RESEARCH & CREATIVE WORKS SYMPOSIUM

CSUN POSIUM
A STUDENT SHOWCASE

APRIL 9, 2021
VIA ZOOM
8:00 AM - 3:00 PM

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
3-Minute Oral Presentations, Sessions 1-8

Session 1, Graduate Students
Colleges of Health and Human Development & Social and Behavioral Sciences
8:30 AM - 9:06 AM, Completed Stage

First Place Winner
• 9:00 AM
   Rosa Sanchez and Emma Reyes Calles
   Graduate, Department of Social Work
   Faculty Mentor: Judith DeBonis
   Title of Presentation: Policy Analysis: AB 12- California Fostering Connections to Success Act

Session 2, Graduate Students
Colleges of Humanities, Science and Mathematics & Social and Behavioral Sciences
8:30 AM - 9:00 AM, Preliminary/Proposal Stage

First Place Winner
• 8:36 AM
   Sean Farmer
   Graduate, Department of Biology
   Faculty Mentor: Robert Espinoza
   Title of Presentation: Does evaporative water loss limit the range of the paradoxically rare Common Garter Snake (Thamnophis sirtalis) in Southern California?

Session 3, Undergraduate Students
Colleges of Business and Economics, Engineering and Computer Science & Science and Mathematics
8:30 AM - 9:12 AM, Preliminary/Proposal Stage

First Place Winner
• 8:36 AM
   Nicole Bisente
   Undergraduate, Department of Biology
   Faculty Mentor: Robert Espinoza
   Title of Presentation: Adaptive morphological variation among invasive populations of the Mediterranean House Geckos in the USA

Second Place Winner
• 8:54 AM
   Calvin Lau
   Undergraduate, Department of Mechanical Engineering
   Faculty Mentor: Shadi Mahjoob
   Title of Presentation: FEA Analysis on the Colonist Delivery Aircraft Hook Mount
Session 4, Undergraduate Students  
Colleges of Science and Mathematics, Health and Human Development & Business and Economics  
9:30 AM - 10:00 AM, Preliminary/Proposal Stage

First Place Winner

• 9:42 AM
  Ayana Riley
  Undergraduate, Department of Child and Adolescent Development
  **Faculty Mentor:** Virginia Huynh  
  **Title of Presentation:** Children’s experiences of ethnic-racial identity, socialization, and discrimination in middle childhood and early adolescence

Session 5, Graduate Students  
Colleges of Health and Human Development, Social and Behavioral Sciences & Arts, Media, and Communication  
9:30 AM - 10:00 AM, Completed Stage

First Place Winner

• 9:42 AM
  Sally Hamilton and Erica Arias
  Graduate, Department of Social Work  
  **Faculty Mentor:** Judith Debonis  
  **Title of Presentation:** Anti Recidivism Coalition: An Effort to Develop Potential Grant Funding to Strengthen System-Impacted Women

Session 6, Undergraduate Students  
Colleges of Science and Mathematics & Health and Human Development  
9:30 AM - 10:12 AM, Preliminary/Proposal Stage

First Place Winner

• 9:30 AM
  Kirk Richard Dolar
  Undergraduate, Department of Biology  
  **Faculty Mentor:** Michael Vendrasco  
  **Title of Presentation:** The Effects of Heavy Metal Carcinogens From Exide Technologies in the Soil On Human Health and the Effectiveness of Phytoremediation Using SoCal Friendly Hyperaccumulators

Second Place Winner

• 9:54 AM
  Jeremiah Lyn Susas
  Undergraduate, Department of Biology  
  **Faculty Mentor:** Melissa Takahashi  
  **Title of Presentation:** Usage of Genelet Circuits to Study Antibiotic Resistance
Session 7, Undergraduate Students  
Colleges of Health and Human Development, Social and Behavioral Sciences  
& Engineering and Computer Science  
10:30 AM- 11:06 AM, Completed Stage  

First Place Winner  
- 10:42 AM  
Jeremy Morales  
Undergraduate, Department of Health Sciences  
Faculty Mentor: Claudia Toledo-Corral  
Title of Presentation: Examining the interrelationships between sleep, inflammation, and depressive symptoms among young adult, minority college students.

Session 8, Graduate Students  
Colleges of Health and Human Development, Science and Mathematics  
& Engineering and Computer Science  
10:30 AM - 10:54 AM, Completed Stage  

First Place Winner  
- 10:36 AM  
Florine Pascal  
Graduate, Department of Biology  
Faculty Mentor: Jeanne Robertson  
Title of Presentation: Characterizing Color Variation and Mate Choice in a Hybrid Population of Agalychnis callidryas
10-Minute Oral Presentations, Sessions 1-18

Session 1, Graduate Students
Colleges of Social and Behavioral Sciences & Science and Mathematics
8:30 AM - 10:25 AM, Completed Stage
Theme: Climate Change and Environmental Science

First Place
8:30 AM
Lillian Beaudoin
Graduate, Department of Social Work
Faculty Mentor: James Decker
Title of Presentation: Not Cool: The U.S. Government’s Unattainable Climate Disaster Preparedness Guidelines

Second Place Winner
9:15 AM
Benjamin Chubak
Graduate, Department of Biology
Faculty Mentor: Mark Steele
Title of Presentation: Evaluating the Importance of Reef-Based Resources for Reproduction in a Temperate Reef Fish

Session 2, Graduate Students
Colleges of Arts, Media, and Communication, Social and Behavioral Sciences & Humanities
8:30 AM - 10:40 AM, Completed Stage
Theme: Culture and Social Justice

First Place
9:00 AM
Kayla Gorenstein
Graduate, Department of Psychology
Faculty Mentor: Jill Razani
Title of Presentation: How Cultural Factors in Ethnically Diverse Immigrants Affect Neuropsychological Test Performance

Second Place Winner
10:10 AM
Jennifer Jackson
Graduate, Department of Social Work
Faculty Mentor: Eli Bartle
Title of Presentation: Experiences of Doulas Working with Black Mothers in Los Angeles
Session 3, Graduate Students
College of Engineering and Computer Science
8:30 AM - 10:25 AM, Completed Stage

First Place Winner

- 10:10 AM
  
  **Divyadeep Upadhyay**
  Graduate, Department of Mechanical Engineering
  **Faculty Mentor:** Christoph Schaal
  **Title of Presentation:** Vision Based Tracking of Scattering High Intensity Focused Ultrasound in Shadowgraph Images.

Second Place

- 8:30 AM
  
  **Arturo Garcia**
  Graduate, Department of Mechanical Engineering
  **Faculty Mentor:** Shadi Mahjoob
  **Title of Presentation:** Numerical Investigation of Gas Turbine Internal Cooling Employing Structured Channels

Session 4, Graduate Students
College of Science and Mathematics
8:30 AM - 10:40 AM, Completed Stage

First Place Winner

- 8:30 AM
  
  **Cameron Geller**
  Graduate, Department of Biology
  **Faculty Mentor:** Jonathan Kelber
  **Title of Presentation:** Metabolic Intermediates or Fibronectin Mediate Effectiveness of Targeted DHPS/SLC3A2 Inhibition in Triple Negative Breast Cancer Cells via Subcellular SMAD3 and eIF5A1/2 Redistribution Mechanisms

Second Place Winner

- 10:10 AM
  
  **Loren Padilla**
  Graduate, Department of Biology
  **Faculty Mentor:** Gilberto Flores
  **Title of Presentation:** Mechanisms of 2'-fucosyllactose degradation by the common human gut bacterium Akkermansia muciniphila.
Session 5, Undergraduate Students
Colleges of Arts, Media, and Communication, Health and Human Development
& Social and Behavioral Sciences
8:30 AM - 10:25 AM, Completed Stage

First Place Winner
- 8:30 AM
  Amos Burns, Renee Nadres and Kaori Ito
  Undergraduate, Department of Cinema and Television Arts
  Faculty Mentor: Todd Holmes
  Title of Presentation: Hollywood and Anime: A Recipe for Successful Adaptations

Session 6, Undergraduate Students
Colleges of Science and Mathematics & Engineering and Computer Science
8:30 AM - 10:40 AM, Completed Stage

First Place Winner
- 9:15 AM
  Jonathan Lacanlale
  Undergraduate, Department of Computer Science
  Faculty Mentor: Katya Mkrtchyan
  Title of Presentation: Mosquito Odor Receptor Quantification

Second Place Winner
- 9:40 AM
  James Kok and Luis Ferrusquilla
  Undergraduate, Department of Mechanical Engineering
  Faculty Mentor: Peter Bishay
  Title of Presentation: Matamorph-3: An unmanned aerial vehicle with camber-morphing wings and tail stabilizers

Session 7, Undergraduate Students
Colleges of Health and Human Development, Social and Behavioral Sciences & Science and Mathematics
8:30 AM - 10:25 AM, Completed Stage
**Theme: Health**

First Place Winner
- 9:00 AM
  Caesar Liu
  Undergraduate, Department of Psychology
  Faculty Mentor: Sara Berzenski
  Title of Presentation: College Academic Perfectionism Scale: Development and Validation
Second Place Winner

- 9:40 AM
  Nazareth Ortega
  Undergraduate, Department of Psychology
  Faculty Mentor: Jill Razani
  Title of Presentation: Relationship Between Cultural Factors and Neuropsychological Test Performance in a Sample of Hispanic/Latinx Individuals in College

Session 8, Graduate Students
Colleges of Humanities, Health and Human Development & Arts, Media, and Communication
8:30 AM - 10:55 AM, Preliminary/Proposal Stage

First Place Winner

- 10:25 AM
  Michael Weise and Joshua Vicente
  Graduate, Department of Kinesiology
  Faculty Mentor: Jacob Hinkel-Lipsker
  Title of Presentation: Reading in Space: Virtual Reality Reading in an Immersive Environment

Second Place Winner

- 9:15 AM
  Tomas Hernandez
  Graduate, Department of Chicano/a Studies
  Faculty Mentor: Yriena Cervantez
  Title of Presentation: Regenerative Chicanx Art: Photovoltaic productions for community settings

Session 9, Graduate Students
College of Social and Behavioral Sciences
8:30 AM - 10:40 AM, Preliminary/Proposal Stage

First Place Winner

- 9:15 AM
  Donna Crilly
  Graduate, Department of Anthropology
  Faculty Mentor: Kimberly Kirner, Suzanne Scheld and Cathy Costin
  Title of Presentation: Art and punk as a process: hopepunk within the cultural context of the US from 2016-2021

Second Place Winner

- 8:30 AM
  Schuyler Zans
  Graduate, Department of Social Work
  Faculty Mentor: Eli Bartle
  Title of Presentation: Competencies for Treatment of Transgender Survivors of Sexual Violence
Session 10, Graduate Students  
*College of Science and Mathematics*  
8:30 AM - 10:40 AM, Preliminary/Proposal Stage

**First Place Winner**  
- 9:00 AM  
  *Jocelyn Coreas, Michelle Bonilla and Michael Boulos*  
  Graduate, Department of Biology  
  **Faculty Mentor:** Mariano Loza-Coll  
  **Title of Presentation:** Transmission of ethanol tolerance to progeny of repeatedly intoxicated parents in Drosophila melanogaster

**Second Place Winner**  
- 9:15 AM  
  *Jesus Hernandez*  
  Graduate, Department of Chemistry and Biochemistry  
  **Faculty Mentor:** Joseph Teprovich  
  **Title of Presentation:** Developing Carbon Quantum Dots for Biosensing and Photodynamic Therapy Applications

Session 11, Undergraduate Students  
*College of Engineering and Computer Science*  
8:30 AM - 10:40 AM, Preliminary/Proposal Stage  
**Theme:** Buildings and Aircrafts

**First Place Winner**  
- 8:30 AM  
  *Kamal Khalil, Michael Grams, Mariam Hanin, David Hakobyan and Laura Gheloum*  
  Undergraduate, Department of Civil Engineering and Construction Management  
  **Faculty Mentor:** Tadeh Zirakian and David Boyajian  
  **Title of Presentation:** Environmentally Friendly Building Design and its Cost Analysis

**Second Place Winner**  
- 9:40 AM  
  *Lorenzo Quijas and Tahir Quettawala*  
  Undergraduate, Department of Mechanical Engineering  
  **Faculty Mentor:** Shadi Mahjoob  
  **Title of Presentation:** Performance Study of a Lifting Fuselage
Session 12, Undergraduate Students
College of Science and Mathematics
8:30 AM - 10:55 AM, Preliminary/Proposal Stage
Theme: Cells and Genes

First Place Winner
• 10:10 AM
Marim El-Karim
Undergraduate, Department of Biology
Faculty Mentor: Rachel Mackelprang
Title of Presentation: Identifying Ancient Antibiotic Resistance Genes in Permafrost

Second Place Winner
• 9:15 AM
Sara Shatela
Undergraduate, Department of Biology
Faculty Mentor: Gilberto Flores
Title of Presentation: Investigating GABA production in the potentially therapeutic gut bacterium Akkermansia muciniphila

Session 13, Graduate Students
Colleges of Health and Human Development, Education & Social and Behavioral Sciences
12:30 PM - 2:00 PM, Completed Stage
Theme: The Pandemic and Mental Health

First Place Winner
• 1:30 PM
Lauren Knox
Graduate, Department of Psychology
Faculty Mentor: Stefanie Drew and Sara Berzenski
Title of Presentation: Zoom Mindfully: The Mediating Effects of Mindfulness on Videoconferencing Fatigue

Session 14, Graduate Students
Colleges of Humanities & Arts, Media, and Communication
12:30 PM - 1:30 PM, Completed Stage

First Place Winner
• 12:45 PM
Adrienne Sacks
Graduate, Department of Art
Faculty Mentor: Samantha Fields
Title of Presentation: Inspired by Your Purchases: Anthropomorphization and Collapse?
Session 15, Graduate Students
Colleges of Health and Human Development, Social and Behavioral Sciences & Education
12:30 PM - 1:45 PM, Completed Stage
Theme: Movement and Education

First Place Winner
• 1:15 PM
  Kathy Reyes
  Graduate, Department of Kinesiology
  Faculty Mentor: Danielle Jarvis
  Title of Presentation: A comparison of kicking kinematics among college students with and without Autism Spectrum Disorder

Session 16, Graduate Students
College of Science and Mathematics
12:30 PM - 2:00 PM, Preliminary/Proposal Stage

First Place Winner
• 1:30 PM
  Armen Khanbabaei
  Graduate, Department of Biology
  Faculty Mentor: Mariano Loza-Coll
  Title of Presentation: Experimental validation of downstream targets of Esg and STAT, and in silico analysis of their transcriptional regulation in the ISCs of Drosophila melanogaster

Session 17, Graduate Students
Colleges of Science and Mathematics & Engineering and Computer Science
12:30 PM - 2:00 PM, Preliminary/Proposal Stage

First Place Winner
• 12:30 PM
  Adam Brackman
  Graduate, Department of Geological Science
  Faculty Mentor: Joshua Schwartz
  Title of Presentation: Evaluating Discrepancies between Bulk-Rock and Single Mineral Geochemical Data in the Magmatic Evolution of Cordilleran Arc Rocks
Session 18, Undergraduate Students
Colleges Science and Mathematics, Social and Behavioral Sciences & Business and Economics
12:30 PM - 1:45 PM, Preliminary/Proposal Stage
Theme: Current World Issues

First Place Winner
- 12:45 PM
  Keenan Manpearl
  Undergraduate, Department of Biology
  Faculty Mentor: Rachel Mackelprang
  Title of Presentation: Large scale metagenomic analysis of the fungi in Arctic permafrost
Morning Poster Session  
10:00 AM-11:30 AM

Poster Group 1  
Graduate, Completed  
College of Science and Mathematics

First Place Winner
• Adit Ghosh  
  Graduate, Department of Geological Science  
  Faculty Mentor: Jennifer Cotton and Scott Hauswirth  
  Title of Presentation: Did climatic changes during the Miocene-Pliocene in South American drive changes in vegetation communities in the region? Studies from three fossil soil (paleosols) localities in N.W. Argentina, using polycyclic aromatic hydrocarbons, δ13C, and bulk geochemistry.

Poster Group 2  
Graduate, Completed  
Colleges of Health and Human Development, Humanities & Social and Behavioral Sciences

First Place Winner
• Daniella Hay  
  Graduate, Department of Communication Disorders and Sciences  
  Faculty Mentor: Vickie Yu  
  Title of Presentation: The Effects of Music Activity on Language Therapy for People with Aphasia

Poster Group 3  
Graduate, Preliminary  
Colleges of Health and Human Development & Social and Behavioral Sciences

First Place Winner
• Anna Beatriz Guerrero and Gillian Vista and Sheryl Ramos  
  Graduate, Department of Communication Disorders and Sciences  
  Faculty Mentor: Vickie Yu  
  Title of Presentation: Self-Assessment on Cultural Competence among Speech-Language Pathologists and Communicative Disorders and Sciences Students
Second Place Winner

- **Jazlyn Armendariz and Maria Pena**
  Graduate, Department of Psychology
  **Faculty Mentor:** Thomas Chan
  **Title of Presentation:** Examining the use of Speech-based Digital Biomarkers and Machine Learning to facilitate change in how Neuropsychological Assessments are conducted

Poster Group 4
Graduate, Preliminary
*College of Science and Mathematics*

First Place Winner

- **Allea Cauilan and David Bursalyan**
  Graduate, Department of Biology
  **Faculty Mentor:** Cristian Ruiz
  **Title of Presentation:** Identification of Endogenous Substrates of the AcrAB-ToIC Pump in *Escherichia coli*

Second Place Winner

- **Shanelle Wikramanayake**
  Graduate, Department of Biology
  **Faculty Mentor:** Jeanne Robertson
  **Title of Presentation:** Understanding the relative contributions of multiple modes of sexual signal to pre-mating reproductive isolation and lineage divergence

Poster Group 5
Undergraduate, Completed
*Colleges of Engineering and Computer Science, Health and Human Development & Social and Behavioral Science*

First Place Winner

- **Dylan Martirano and Cat Mesick**
  Undergraduate, Department of Psychology
  **Faculty Mentor:** Abraham Rutchick
  **Title of Presentation:** Judgments of Collective Responsibility in the Context of Protests Against Police Violence
Poster Group 6
Undergraduate, Completed
College of Science and Mathematics

First Place Winner
• Viktor Nascak
  Undergraduate, Department of Physics and Astronomy
  Faculty Mentor: Anna Bezryadina
  Title of Presentation: Rapid prototyping of microfluidic devices for biophotonic applications

Second Place Winner
• Erick Rios
  Undergraduate, Department of Chemistry and Biochemistry
  Faculty Mentor: Eric Kelson
  Title of Presentation: Evidence of active transport of phenanthroline-based anti-tumor agents into cancer cells

Poster Group 7
Undergraduate, Preliminary
Colleges of Science and Mathematics, Health and Human Development & Social and Behavioral Sciences

First Place Winner
• Aaliyeh Ayub
  Undergraduate, Department of Communication Disorders and Sciences
  Faculty Mentor: Vickie Yu
  Title of Presentation: The Importance of Preschool Educators and Their Role in Teaching Pre-Literacy Skills.

Second Place Winner
• Shannon Arias Ortega
  Undergraduate, Department of Biology
  Faculty Mentor: Rachel Mackelprang
  Title of Presentation: B-lactamase gene in Permafrost
Afternoon Poster Session
1:00 PM - 2:30 PM

Poster Group 8
Graduate, Completed
College of Social and Behavioral Sciences

First Place Winner
• Danita Hohl
  Graduate, Department of Psychology
  Faculty Mentor: Debbie Ma
  Title of Presentation: Perceptions and Categorizations of a Multiracial Public Figure

Poster Group 9
Graduate, Preliminary
Colleges of Health and Human Development, Humanities & Social and Behavioral Sciences

First Place Winner
• Daniel Saravia and Patricia Orozco-Perez
  Graduate, Department of Psychology
  Faculty Mentor: Jonathan Martinez
  Title of Presentation: Exploring the Impact of Mental Health Awareness Campaigns on Mental Health Literacy and Stigma among Latinx undergraduate students

Second Place Winner
• Jordan Nenni
  Graduate, Department of Psychology
  Faculty Mentor: Gary Katz
  Title of Presentation: Using Working Memory and Processing Speed Deficits to Predict Attention Disorders

Poster Group 10
Graduate, Preliminary
College of Science and Mathematics

First Place Winner
• Jamie Kerlin
  Graduate, Department of Biology
  Faculty Mentor: Nyssa Silbiger
  Title of Presentation: Disturbance and community effect on growth rate and survival of common coral genera of Mo’orea, French Polynesia
Poster Group 11
Undergraduate, Completed
Colleges of Arts, Media, and Communication, Health and Human Development & Social and Behavioral Sciences

First Place Winner
• **Zabrina Legarda and Lauren Knox**
  Undergraduate, Department of Psychology
  **Faculty Mentor:** Stefanie Drew
  **Title of Presentation:** Zoom me up, Scotty: Examining the effects of videoconferencing on Anxiety and Depression

Second Place Winner
• **Nidah Mohammed**
  Undergraduate, Department of Psychology
  **Faculty Mentor:** Stefanie Drew and Sara Berzenski
  **Title of Presentation:** Time to Unplug: Screen Time’s Effects on Visual Fatigue

Poster Group 12
Undergraduate, Completed
Colleges of Engineering and Computer Science & Science and Mathematics

First Place Winner
• **Emily Rukstales**
  Undergraduate, Department of Biology
  **Faculty Mentor:** Kerry Nickols
  **Title of Presentation:** Microplastic Accumulation in Tidepools

Second Place Winner
• **Kimberly Franco**
  Undergraduate, Department of Biology
  **Faculty Mentor:** Ray Hong
  **Title of Presentation:** A Correlation Between Chemotaxis Response and Dauer Formation in Nematodes

Poster Group 13
Undergraduate, Preliminary
Colleges of Engineering and Computer Science, Business and Economics, Health and Human Development & Social and Behavioral Sciences

First Place Winner
• **Isaac Chavez**
  Undergraduate, Department of Mechanical Engineering
  **Faculty Mentor:** Shadi Mahjoob
  **Title of Presentation:** Performance Study of Low Reynolds Number Eppler 423 Airfoil
Poster Group 14
Undergraduate, Preliminary
College of Science and Mathematics

First Place Winner
• **Maria Isabel Chosco**
  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

Second Place Winner
• **Justin a Gorgy**
  Undergraduate, Department of Chemistry and Biochemistry
  **Faculty Mentor:** Ravinder Abrol
  **Title of Presentation:** The Role of SDF-1 in Biased Signaling of CXCR4 and Atypical ACKR3 Chemokine Receptors
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