of Biology
Faculty Mentors: Robert Espinoza and Jeanne Robertson
Title of Presentation: Can Human-mediated Dispersal Promote Invasion Success? Using Population Genomics to Test the Paradox of Invasion for a Widely Introduced Reptile

1:10 PM
Sean Farmer
Graduate
Department of Biology
Faculty Mentor: Robert Espinoza
Title of Presentation: Demystifying the Paradoxical Rarity of the Common Garter Snake (Thamnophis sirtalis) in Southern California

1:30 PM
Diego Gomez-Morales
Graduate
Department of Biology
Faculty Mentor: David Gray
Title of Presentation: Acoustic response of insects to wildfires in the Santa Monica Mountains.

1:50 PM
Gillian Rhea
Graduate
Department of Geological Science
Faculty Mentor: Joshua Schwartz
Title of Presentation: Mobilization of Intermediate to Felsic Melts and Cumulate Formation in a Lower Crustal Mush Zone
10-Minute Oral Presentation Session 17-Graduate Students
Colleges of Engineering and Computer Science & Health and Human Development
12:30 PM - 3:00 PM, Preliminary/Proposal Stage

12:30 PM
Kathryn Davis
Graduate
Department of Mechanical Engineering
Faculty Mentor: Christoph Schaal
Title of Presentation: Autonomous Inspection Robots with Machine Learning Capabilities for Nondestructive Damage Detection in Composite Structures

12:50 PM
Kimberly Hernandez
Graduate
Department of Kinesiology
Faculty Mentor: Danielle Jarvis
Title of Presentation: Implementing an 8-week strength training program in dancers

1:10 PM
Janet Lee, Deanna Sims and Aidee Corona
Graduate
Department of Physical Therapy
Faculty Mentor: Witaya Mathiyakom
Title of Presentation: Normative Data of Gans Sensory Organization Performance (SOP) Test

1:30 PM
Skye-Lyn Lew
Graduate
Department of Health Sciences
Faculty Mentor: Louis Rubino
Title of Presentation: The future of telemedicine and its implications for healthcare delivery

1:50 PM BREAK

2:00 PM
Jacob Maldonado
Graduate
Department of Mechanical Engineering
Faculty Mentor: Natalie Schaal
Title of Presentation: Microscopic investigation of plastic deformation, with a focus on aluminum alloys and dynamic failure

2:20 PM
Erik Serrano
Graduate
Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Title of Presentation: Experimental Analysis of a Cantilever Beam Subjected to Large Dynamic Loads

2:40 PM
Ricardo Tolentino
Graduate
Department of Kinesiology
Faculty Mentor: Danielle Jarvis
Title of Presentation: Comparing the differences between a portable motion capture and stationary motion capture system
10-Minute Oral Presentation Session 18-Graduate Students
Colleges of Arts, Media, and Communication, Engineering and Computer Science, Humanities & Social and Behavioral Sciences
12:30 PM - 1:50 PM, Preliminary/Proposal Stage

12:30 PM
Vivian Epitacio
Graduate
Public Administration Program
Faculty Mentor: Anaïs Valiquette L’Heureux
Title of Presentation: Quality of life

1:10 PM
Alicia Gabrielle Puzon
Graduate
Department of Journalism
Faculty Mentor: Melissa Wall
Title of Presentation: Women politicians in the Philippines on social media: new spaces for female empowerment or a repackaging within old norms?

12:50 PM
Lucas Keeling
Graduate
Department of English
Faculty Mentor: Jennifer Lee
Title of Presentation: Literacy, Identity, and Catharsis: How Narratives Can Help us Write Ourselves

1:30 PM
Natalie Stroud
Graduate
Assistive Technology Engineering
Faculty Mentors: Andy Lin and Li Liu
Title of Presentation: TamTalk: Building an AAC Application to Close the Gap in Communication for Hard of Hearing Individuals
10-Minute Oral Presentation Session 19-Graduate Students
College of Social and Behavioral Sciences
12:30 PM - 2:10 PM, Preliminary/Proposal Stage

12:30 PM
Erick Carranza and Ruby Rodriguez
Graduate
Department of Psychology
Faculty Mentor: Omar Ruvalcaba

12:50 PM
Bruno Gamboa
Graduate
Department of Psychology
Faculty Mentor: Mark Otten
Title of Presentation: BSI-18 as a Measure of Psychological Distress Across Different Domains in TMS Patients

1:10 PM
Srishti Katuri
Graduate
Department of Psychology
Faculty Mentor: Elise Fenn
Title of Presentation: The Implications of Racial Emotion Stereotypes in Jury Deliberations

1:30 PM
Brittany Matyus
Graduate
Department of Social Work
Faculty Mentor: Jeanna Jacobsen
Title of Presentation: Conservative Religious Upbringing and Sexual Minorities Perceptions: A PhotoVoice Project

1:50 PM
Serena Nuber
Graduate
Department of Psychology
Faculty Mentor: Holli Tonyan
Title of Presentation: Family Child Care Providers: Caregivers' Knowledge about Children's Development and Mental Health
Morning Poster Session, Groups 1-11  
10:00 AM - 11:30 AM

Poster Group 1  
*Colleges of Engineering and Computer Science & Science and Mathematics*  
Undergraduate, Completed Stage

Anthony Bonilla, David Limoudim and Ardeshir Nahidsepehr  
Undergraduate  
Department of Mechanical Engineering  
**Faculty Mentor:** Peter Bishay  
**Title of Presentation:** Design and testing of a lightweight prosthetic arm with enhanced actuation, haptic feedback system, and a foot controller

Erik Munoz, Narek Gharibi and Kevin Bradley  
Undergraduate  
Department of Mechanical Engineering  
**Faculty Mentor:** Peter Bishay  
**Title of Presentation:** Design of a bio-inspired lightweight non-flapping bird-like morphing drone

Melissa Chow, Rocio Zavala and Teodorico Nicolau  
Undergraduate  
Department of Mechanical Engineering  
**Faculty Mentor:** Jamie Booth  
**Title of Presentation:** Effect of Surface Roughness on the Performance of a Bioinspired Dry Adhesive

Melissa Chow, Rocio Zavala and Teodorico Nicolau  
Undergraduate  
Department of Mechanical Engineering  
**Faculty Mentor:** Jamie Booth  
**Title of Presentation:** Effect of Surface Roughness on the Performance of a Bioinspired Dry Adhesive

Maya Bocanegra  
Undergraduate  
Department of Mathematics  
**Faculty Mentor:** Norma Ortiz-Robinson  
**Title of Presentation:** Optimal Control Applied to Wolf and Moose Population Dynamics
Donnie Ca  
Undergraduate  
Department of Chemistry and Biochemistry  
**Faculty Mentor:** Thomas Minehan  
**Title of Presentation:** DNA Major Groove Binding of Synthetic Trimethylmethane Derivatives

Sarah Chavez  
Undergraduate  
Department of Chemistry and Biochemistry  
**Faculty Mentor:** Paula Fischhaber  
**Title of Presentation:** Investigating the Binding Domain between Rad1 and Slx4 Proteins in the Yeast DNA Double-strand Break Repair Pathway

Jessica Sandoval  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Rachel Mackelprang  
**Title of Presentation:** Cultivation of Microbial "First Responders" to Permafrost Thaw

Eleonora Sarkisyan  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Rachel Mackelprang  
**Title of Presentation:** Characterization of Paenibacillus spp. from Ancient Thawing Permafrost

Sabrina Sharma and Ivan Gallegos  
Undergraduate  
Department of Chemistry and Biochemistry  
**Faculty Mentor:** Eric Kelson  
**Title of Presentation:** Phenanthroline-based “Trojan Horse” anti-tumor agents

Natalie Castillo  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Robert Espinoza  
**Title of Presentation:** Differences in life-history strategies may explain the rapid displacement of native Black Widows by invasive Brown Widows in urban Southern California

Luke Tomaneng  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Jonathan Kelber  
**Title of Presentation:** Retinoic Acid Induced 14 Drives Pancreatic Cancer Cell Proliferation and Survival
Poster Group 3
Colleges of Health and Human Development & Social and Behavioral Sciences
Undergraduate, Completed Stage

Savanna Silva, Kevin Landaverde and Evelyn Arrieta
Undergraduate
Department of Psychology
**Faculty Mentors:** Yolanda Vasquez-Salgado and Claudia Toledo-Corral
**Title of Presentation:** The Association Between Peer-Peer Cultural Value Mismatch and Body Fat Among Minority Students During the Transition to College

Christy Rodriguez, Yoselin De Leon Lazo and Joshua Vazquez
Undergraduate
Department of Psychology
**Faculty Mentors:** Yolanda Vasquez-Salgado, Claudia Toledo-Corral and Shu-Sha Angie Guan
**Title of Presentation:** The Relationship Between Perceived Stress and Body Fat Among Minority Students During the Transition to College

Breana Aceituno
Undergraduate
Department of Health Sciences
**Faculty Mentor:** Claudia Toledo-Corral
**Title of Presentation:** Higher Environmental Pollution Burden Scores are Associated with Higher Cardiovascular Disease Risk

Noel Lawson, Whitney Gibson, Isabel Chen and Ninel Aghajani
Undergraduate
Department of Family and Consumer Sciences
**Faculty Mentor:** Dena Herman
**Title of Presentation:** The Family Kitchen (FK) Research Project: Nutrition Education Brings Families Together to Form Healthy Habits

Britney Martinez
Undergraduate
Department of Psychology
**Faculty Mentor:** Abraham Rutchick
**Title of Presentation:** Mismatch between police and civilians' perceptions of police-civilian interactions.
Poster Group 4
College of Social and Behavioral Sciences
Undergraduate, Completed Stage

Ethan Castanon
Undergraduate
Department of Psychology
Faculty Mentor: Stefanie Drew
Title of Presentation: Active Vs. Passive, What Predicts Mindfulness? Investigating the Effects of Mindfulness When Interacting with TikTok

Victoria Fawcette, Adriana Lopez Vasquez, Tyler Tulman and Sonia Avila Contreras
Undergraduate
Department of Psychology
Faculty Mentor: Jill Quilici
Title of Presentation: Conspiratorial Ideations Impact On Vaccine Acceptance

Veronica Gutierrez
Undergraduate
Department of Psychology
Faculty Mentor: Jill Razani
Title of Presentation: Effects of Culture on the Neuropsychological Test Performance of Latinx-Americans

Andranik Yelanyan
Undergraduate
Department of Psychology
Faculty Mentors: Scott Plunkett and Yoko Mimura
Title of Presentation: Relationship Between Family Wealth, Financial Stress, and Overall Quality of Life Among University Students

Seth Almaraz
Undergraduate
Department of Psychology
Faculty Mentor: Jill Razani
Title of Presentation: Perceived Burden Among Caregivers of Individuals with Alzheimer's Disease and Mild Dementia

Constanza Perez Romero
Undergraduate
Department of Psychology
Faculty Mentor: Debbie Ma
Title of Presentation: The Intersectional Identity Inventory Race-Gender
Poster Group 5
Colleges of Health and Human Development & Social and Behavioral Sciences
Undergraduate, Preliminary/Proposal Stage

Christian Benjamin, Dario Ibarra and Angela Sandez
Undergraduate
Department of Family and Consumer Sciences
Faculty Mentor: Rosalia Garcia
Title of Presentation: Valorization of Carrot Pomace

Penylopi Zabzdyr
Undergraduate
Department of Psychology
Faculty Mentor: Stefanie Drew
Title of Presentation: Impact of Presentation Medium on Executive Attention and Experienced Mindfulness following a Meditation Session.

Cathy Quach, Angelo Ghatas and Gabrielle Halim
Undergraduate
Department of Psychology
Faculty Mentor: Yolanda Vasquez-Salgado
Title of Presentation: Quality of Sleep and Educational Utility During the Transition to College: The Mediating Role of Depression

Andrew Salcedo Alvarez
Undergraduate
Department of Psychology
Faculty Mentor: Jonathan Martinez
Title of Presentation: The Impact of Sociodemographic Characteristics on the Relationship Between Physical Injury and Mental Health

Madison DeSmet
Undergraduate
Department of Family and Consumer Sciences
Faculty Mentors: Kristin King and Anna Paravano Frise
Title of Presentation: Rethinking Classroom Design to Support Mental Health and Psychological Wellness
Poster Group 6  
*College of Science and Mathematics*  
Undergraduate, Preliminary/Proposal Stage

**Svetlana Kuznyetsova**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Ray Hong  
**Title of Presentation:** Are thermotaxis neurons conserved in nematodes?

**Matthew Martinez**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Ray Hong  
**Title of Presentation:** The Role of G-proteins in Olfactory Behavior

**Philip Chung, Alyssa Valles and James Nguyen**  
Undergraduate  
Department of Chemistry and Biochemistry  
**Faculty Mentor:** Thomas Minehan  
**Title of Presentation:** A Proposed Route for the Total Synthesis of Mayamycin

**Rafael Estrada and Pablo Segundo**  
Undergraduate  
Department of Biology  
**Faculty Mentors:** Cristian Ruiz Rueda and Allea Cauilan  
**Title of Presentation:** Tricarboxylic Acid Cycle Compounds Increase Expression of the Multiple Antibiotic Resistance (mar) Operons in Escherichia coli

**Carol Moreno**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Cindy Malone  
**Title of Presentation:** Analyzing the Transcription Factor Binding Sites of FOXR1 Promoter Region
Brenda Jauregui
Graduate
Department of Health Sciences
Faculty Mentor: Claudia Toledo-Corral
Title of Presentation: Examining Differences in Allostatic Load across Sociodemographic Factors among Adolescents from Minoritized Communities with Overweight or Obesity

Jessica Martinez
Graduate
Department of Health Sciences
Faculty Mentor: Claudia Toledo Corral
Title of Presentation: The association between stressful life events and blood cholesterol levels in adolescents from minoritized communities.

Michael Shaw
Graduate
Department of Chemistry and Biochemistry
Faculty Mentor: Michael Eller
Title of Presentation: Determination of Relative Protein Abundancies in Isolated EVs with Attomolar Sensitivity

Edwin Ortiz
Graduate
Department of Biology
Faculty Mentor: Melissa Takahashi
Title of Presentation: Disruption of an Escherichia coli small RNA Regulator Involved in Antibiotic Resistance

Aaron Stibelman
Graduate
Department of Biology
Faculty Mentor: Melissa Takahashi
Title of Presentation: Exploring the regulatory plasticity of the MicF sRNA through the characterization of computationally predicted mRNA targets
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Colleges of Arts, Media, and Communication & Social and Behavioral Sciences
Graduate, Completed Stage

Isabel Muñoz
Graduate
Department of Psychology
Faculty Mentor: Jill Razani
Title of Presentation: Activities of Daily Living Impairments in Dementia Subgroups

Sofía Ramos Sanchez
Graduate
Department of Social Work
Faculty Mentor: Judith DeBonis
Title of Presentation: Wellness & Environment for Life and Learning: A Grant Proposal

Alondra Rodríguez Noriega
Graduate
Department of Geography
Faculty Mentor: Edward Jackiewicz
Title of Presentation: In Search of Opportunity and Community in the Amenity-Rich, Rural West: Examining the Growing Latino Population in Deschutes County, Oregon

Joseluz Sosa
Graduate
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Faculty Mentor: Stefanie Drew
Title of Presentation: From stigma to advocacy: transfer students with disabilities and their stories

Noa Vinshtok
Graduate
Music Industry Admin
Faculty Mentor: Andrew Surmani
Title of Presentation: Music Industry Administration
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Graduate
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Kristen Howard
Graduate
Department of Biology
Faculty Mentor: Casey terHorst
Title of Presentation: The Effects of Temperature on Protozoan Facilitation and Competition in Purple Pitcher Plants.

Nicholas Porcellino
Graduate
Department of Chemistry and Biochemistry
Faculty Mentor: Joseph Teprovich
Title of Presentation: Synthesis and characterization of lanthanum series metal nano particles

Scott Jedrusiak
Graduate
Department of Geological Science
Faculty Mentor: Priya Ganguli
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Jonathan Bixler
Graduate
Department of Geological Science
Faculty Mentor: Joshua Schwartz
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Riley Jones
Graduate
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Faculty Mentor: Mark Steele
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Kimberly Kagan
Graduate
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Faculty Mentor: Yoshie Hanzawa
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Hannah Merges
Graduate
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Lipi Kalpesh Patel and FNU Shaurya
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Faculty Mentor: Chhandak Basu
Title of Presentation: Halobacterium as a model to study environmental stress

Caroline Solis
Graduate
Department of Biology
Faculty Mentor: Eduardo Amorim
Title of Presentation: Lost and Found: The Impact of Colonization on South American Indigenous Populations' Genetics

Alitzel Villanueva
Graduate
Department of Biology
Faculty Mentor: Mark Steele
Title of Presentation: Effects of water column stratification on kelp forest persistence & their communities on Catalina Island
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Poster Group 12
Colleges of Engineering and Computer Science, Health and Human Development & Science and Mathematics
Undergraduate, Completed Stage

Nathan Gabriel
Undergraduate
Department of Mechanical Engineering
Faculty Mentor: Tadeh Zirakian
Title of Presentation: Structural Analysis on an FDM 3D printed model based on Infill Percentage and Wall Thickness

Zakariah Robinson
Undergraduate
Department of Health Sciences
Faculty Mentor: Kacie Blackman
Title of Presentation: The Examination of Stress Markers Among Non-Clinical Birth Workers Residing in the Southern California Region

Riley Stanford
Undergraduate
Department of Kinesiology
Faculty Mentor: Sean Flanagan
Title of Presentation: Postural Adjustments Due to Increased Load During a Simulated Barbell Squat

Nathan Kayanirad and Ghazal Sazegar
Undergraduate
Department of Kinesiology
Faculty Mentor: Sean Flanagan
Title of Presentation: Force-Velocity Profiles During Lower Extremity Extensions

Aislinn McCann
Undergraduate
Department of Physics and Astronomy
Faculty Mentor: Ana Cadavid
Title of Presentation: Periodicities of Recurrent Sunspots and the Implications of their Anchoring Depths

Anita Shayegh Boroujeni
Undergraduate
Department of Biology
Faculty Mentor: Ravinder Abrol
Title of Presentation: Effects of F139A mutation on the activation dynamics of Beta2 adrenergic receptor
Ellisa McKissic and Darius Banks  
Undergraduate  
Department of Cinema and Television Arts  
**Faculty Mentor:** Cedric Hackett  
**Title of Presentation:** You Tarzan, Me Ape...? Dehumanization of the Black Male; From Human Zoos to Modern Day Spectacle

Chelsea Coughlin  
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Department of Psychology  
**Faculty Mentor:** Cedric Hackett  
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Department of Psychology  
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Justin Jackson-No Longer Presenting  
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Jared Carrillo
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Department of Mechanical Engineering
Faculty Mentor: Thomas Chan
Title of Presentation: Holographic Engagement Coordination Assistant to Executive-functioning

Venkata Sai Sankalp Pala
Undergraduate
Department of Manufacturing Systems Engineering and Management
Faculty Mentors: David Boyns and Yohannes Shiferaw
Title of Presentation: Project EXTonArmz

Yoselin De Leon-Lazo and Cristina Carrera
Undergraduate
Department of Child and Adolescent Development
Faculty Mentor: Rika Meyer
Title of Presentation: Mother-Child Relationships and Attachment: An examination of the broken ties amongst migrant Latina mothers and their first-generation children

Carlos Couzin and Celeste Dels Llana
Undergraduate
Department of Psychology
Faculty Mentor: Stefanie Drew
Title of Presentation: Present or Not? An Examination of Social Presence in Virtual Reality
Mimi Truong  
Undergraduate  
Department of Physics and Astronomy  
**Faculty Mentor:** Anna Bezryadina  
**Title of Presentation:** Optical studies of ocean microplastics by using optical tweezers

Sara Honardoost  
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Department of Biology  
**Faculty Mentor:** Ray Hong  
**Title of Presentation:** Uncovering the Link Between Dauer Formation and Chemosensation in Pristionchus pacificus

Oscar Juvera  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Sampriti Mukherjee  
**Title of Presentation:** Caenorhabditis elegans as a Model for Host-Pathogen Interactions

Amy Sariles and Nikita Opel  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Melissa Takahashi  
**Title of Presentation:** Developing a Genetic Circuit to Detect the small RNA MicF
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Belle Ponce de Leon, Naira Marootian, Thomas (Rex) Ruswick, Rudy Lua, Gwen Retzinger, Borna Golberg and Makena Savola
Graduate
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Faculty Mentor: Jacob Hinkel-Lipkser
Title of Presentation: Hip Hop Dance Analysis: Using Biomechanics to predict judges scores

Makena Savola, Borna Golberg, Amanda Duben, Kyle Dang, Shawna Kasabov and Rudy Lua
Graduate
Department of Kinesiology
Faculty Mentor: Jacob Hinkel-Lipkser
Title of Presentation: Make Reading Exciting: Impacts of Virtual Reality on Standing Balance and Control

Jose Diaz
Graduate
Department of Kinesiology
Faculty Mentor: Sean Flanagan
Title of Presentation: Changes in Torque Due to Increased Load During a Simulated Barbell Squat Exercise

Matt Wallace
Graduate
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Faculty Mentor: Jonathan Kelber
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Jessica Hunter
Graduate
Department of Biology
Faculty Mentor: Gilberto Flores
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Ludwig Ompad
Graduate
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Faculty Mentor: Moshoula Capous-Desyllas
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Julia Salcedo, Katie Adaya-Villa, Angel Morales and Karen Ticas
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DeVerre Vidamuerte
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Coral Florian
Graduate
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Title of Presentation: Developing a Messaging Evaluation Tool: A Collaboration with Fire and Burn Prevention Experts
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Jamey Annette Fitzpatrick, Anna Simonian, Rosemarie Haiyan Girón, Gillian Amber Vista, Ameera Tariq, and Ai-vy Cam Thi Pham
Graduate
Department of Communication Disorders and Sciences
**Faculty Mentor:** Vickie Yu
**Title of Presentation:** Finding the Invisible - Brain Fog's Footprints in Young Adults

**Sharona Schnall**
Graduate
Department of Health Sciences
**Faculty Mentor:** Sean Jefferson
**Title of Presentation:** Mental Health Impacts Women's Obesity Rates

Alejandra Bermudez Torres and Kylie Pimental
Graduate
Department of Psychology
**Faculty Mentor:** Omar Ruvalcaba
**Title of Presentation:** Examining Help-Seeking Behaviors and Persistence among Undergraduate Women in STEM

**Jongmin Lee and Brenda Meza**
Graduate
Department of Kinesiology
**Faculty Mentor:** Taeyou Jung
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Brooke Walter-Lakes and Czarlyn Camba
Graduate
Department of Physics and Astronomy
**Faculty Mentor:** Anna Bezyadina Preece
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Lexi Atler
Graduate
Department of Biology
**Faculty Mentor:** Casey terHorst
**Title of Presentation:** Can nitrogen-fixing bacteria facilitate invasion success?

Rachel Gutner
Graduate
Department of Biology
**Faculty Mentor:** Jeanne Robertson
**Title of Presentation:** Using genomics to evaluate microevolutionary processes of a near-shore island endemic

Marisa Mackie
Graduate
Department of Biology
**Faculty Mentor:** Ray Hong
**Title of Presentation:** Investigation of Real-Time Sensory Neuron Responses to Odors in the Nematode Pristionchus pacificus

Cindy Fajardo
Graduate
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**Faculty Mentor:** Nyssa Silbiger
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Ricardo Gibert
Graduate
Department of Biology
**Faculty Mentor:** Robert Espinoza
**Title of Presentation:** Does Competition Explain the Absence of Mediterranean House Geckos in Southern Florida?
Acknowledgements

College Liaisons

Dr. Stefanie Drew, Department of Psychology
Dr. Jennifer Lee, Department of English
Dr. Elizabeth Sussman-Dabach, Department of Family & Consumer Sciences
Dr. Robert Espinoza, Department of Biology
Dr. Vidya Nandikolla, Department of Mechanical Engineering

With Special Thanks to the following people:
Dr. Amy Levin, Assistant Vice President, Graduate Studies
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Gloria Rocklin, Administrative Analyst
Naty Palos, Administrative Coordinator
Kia Brown, Administrative Coordinator
Joselyn Zuniga, Graduate Studies Student Assistant
Rosemarie Giron, Graduate Studies Student Assistant
Madhurima Pal, Graduate Studies Student Assistant

Visual Images by Intersect LA
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