27th ANNUAL RESEARCH & CREATIVE WORKS SYMPOSIUM

CSUN POSTER

A STUDENT SHOWCASE

Winner's List
3-Minute Oral Presentations, Sessions 1-9

Session 1, Undergraduate Students  
*College of Engineering and Computer Science*  
8:30 AM - 9:06 AM, Completed Stage

1st Place  
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

Session 2, Undergraduate Students  
*College of Science and Mathematics*  
8:30 AM - 9:06 AM, Completed Stage

1st Place  
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

Session 3, Undergraduate Students  
*Colleges of Science and Mathematics & Social and Behavioral Sciences*  
8:30 AM - 9:06 AM, Completed Stage

1st Place  
9:00 AM  
**Maya Zarafshan**  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Cindy Malone  
**Title of Presentation:** Nucleolin
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

1st Place 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

2nd Place  
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

Session 5, Graduate Students  
*Colleges of Arts, Media, and Communication, Education, Humanities & Social and Behavioral Sciences*  

9:30 AM - 10:06 AM, Completed Stage

1st Placer  
9:36 AM  
Melora Garcia  
Graduate  
Department of Art  
**Faculty Mentor:** Christian Tedeschi  
**Title of Presentation:** Collections as Identity
Session 6, Graduate Students
College of Social and Behavioral Sciences
9:30 AM - 10:18 AM, Completed Stage

1st Place
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

2nd Place
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

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

1st Place
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)
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

1st Place  
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

Second Place  
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

Session 9, Graduate Students  
*Colleges of Health and Human Development and Social and Behavioral Sciences*  
10:30 AM - 11:12 AM, Preliminary/Proposal Stage

10:36 AM  
1st Place  
**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?

Second Place  
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?
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

1st Place
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

2nd Place
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

Session 2-Graduate Students
College of Science and Mathematics
8:30 AM - 11:20 AM, Completed Stage

1st Place
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
2nd Place
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

Session 3-Graduate Students
College of Science and Mathematics
8:30 AM - 11:00 AM, Completed Stage

1st Place
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

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

1st Place
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

2nd Place
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
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

1st Place
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

Session 6-Graduate Students
*Colleges of Engineering and Computer Science & Health and Human Development*
8:30 AM - 10:30 AM, Completed Stage

1st Place
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

Session 7-Graduate Students
*Colleges of Arts, Media, and Communication, Education & Humanities*
8:30 AM - 10:30 AM, Completed Stage

1st Place
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"
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

1st Place
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.

2nd Place
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

Session 9-Undergraduate Students
*College of Science and Mathematics*
8:30 AM - 11:00 AM, Completed Stage

1st Place
9:10 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

2nd Place
8:50 AM
Arthur Berberyan
Undergraduate
Department of Physics and Astronomy
**Faculty Mentor:** Damian Christian
**Title of Presentation:** A Search for Magnetic Bright Points
Session 10-Undergraduate Students  
*Colleges of Arts, Media, and Communication, Engineering and Computer Science, Health and Human Development & Social and Behavioral Sciences*  
8:30 AM - 11:20 AM, Preliminary/Proposal Stage

1st Place  
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

2nd Place  
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

Session 11-Graduate Students  
*College of Social and Behavioral Sciences*  
12:30 PM - 2:30 PM, Completed Stage

1st Place  
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
Session 12-Graduate Students  
*College of Social and Behavioral Sciences*  
12:30 PM - 2:30 PM, Completed Stage

1st Place  
12:30 PM  
Chach Hernandez  
Graduate  
Department of Social Work  
**Faculty Mentors:** Jeanna Jacobsen  
**Title of Presentation:** Medical Social Workers and Socially Just Practices

Session 13-Undergraduate Students  
*College of Science and Mathematics*  
12:30 PM - 2:10 PM, Preliminary/Proposal Stage

1st Place  
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

Session 14-Undergraduate Students  
*College of Science and Mathematics*  
12:30 PM - 2:30 PM, Preliminary/Proposal Stage

1st Place  
2:10 PM  
Audrey Todd  
Undergraduate  
Department of Biology  
**Faculty Mentor:** Jonathan Kelber  
**Title of Presentation:** Molecular Analyses of Multicellular Pancreatic Cancer Spheroids
Session 15-Graduate Students
College of Science and Mathematics
12:30 PM - 2:30 PM, Preliminary/Proposal Stage

1st Place
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

Session 16-Graduate Students
College of Science and Mathematics
12:30 PM - 2:10 PM, Preliminary/Proposal Stage

1st Place
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

Session 17-Graduate Students
Colleges of Engineering and Computer Science & Health and Human Development
12:30 PM - 3:00 PM, Preliminary/Proposal Stage

1st Place
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
2nd Place
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

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

1st Place
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?

10-Minute Oral Presentation Session 19-Graduate Students
College of Social and Behavioral Sciences
12:30 PM - 2:10 PM, Preliminary/Proposal Stage

1st Place
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
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*

1st Place
Maya Bocanegra
Undergraduate
Department of Mathematics
**Faculty Mentor:** Norma Ortiz-Robinson
**Title of Presentation:** Optimal Control Applied to Wolf and Moose Population Dynamics

Poster Group 2
*College of Science and Mathematics*
*Undergraduate, Completed Stage*

1st Place
Luke Tomaneng
Undergraduate
Department of Biology
**Faculty Mentor:** Jonathan Kelber
**Title of Presentation:** Retinoic Acid Induced 14 Drives Pancreatic Cancer Cell Proliferation and Survival

2nd Place
Donnie Ca
Undergraduate
Department of Chemistry and Biochemistry
**Faculty Mentor:** Thomas Minehan
**Title of Presentation:** DNA Major Groove Binding of Synthetic Trimethylmethane Derivatives
Poster Group 3  
*Colleges of Health and Human Development & Social and Behavioral Sciences*  
*Undergraduate, Completed Stage*

1st Place  
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

Poster Group 4  
*College of Social and Behavioral Sciences*  
*Undergraduate, Completed Stage*

1st Place  
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

Poster Group 5  
*Colleges of Health and Human Development & Social and Behavioral Sciences*  
*Undergraduate, Preliminary/Proposal Stage*

1st Place  
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
Poster Group 6  
*College of Science and Mathematics*  
Undergraduate, Preliminary/Proposal Stage

1st Place  
**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

Poster Group 7  
*Colleges of Health and Human Development & Science and Mathematics*  
Graduate, Completed Stage

1st Place  
**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

Poster Group 8  
*Colleges of Arts, Media, and Communication & Social and Behavioral Sciences*  
Graduate, Completed Stage

1st Place  
**Isabel Muñoz**  
Graduate  
Department of Psychology  
**Faculty Mentor:** Jill Razani  
**Title of Presentation:** Activities of Daily Living Impairments in Dementia Subgroups
Poster Group 9  
*Colleges of Health and Human Development & Social and Behavioral Sciences*  
Graduate, Preliminary/Proposal Stage

1st Place  
Jasia-Jemay Henderson-Murphy  
Graduate  
Department of Psychology  
**Faculty Mentor:** Alyssa Arentoft  
**Title of Presentation:** Healthcare Quality, Race, and Neuropsychological Functioning in Black/African American Individuals with HIV

Poster Group 10  
*College of Science and Mathematics*  
Graduate, Preliminary/Proposal Stage

1st Place  
Jonathan Bixler  
Graduate  
Department of Geological Science  
**Faculty Mentor:** Joshua Schwartz  
**Title of Presentation:** Constraining the Timing of the Formation of the Alamo Mountain and Piru Creek Shear Zones Using U-Pb Zircon Geochronology: What Can Shear Zones Tell Us About Late Cretaceous Tectonics in Southern California?

Poster Group 11  
*College of Science and Mathematics*  
Graduate, Preliminary/Proposal Stage

1st Place  
Riley Jones  
Graduate  
Department of Biology  
**Faculty Mentor:** Mark Steele  
**Title of Presentation:** Evaluating the impacts of noise pollution on a marine fish, the Garibaldi (Hypsypops rubicundus)
Afternoon Poster Session, Groups 12-19  
1:00 PM - 2:30 PM

Poster Group 12  
*Colleges of Engineering and Computer Science, Health and Human Development & Science and Mathematics*  
Undergraduate, Completed Stage

1st Place  
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

1st Place  
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

Poster Group 13  
*Colleges of Arts, Media, and Communication & Social and Behavioral Sciences*  
Undergraduate, Completed Stage

1st Place  
Alexsia Lucy Ishkhanian  
Undergraduate  
Department of Psychology  
Faculty Mentor: Jill Razani  
**Title of Presentation:** Acculturation Affects Neuropsychological Performance in Immigrant Bilinguals from the Former Soviet Union
Poster Group 14
College of Engineering and Computer Science, Health and Human Development & Social and Behavioral Sciences
Undergraduate, Preliminary/Proposal Stage

1st Place
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

Poster Group 15
College of Science and Mathematics
Undergraduate, Preliminary/Proposal Stage

1st Place
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

Poster Group 16
Colleges of Health and Human Development & Science and Mathematics
Graduate, Completed Stage

1st Place
Makena Savola, Borna Golbarg, Amanda Duben, Kyle Dang, Shawna Kasabov and Rudy Lua
Graduate
Department of Kinesiology
Faculty Mentor: Jacob Hinkel-Lipsker
Title of Presentation: Make Reading Exciting: Impacts of Virtual Reality on Standing Balance and Control
Poster Group 17
College of Social and Behavioral Sciences
Graduate, Completed Stage

1st Place
DeVerre Vidamuerte
Graduate
Department of Psychology
Faculty Mentors: Stefanie Drew and Andrew Ainsworth
Title of Presentation: Enlightening Technology: The Effectiveness of Instructional Online Media

Poster Group 18
Colleges of Health and Human Development & Social and Behavioral Sciences
Graduate, Preliminary/Proposal Stage

1st Place
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

Poster Group 19
College of Science and Mathematics
Graduate, Preliminary/Proposal Stage

1st Place
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
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RESEARCH AND SPONSORED PROGRAMS