

23rd ANNUAL RESEARCH &
CREATIVE WORKS SYMPOSIUM

CSUNPOSIUM

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: Adulthood 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 Isoforms 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

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's 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

Lyrienne 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

Jennifer Rodzianko

Graduate, Department of Family and

Consumer Sciences

Faculty Mentor: Nelida Duran

Abstract Title: The CSUN Pop-Up Pantry: A Year in Review

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 ENG

Thomas Parashos

Undergraduate, Department of Computer Science

Faculty Mentor: Bruce Shapiro

Abstract Title: An analysis of neural network pruning

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: Jeanne Robertson

Abstract Title: Courtship behavior in two parapatrically distributed field cricket species and its role in reproductive isolation

SECOND PLACE S&M

Leslie Rivas Quijano

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 AMC

Selina Salazar

Graduate, Department of Art Faculty
Mentor: Patsy Cox Abstract

Abstract Title: Descendencia

CAMINO THESIS TALKS

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

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