23rd ANNUAL RESEARCH & CREATIVE WORKS SYMPOSIUM

CSUN POSIUM

A STUDENT SHOWCASE

WINNERS' LIST
3-Minute Oral Presentation Session 1-4 WINNERS

Session 1, Undergraduate Students

FIRST PLACE
Michela Pacifici
Undergraduate, Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Abstract Title: Wind Tunnel Testing of Two New Morphing Wing Designs

SECOND PLACE
Federico Prokopczuk
Undergraduate, Department of Biology
Faculty Mentor: Sattar Taheri
Abstract Title: Investigating Intracellular Functions of Antimicrobial Peptides Using An Internal Gene Expression System

Session 2, Graduate Students

FIRST PLACE
Anita Ebadi
Graduate, Department of Linguistics
Faculty Mentor: Christina Scholten
Abstract Title: Native and Non-native Speakers’ Perceptions of Gendered Language

FIRST PLACE
Taylor Doty
Graduate, Department of Psychology
Faculty Mentor: Dr. Stefanie Drew
Abstract Title: Synesthesia and Creativity in Writing Tasks

Session 3, Graduate Students

FIRST PLACE
Lluis Miquel Gonzalez Sola
Graduate, Department of Tourism, Hospitality and Recreation Management
Faculty Mentor: Jimmy Xie
Abstract Title: Key Factors That Can Make a Microstate an Attractive Destination for American Tourists: The Case of Andorra

SECOND PLACE
Andrea Lanter
Graduate, Department of Educational Psychology and Counseling
Faculty Mentor: Shyrea Minton
Abstract Title: Small Group Curriculum for Improving Mental Health in High-Achieving Student Populations

Session 4, Undergraduate Students

FIRST PLACE
Harrison Handel
Undergraduate, Department of Finance, Financial Planning, and Insurance
Faculty Mentor: Nanci Carr
Abstract Title: Cash, Card or Chip? Human Microchipping in the Workplace and Beyond

SECOND PLACE
Angelica Leon
Undergraduate, Department of Finance, Financial Planning, and Insurance
Faculty Mentor: Inga Chira
Abstract Title: AN EXPLORATION OF TWO CAREER PATHS: INSURANCE AND ACCOUNTING
10-Minute Oral Presentation SESSION 1-23 WINNERS

Session 1, Colleges of Arts, Media and Communication, Humanities and Social & Behavioral Science

FIRST PLACE
Alison Riley-Knight
Graduate, Department of Linguistics
Faculty Mentor: Laura Hirrel
Abstract Title: Women can’t be surgeons!

SECOND PLACE
Heather Anderson
Graduate, Department of Sociology
Faculty Mentor: Moshoula Capous-Desyllas
Abstract Title: Incarcerated Heroes and Their Return Home: A phenomenological Study Into the Reentry Experience of Female Inmate Firefighters as They Transition out of California’s Conservation Camp Program

Session 2, Colleges of Arts, Media and Communication, and Social and Behavioral Sciences

FIRST PLACE
Anastasia Crittenton
Graduate, Department of Journalism
Faculty Mentor: Stephanie Bluestein
Abstract Title: Watch the Queen Conquer: Intersectionality and the Interrogation of Power in Teen Vogue Social Media Coverage

SECOND PLACE
Cassidy Butow
Graduate, Department of Sociology
Faculty Mentor: David Boyns
Abstract Title: The Impact of Predatory Lending on the Homeless Population

Session 3, Colleges of Health and Human Development, and Social and Behavioral Sciences

FIRST PLACE
Cklara Moradian
Graduate, Department of Social Work
Faculty Mentor: Susan M Love
Abstract Title: Lip-Service or Tangible Change? Homeless Youth Act of 2018; An Intersectionality-Based Policy Analysis

SECOND PLACE
Richard Baker
Graduate, Department of Social Work
Faculty Mentor: Allen Lipscomb
Abstract Title: Adultism in Latino Male Youth Experiences of School Discipline

Session 4, Colleges of Engineering and Computer Science and Health and Human Development

FIRST PLACE
Kevin Vartanian, David Pucio and Arshak Amirbekyan
Undergraduate, Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Abstract Title: Development of a New Light-Weight Low-Cost Prosthetic Hand

SECOND PLACE
Matthew Brown
Undergraduate, Department of Mechanical Engineering
Faculty Mentor: Christoph Schaal
Abstract Title: Visualization and Experimental Investigation of the Scattering of High-Intensity Focused Ultrasound Waves at Bone Tissue
Session 5, Colleges of Engineering and Computer Science, Science and Math and Social and Behavioral Sciences

**FIRST PLACE**  
Diana Blanco Hernandez  
Undergraduate, Department of Physics and Astronomy  
Faculty Mentor: Luca Ricci  
**Abstract Title:** Imaging Substructures in Protoplanetary Disks with the ngVLA Using Computational Methods

**SECOND PLACE**  
Jennifer Portillo  
Undergraduate, Department of Chemistry and Biochemistry  
Faculty Mentor: Ravinder Abrol  
**Abstract Title:** Understanding G Protein Selectivity of Dopamine Receptors

Session 6, College of Science and Math

**FIRST PLACE**  
Benjamin Chubak  
Graduate, Department of Biology  
Faculty Mentor: Mark Steele  
**Abstract Title:** Evaluating the Importance of Reef-Based Resources for Reproduction in a Temperate Reef Fish

**SECOND PLACE**  
Cameron Geller  
Graduate, Department of Biology  
Faculty Mentor: Jonathan Kelber  
**Abstract Title:** eIF5A1/2 Activity as a Regulator of SLC3A2-Dependent Heterogeneity and Metastasis in Breast Cancer

Session 7, College of Science and Math

**FIRST PLACE**  
Kristine Romich  
Graduate, Department of Physics and Astronomy  
Faculty Mentor: Ana Cristina Cadavid  
**Abstract Title:** Intensity Fluctuations in Coronal Holes, Boundaries, and Adjacent Quiet-Sun Regions

**SECOND PLACE**  
Michael Barton  
Graduate, Department of Physics and Astronomy  
Faculty Mentor: Tyler Luchko  
**Abstract Title:** Calculating the Electrostatic Contribution of Tubulin Isotypes to the Stability of Microtubule Structures

**SECOND PLACE**  
Yoel Lencina Wendt  
Graduate, Department of Physics and Astronomy  
Faculty Mentor: Miroslav Peric  
**Abstract Title:** An EPR study of Paramagnetic Ionic Liquids

Session 8, College of Science and Math

**FIRST PLACE**  
Shehrazad Belas and Esther Navarro  
Undergraduate, Department of Biology  
Faculty Mentor: Cheryl Van Buskirk  
**Abstract Title:** NPR-1 Overrides Stress Induced Sleep in Caenorhabditis Elegans Cells

**SECOND PLACE**  
Janine Cisneros Desir and Marlon Johnson  
Undergraduate, Department of Biology  
Faculty Mentor: Cheryl Van Buskirk  
**Abstract Title:** csn18, The Characterization of a Novel Sleep Gene
SECOND PLACE
Jessica Yamauchi
Undergraduate, Department of Biology
Faculty Mentor: Robert Espinoza
Abstract Title: How Goes Ontogeny Affect Changes in the Gut Microbiome of the American Bullfrog

Session 9, College of Science and Math

FIRST PLACE
Emma Collosi
Graduate, Department of Biology
Faculty Mentor: Jeanne Robertson
Abstract Title: Evolutionary Conflict and Cryptic Coloration in Field Crickets
SECOND PLACE
Rachel Larson
Graduate, Department of Biology
Faculty Mentor: Tim Karels
Abstract Title: Urbanization and its Effects on Resource Use in Coyotes in Southern California

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Rachel Larson
Graduate, Department of Biology
Faculty Mentor: Tim Karels
Abstract Title: Urbanization and its Effects on Resource Use in Coyotes in Southern California

Session 10, Colleges of Arts, Media and Communication, Humanities and Social and Behavioral Sciences

FIRST PLACE
Bryant Martinez
Undergraduate, Department of English
Faculty Mentor: Heidi Schumacher
Abstract Title: YA in Today’s Classrooms
SECOND PLACE
Danielle Snali
Undergraduate, Department of Religious Studies
Faculty Mentor: Heidi Schumacher
Abstract Title: Power, Marriage, and Authority: A Historical Analysis of Paul of Tarsus’ View on Women in First-Century Mediterranean Society

Session 11, College of Social and Behavioral Sciences

FIRST PLACE
Robert Montgomery
Graduate, Department of Psychology
Faculty Mentor: Abraham Rutchick
Abstract Title: Folk Theories of Smartphones: Implications of Relationships with Personal Mobile Technology
SECOND PLACE
Mineh Sahakian
Graduate, Department of Psychology
Faculty Mentor: Elise Fenn
Abstract Title: Examining Interviewers’ Credibility Detection based on Displayed Level of Empathy

Session 12, College of Engineering and Computer Science

FIRST PLACE
Lakin Welch and Brice Ruder
Undergraduate, Department of Mechanical Engineering
Faculty Mentor: Peter Bishay
Abstract Title: Matamorph 1: A New Experimental UAV With Span-Morphing Wing and Camber-Morphing Tail
Session 13, College of Engineering and Computer Science

FIRST PLACE
David Sanford
Graduate, Department of Mechanical Engineering
Faculty Mentor: Christoph Schaal
Abstract Title: Obstructed High Intensity Focused Ultrasound: Hydrophone and Thermocouple Measurements of Developed Focal Regions

Session 14, Colleges of Arts, Media and Communication, and Humanities

FIRST PLACE
Thaddeus Nagey
Graduate, Department of Theatre
Faculty Mentor: Ah-Jeong Kim
Abstract Title: Straw Buried Fields, Forever: Theatre for Social Change

Session 15, Colleges of Humanities and Social and Behavioral Sciences

FIRST PLACE
Lyrianne Gonzalez
Undergraduate, Department of Chicano/a Studies
Faculty Mentor: Melisa Galvan
Abstract Title: Children of Braceros: Familial Ties, Education, and Political Activism, 1942-2018

Session 16, Colleges of Arts, Media and Communications, Business and Economics, and Social and Behavioral Sciences

FIRST PLACE
Daniel Saravia, Natasha Feldman and Matthew Leitao
Undergraduate, Department of Psychology
Faculty Mentor: Bradley McAuliff
Abstract Title: Out of the Mouths of Babes: The Effect of Refreshed Recollections on Children's Reports During Interviews

Session 17, College of Humanities

FIRST PLACE
Maseri Kisa Schultz
Graduate, Department of English
Faculty Mentor: Jackie Stallcup
Abstract Title: The Little Dragonologist: Getting Lost in Children’s Fiction
Session 18, College of Science and Math
FIRST PLACE
Erik Hearn
Graduate, Department of Biology
Faculty Mentor: Gilberto Flores
Abstract Title: Bile Salt Stress Response by Human Symbiont Akkermansia Muciniphila

Session 19, Colleges of Engineering and Computer Science, Science and Math, and Social and Behavioral Sciences

FIRST PLACE
Jennifer Kampe
Graduate, Department of Mathematics
Faculty Mentor: Huan Qin
Abstract Title: Predicting Zeros of the Riemann Zeta Function Using Machine Learning

Session 20, College of Science and Math
FIRST PLACE
Jonathan Salazar
Graduate, Department of Biology
Faculty Mentor: Cindy Malone
Abstract Title: Characterizing the Putative Promoter Region of RBPJ

FIRST PLACE
Paramin Sangthongkam
Graduate, Department of Biology
Faculty Mentor: Ray Hong
Abstract Title: Key Genes Governing Odor-Mediated Paralysis in a Nematode Shares a Pathway with an Ancient Nematocide

Session 21, Colleges of Health and Human Development and Social and Behavioral Sciences

FIRST PLACE
Nina Heumann and Theodore Mitchell
Graduate, Department of Family and Consumer Sciences
Faculty Mentor: Nelida Duran
Abstract Title: Glucose-6-Phosphate Dehydrogenase Deficiency: Time for Universal Screening

Session 22, College of Health and Human Development
FIRST PLACE
Isabel Lorimer
Graduate, Department of Kinesiology
Faculty Mentor: Taeyou Jung
Abstract Title: Comparison of Immediate Balance Outcomes Following Four Locomotor Training Modes in Individuals with Parkinson’s Disease

Session 23, College of Science and Math
FIRST PLACE
Jimmy Guzman
Graduate, Department of Chemistry and Biochemistry
Faculty Mentor: Paula Fischhaber
Abstract Title: Sequence Dependence on Preference of DNA Repair Pathway in Saccharomyces cerevisiae
Morning Poster Winners

FIRST PLACE S&M
Stephanie Alvarado and Katherinne Diaz
Graduate, Department of Biology
Faculty Mentor: Melissa Takahashi
Abstract Title: Improving toehold switch sensitivity to detect MicF expression changes during antibiotic treatment

FIRST PLACE S&M
Rafeef Khleif
Undergraduate, Department of Biology
Faculty Mentor: Michael Summers
Abstract Title: Mutation and knockdown of genes in Nostoc punctiforme using Cpf1-based CRISPR plasmids

FIRST PLACE S&BS
Jasmin Rodriguez and Omar Contreras
Graduate, Department of Social Work Faculty Mentor: Susan Love
Abstract Title: SAP Roll Out on CSUN Campus

FIRST PLACE S&BS
Alana Parks
Undergraduate, Department of Psychology
Faculty Mentor: Justin Kantner
Abstract Title: Classification and Representation of Biracial Individuals

FIRST PLACE HHD
Mujtaba Kazem
Undergraduate, Department of Communication Disorders and Sciences
Faculty Mentor: Vickie Yu
Abstract Title: English Vowel Productions of Afghan Learners of English

FIRST PLACE ENG
Hasan Ukra, Anna Gavalyan, Danah Abdulkareem and Ali Almutairi
Undergraduate, Department of Civil Engineering and Construction Management technology
Faculty Mentor: David Boyajian
Abstract Title: Mechanism of Orifice Water Flow

SECOND PLACE ENG
Cristina Rubio, Abrar Almashmom and Batool Alrasheed
Undergraduate, Department of Civil Engineering and Construction Management technology
Faculty Mentor: David Boyajian
Abstract Title: Rate Estimation of Water (Free) Jets

FIRST PLACE AMC
Binuri Fonseka
Undergraduate, Department of Business Law
Faculty Mentor: Hilary Silvia-Goldberg
Abstract Title: Sexual Harassment in the Workplace: Examining Severe & Pervasive
**Afternoon Poster Winners**

**FIRST PLACE S&BS**
Britany Beauchesne, Alexandra Go, Zak Peet, Nick Lindgren, Kristina Kalamkeryan, and Jacqueline Balderas  
Graduate, Department of Psychology  
Faculty Mentor: Stephanie Hood  
*Abstract Title:* Descriptive Assessment of Social Skills across Conversational Contexts

**FIRST PLACE S&BS**
Indira Martinez-Dubon  
Undergraduate, Department of Psychology  
Faculty Mentor: Scott Plunkett  
*Abstract Title:* Father and Adolescents Reports of Fathers Parenting Related to Adolescents Depression, Aggression, and Delinquency in Latino Families

**FIRST PLACE HHD**
Yu Lang  
Graduate, Department of Communication Disorders and Sciences  
Faculty Mentor: Vickie Yu  
*Abstract Title:* Influence of Mandarin on perception and production of American English

**FIRST PLACE HHD**
Mai Spaulding  
Undergraduate, Department of Family and Consumer Sciences  
Faculty Mentor: Jheem Medh  
*Abstract Title:* The Effect of Bitter Melon (Momordica Charantia) on the Regulation of Cholesterol Biosynthesis in Liver Cells

**SECOND PLACE S&M**
Leslie Rivas Quijano  
Undergraduate, Department of Biology  
Faculty Mentor: Jeanne Robertson  
*Abstract Title:* Courtship behavior in two parapatrically distributed field cricket species and its role in reproductive isolation

**FIRST PLACE AMC**
Selina Salazar  
Graduate, Department of Art  
Faculty Mentor: Patsy Cox  
*Abstract Title:* Descendencia

**FIRST PLACE ENG**
Natalie Souaid  
Undergraduate, Department of Computer Science  
Faculty Mentor: Bruce Shapiro  
*Abstract Title:* Using Machine Learning Techniques to Study and Process X-Ray Images: Locating Pneumonia in Lungs

**First Place S&M**
Janelle Talavera  
Undergraduate, Department of Biology  
Faculty Mentor: Casey terHorst  
*Abstract Title:* Bacterial isolate effects on protozoan fitness within the purple pitcher plant, Sarracenia purpurea

**FIRST PLACE ENG**  
Thomas Parashos  
Undergraduate, Department of Computer Science  
Faculty Mentor: Bruce Shapiro  
*Abstract Title:* An analysis of neural network pruning
FIRST PLACE
Isabel Lorimer
Graduate Student, Kinesiology
Faculty Mentor: Taeyou Jung
Abstract Title: Comparison of Immediate Balance Outcomes Following Four Locomotor Training Modes in Individuals with Parkinson’s Disease

SECOND PLACE
Shely Salemnia
Graduate Student, Family and Consumer Sciences, Human Nutrition
Faculty Mentor: Rosalia Garcia-Torres
Abstract Title: Red, White, and... Orange? A New Look into an Old Wine Style