

S3

SDSU  
STUDENT  
SYMPOSIUM



San Diego State  
University

## 3-Minute Thesis Award

**Niveditha Ramadoss**

Prickly Challenge to the Dead End Hypothesis from Native  
Cactus *Cylindropuntia*

**Mentor:** Lluvia Flores-Renteria

*Sciences*



San Diego State  
University

## 3-Minute Thesis Award

**Jocelyn Smith**

Exploring the Knowledge and Attitudes of Emerging Health  
and Human Service Professionals Regarding Sexuality and  
Older Adults

**Mentor:** Megan Ebor

*Health and Human Services*



San Diego State  
University

## Arts Alive Award

Emily Deskin & Julia Elbert

Here With You

**Mentor:** Leslie Seiters  
*Professional Studies and Fine Arts*



San Diego State  
University

## Arts Exhibit Award

**Kieran Gomez-Rodriguez**

No More Brownfields: Branding for Community Outreach

**Mentor:** Gary Benzel

*Professional Studies and Fine Arts*



San Diego State  
University

## Dean's Award: Business

Arvin Domier & Talia Finburgh

Investigating Power Loss and its Impact on Disadvantaged Communities

**Mentor:** John McMillan  
*Fowler College of Business*



San Diego State  
University

## Dean's Award: Business

Brenna Barnes, Angelina Thomas,  
Chuck Thompson & Isis Sylve

Why are Black Women in Sports are Perceived Badly in The Media?

**Mentor:** Rachael Stewart  
*Fowler College of Business*



San Diego State  
University

## Dean's Award: Arts and Letters

**Jorge Arana**

Cognitive Approaches to Literature

**Mentor:** Jeanette Shumaker

*Arts and Letters*



## **Dean's Award: Arts and Letters**

### **Brenna Fowler**

Utilizing ultra-high spatial resolution drone imagery and satellite spectral vegetation indices (SVI) to study Payments for Ecosystem Services (PES) Zones in Chitwan, Nepal

**Mentor:** Douglas Stow

*Arts and Letters*



San Diego State  
University

## Dean's Award: Education

**Alexis Hernandez**

105 Miles from Home: Unveiling Operation Pedro Pan in a  
One-Act Play

**Mentor:** Katie Turner

*Education*



San Diego State  
University

## Dean's Award: Education

Elizabeth Nguyen

Incorporating Culturally Relevant Pedagogy in Chemistry to  
Promote Success for Women of Color in STEM

**Mentor:** Dr. Felisha Herrera Villareal

*Education*



San Diego State  
University

## Dean's Award: Engineering

**Glorya Escobar**

Assessing the Capabilities of a Real-time, Portable  
Fluorometer to Track Sewage Inputs in Urban Creeks

**Mentor:** Natalie Mladenov

*Engineering*



San Diego State  
University

## Dean's Award: Engineering

**Ella Knight**

Marine Debris from River Margins: Wet and Dry Weathering  
Effects on the Fragmentation and Degradation of Discarded  
Plastic

**Mentor:** Natalie Mladenov

*Engineering*



San Diego State  
University

## Dean's Award: Health & Human Services

**Elora Shakoor**

Aquatic Toxicological Assessment of Electronic Tobacco  
Products: Hazardous to California Wildlife

**Mentor:** Karilyn Sant

*Health and Human Services*

## Dean's Award: Health & Human Services

**Alana Lopez**

Assessing the role of social support as a buffer against bias-based bullying and depressive symptoms among Latinx adolescents

**Mentor:** Jennifer Felner

*Health and Human Services*



San Diego State  
University

## Dean's Award: Imperial Valley Campus

Julio Aguilar, Emilia Alcala,  
Camila Castro-Garcia, & Karla Miramontes Castro

Navigating Cancer Care at the US-Mexico Border

**Mentor:** Linda Abarbanell  
*SDSU Imperial Valley*





San Diego State  
University

## Dean's Award: Imperial Valley Campus

**Sabine Ruiz**

Book Talk: My Brilliant Friend

**Mentor:** Jeanette Shumaker

*SDSU Imperial Valley*



San Diego State  
University

# Dean's Award: Professional Studies & Fine Arts

Sydney Stafford

Why Does Gender Matter? Student Perspectives on  
Leadership

**Mentor:** Tiffany Dykstra-Devette

*Professional Studies and Fine Arts*

# Dean's Award: Professional Studies & Fine Arts

**Allison Gennette**

Buying was so last season: Persuasive effects of deinfluencers  
versus influencers on purchase intentions

**Mentor:** Alanna Peebles

*Professional Studies and Fine Arts*



San Diego State  
University

## Dean's Award: Sciences

**Megan Keene**

Unveiling the Role of ID1-4 proteins in Cancer Stem-like Cell  
Maintenance and Contribution to Ovarian Cancer Recurrence  
Following Chemotherapy

**Mentor:** Carrie House

*Sciences*



San Diego State  
University

## Dean's Award: Sciences

**Omar Lujano Olazaba**

The TWEAK-Fn14-NF- $\kappa$ B signaling axis enhances expression of integrin  $\alpha$ V $\beta$ 3 in a post-chemotherapy tumor microenvironment.

**Mentor:** Carrie House

*Sciences*



San Diego State  
University

# Graduate Research Excellence Award

**Anil Singh**

Mechanical Properties of Additively Manufactured  
Fiber-Reinforced Composites

**Mentor:** George Youssef

*Engineering*



San Diego State  
University

# Graduate Research Excellence Award

**Brandon Huffman**

Material Hybridization for Tunable Performance of 3D  
Printed Lattice Structures

**Mentor:** George Youssef

*Engineering*



San Diego State  
University

## Graduate Research Excellence Award

Ahmad Abushanab, Paulette Suro,  
Neharika Ravichandran & Saja Sinnawi

A Novel Approach in Diabetes Management: The Development and Clinical  
Implications of a MEMS Cuff Electrode for Vagus Nerve Stimulation

**Mentor:** Sam Kassegne  
*Engineering*





San Diego State  
University

# Graduate Research Excellence Award

**Karina Cerda**

Tri-trophic interaction: Two fungi and a pine tree.

**Mentor:** Lluvia Flores-Renteria

*Sciences*



San Diego State  
University

## Graduate Research Excellence Award

**Tamsen Dunn**

Hunting for genomic fossils: Inferring the characteristics of ancient polyploidization events from modern plant genomes

**Mentor:** Arun Sethuraman

*Sciences*



San Diego State  
University

# Graduate Research Excellence Award

**Anurima Saha**

Predicting Crime Resolution in Los Angeles

**Mentor:** Ming Tsou

*Arts and Letters*



San Diego State  
University

## HSI Award

**Aurora Valdez De La Torre**

Fear Embodied: Transforming Temor into Resistance Along  
the Borderlands

**Mentor:** Irene Lara

*Arts and Letters*



San Diego State  
University

## HSI Award

**Marian Carbajal**

The Increase in Mother-Daughter Closeness After  
Participation in the Conmigo Program: An Intervention  
Program for Latina Mothers and Daughters

**Mentor:** Elva Arredondo

*Sciences*



San Diego State  
University

## Library Award

Grace Dearborn

E.C. and the Nuclear Unit: What a Difference a Code Makes!

**Mentor:** Elizabeth Pollard

*Arts and Letters*



San Diego State  
University

## Library Award

Darya Ardehali

Indigenous Art for Perspective

**Mentor:** Desmond Hassing

*Arts and Letters*



San Diego State  
University

## Library Award

**Jocelyn Smith**

Exploring the Knowledge and Attitudes of Emerging Health  
and Human Service Professionals Regarding Sexuality and  
Older Adults

**Mentor:** Megan Ebor

*Health and Human Services*





San Diego State  
University

## Library Award

**Kylie Macias**

Smell-Based Wearable and Portable Devices in Health  
Improvement - A Scoping Review

**Mentor:** Surabhi Bhutani

*Sciences*



San Diego State  
University

## Library Award

David Neuhausler

Prediction of Delisting using a Machine Learning Ensemble

**Mentor:** Juanjuan Fan

*Sciences*



San Diego State  
University

# Outstanding Creative and Performing Arts Award

**Alyssa Moreno**

Entremedio/ In between

**Mentor:** Jess Humphrey

*Professional Studies and Fine Arts*



San Diego State  
University

**Charles Wei-Hsun Fu Foundation  
Philosophy Award**

**Chiara Malvestiti**

The Hypocrisy of the Homo Economicus. Surveillance  
Capitalism and Law of Profit.

**Mentor:** Tawny Whaley

*Arts and Letters*



San Diego State  
University

## President's Award

Belen Rashidi & Elena Miller

Stigmatization of Public Housing: A Sociological Exploration of the Frontier  
Housing Project

**Mentor:** Charlene Holkenbrink-Monk  
*Arts and Letters*



San Diego State  
University

## President's Award

**Victoria Rietz**

Examining the Interaction Between Teachers and their  
Students in Head Start Classrooms

**Mentor:** Wendy Ochoa

*Education*



San Diego State  
University

## President's Award

Trinity Magdalena-Weary

Analysis of Dry and Wet Weathered Plastic Marine Debris  
using Scanning Electron Microscopy

**Mentor:** Natalie Mladenov

*Engineering*



San Diego State  
University

## President's Award

Erica Axtell, McKenna Lee,  
Laura Fitzgerald & Jessica Kramer

Cross-linguistic Interactions in Bilinguals During Word Retrieval: A Cognate and  
Noncognate Production Study

**Mentor:** Henrike Blumenfeld  
*Health and Human Services*





San Diego State  
University

## President's Award

**Sierra Aguilar & Katie Williams**

Evening Chronotypes are at Higher Risk of High Sugar Consumption due to  
Greater Sweet Taste Preference

**Mentor:** Surabhi Bhutani  
*Health and Human Services*



San Diego State  
University

## President's Award

Crystal Choi

Making Art Museums More Accessible: The Laguna Art  
Museum, A Case Study

**Mentor:** Gillian Sneed

*Professional Studies and Fine Arts*



San Diego State  
University

## President's Award

**Annika Wong**

Exploring Student-to-Student Confirmation, Communication  
Apprehension, and Academic Self-Efficacy in (Post) Carceral  
Education

**Mentor:** Tiffany Dykstra-DeVette

*Professional Studies and Fine Arts*



San Diego State  
University

## President's Award

**Meghen Bishop**

Effects of Postnatal Choline Supplementation on Lipid Profiles and Liver Function Markers in Alcohol-Exposed Sprague Dawley Rats

**Mentor:** Meeyoung Hong

*Sciences*



San Diego State  
University

## President's Award

**Sofia Howe**

The role of obese preadipocytes in the ovarian cancer tumor  
microenvironment

**Mentor:** Carrie House

*Sciences*



San Diego State  
University

## President's Award for the Arts

Chasley Schoettle

Dancing Beyond Boundaries

**Mentor:** Jess Humphrey

*Professional Studies and Fine Arts*



San Diego State  
University

## Provost's Award: Arts and Letters

**Fernanda Carrillo**

Empowering Women's Well being: A Comprehensive  
Approach to Social Health Disparities

**Mentor:** Dr. Gabriela Fernandez

*Arts and Letters*



San Diego State  
University

## Provost's Award: Arts and Letters

**Elizabeth Bushnell**

Shrinking Coastlines: Use of Uncrewed Aerial Systems to  
Map and Monitor Rocky Intertidal Habitats

**Mentor:** Doug Stow

*Arts and Letters*





San Diego State  
University

## Provost's Award: Business

**Ayoob Abed**

Why California needs to lower its taxes?

**Mentor:** Eddy Benton

*Fowler College of Business*



San Diego State  
University

## Provost's Award: Business

Alyssa Yearick & Phillip Scott

Bridging the gap between engineering and society: communicating earthquake risk via media

**Mentor:** Gloria Faraone  
*Fowler College of Business*



San Diego State  
University

## Provost's Award: Education

**Rose Anh Ngoc Do**

Supporting Emergent Multilingual Learners' Informal Science  
Education Experience

**Mentor:** Tamara Collins-Parks

*Education*



San Diego State  
University

## Provost's Award: Education

Lucyann Atkins, Nikki Lane,  
Elvan Guzman & Ayda Akkoyun

Caregiving History and Attachment State of Mind in Foster Caregivers

**Mentor:** Teresa Lind  
*Education*

## Provost's Award: Engineering

**Shiloh Bolden**

Removal of Sulfamethoxazole with a Novel Modified  
Anaerobic Baffled Reactor

**Mentor:** Natalie Mladenov

*Engineering*

## Provost's Award: Engineering

### Alexandra Grant

In the Tijuana River Estuary, how do rates of fecal indicator bacteria reduction from the border to the estuary compare to the degradation rates of other wastewater surrogates?

**Mentor:** Natalie Mladenov

*Engineering*



San Diego State  
University

## Provost's Award: Health & Human Services

Samantha Suess & Alice Xayavong

Exploring Secondhand Exposure to Vaping: A Dyad Study Using Wristband  
Nicotine and Urinary Cotinine

**Mentor:** Eyal Oren  
*Health and Human Services*



San Diego State  
University

## Provost's Award: Health & Human Services

**Kevin Nugent**

A review of registered breast cancer clinical trials and mortality using the Surveillance, Epidemiology, and End Results (SEER) program from 2006-2020

**Mentor:** Humberto Parada

*Health and Human Services*





San Diego State  
University

# Provost's Award: Professional Studies & Fine Arts

Jose Ramos Alonso & Hannah Cecilio

Life is Just a Bowl of Post-Racialism: The Black Discourse of Julia

**Mentor:** Brie Iatarola

*Professional Studies and Fine Arts*



San Diego State  
University

**Provost's Award: Professional Studies &  
Fine Arts**

**Kerry Soori McEachern**

Tranquil Hub: Crafting Calm in Contemporary Design

**Mentor:** Arzu Ozkal

*Professional Studies and Fine Arts*



San Diego State  
University

## Provost's Award: Sciences

Noemi Garcia Rodriguez

Investigating the Effects of Family Structure on Early  
Language Acquisition

**Mentor:** Margaret Friend

*Sciences*



San Diego State  
University

## Provost's Award: Sciences

Priyanshi Shah

A Machine Learning Approach to Predicting Tumor Status  
through Telomere Length Variation (TLV) Analysis

**Mentor:** Arun Sethuraman

*Sciences*



San Diego State  
University

## Provost's Award: Imperial Valley Campus

**Malia Huff & Lauren Johnston**

Engaging Nursing Students in Service Learning to Understand Rural  
Communities

**Mentor:** Shiloh Williams  
*SDSU Imperial Valley*



San Diego State  
University

# Research Award for Diversity, Inclusion and Social Justice

**Shaye Phung**

Critical analysis of an undergraduate minor: curriculum  
alignment for the multicultural learning and working  
environment

**Mentor:** Liz Buffington

*Education*



San Diego State  
University

# Research Award for Diversity, Inclusion and Social Justice

**John William Edwards, III**

“My Barber is Like a Therapist”: The Influence of  
Trauma-Informed Advocacy on Psychological Openness and  
Help-Seeking Behaviors Among African American Males  
During a Barber Visit

**Mentor:** Megan Ebor

*Health and Human Services*



San Diego State  
University

# Research Award for Diversity, Inclusion and Social Justice

**Chris Rodriguez**

Hearing Loss in US/Mexico Border Farmworkers

**Mentor:** Laura Coco

*Health and Human Services*





San Diego State  
University

## Research Award for Diversity, Inclusion and Social Justice

James Marsh, Anna Nguyen,  
Garen Vehouni & Chloe Salazar

The Impact of Spatial Skills in a Mid-Major Computer Science Course

**Mentor:** Miranda Parker  
*Sciences*



San Diego State  
University

# Research Award for Diversity, Inclusion and Social Justice

Jenna Luc

Identifying the mode of microbial origin of black spot disease  
in sea urchin *Lytechinus pictus*

**Mentor:** Catherine Schrankel

*Sciences*



San Diego State  
University

# Summer Undergraduate Research Program (SURP) Award

**Mena Shammam**

Understanding the Effects of Chemotherapy on a Fibroblast  
Cell-Derived Matrix

**Mentor:** Carrie House

*Sciences*



San Diego State  
University

# Summer Undergraduate Research Program (SURP) Award

**Alexi Olney**

Investigating the Environmental Fate of Marine Debris:  
Insights from Outdoor Exposure Experiments and Tumbling  
Simulations

**Mentor:** Natalie Mladenov

*Sciences*



San Diego State  
University

## Sustainability Award

Kristine Bernabe & Liliana Torres

Soil Temperature Profile Exploration of Thermokarst Features

**Mentor:** Donatella Zona  
*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**Allison Gallant**

Fighting for Gaza: Assessing student mobilization movements and shifting foreign policy perspectives

**Mentor:** Jonathan Graubart

*Arts and Letters*



San Diego State  
University

# Undergraduate Research Excellence Award

**Mia Quintana**

The Role of Mother's in Preadolescent Latinas Health and  
Eating Behaviors

**Mentor:** Elva Arredondo

*Arts and Letters*



San Diego State  
University

# Undergraduate Research Excellence Award

Magdalen Acker & Tiana Weeks

Over-the-Counter Hearing Aids: How user-friendly are they?

**Mentor:** Laura Coco  
*Health and Human Services*





San Diego State  
University

# Undergraduate Research Excellence Award

Elizabeth Brownlee, Kathryn Avila & Ava Guerra

Investigating Processing Speed in Aphasia

**Mentor:** JoAnn Silkes  
*Health and Human Services*



San Diego State  
University

# Undergraduate Research Excellence Award

Alicia Linsky, Noelle Abbott & Brianna O'Boyle

The Relationship between Cerebral Blood Flow and Language Impairment in  
Developmental Language Disorder

**Mentor:** Tracy Love  
*Health and Human Services*



San Diego State  
University

# Undergraduate Research Excellence Award

**Mikaela García**

Concussion Care Seeking Intentions and Behavior Does Not  
Differ Between Ethnicities in Collegiate Athletes

**Mentor:** Michelle Weber Rawlins

*Health and Human Services*



San Diego State  
University

# Undergraduate Research Excellence Award

Noelle Villegas, Abbie Brandt & Alishba Chaudhary

Semantic Abilities in Children and the Effects of SES

**Mentor:** Alyson Abel  
*Health and Human Services*



San Diego State  
University

# Undergraduate Research Excellence Award

**Tanner Kocher**

Quantum Algorithm for Resolving the Prisoner's Dilemma  
via Nash Equilibrium

**Mentor:** Krishna Murthy Kattiyan Ramamoorthy

*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**MariaIsabel Gutierrez Miller**

Examining Autistic Adults' Driving Skills and Needs  
Through Driving Simulator Sessions.

**Mentor:** Mary Baker-Ericzen

*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**Molly Hedin**

An ab initio investigation of the energetic properties of HC<sub>3</sub>O  
radicals

**Mentor:** Andrew Cooksy

*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**Cameron Schilling**

More than Soil: Digging Deeper Into the Relationships of  
Space, Equity, and Policy of Urban Agriculture in San Diego,  
CA

**Mentor:** Pascale Joassart-Marcelli

*Sciences*





San Diego State  
University

# Undergraduate Research Excellence Award

**Oscar Lopez**

Thirdhand Smoke in Homes: Fate, Characterization, and  
Remediation

**Mentor:** Nicolas Lopez-Galvez

*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

Connor Allain & Travis Johnson

Seed depth limits emergence of an invasive shrub in Southern California

**Mentor:** Nicholas Barber  
*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**Melisa Gonzalez**

Pandemic-Related Disruptions to Childcare and  
English-Spanish Bilingual Language Acquisition

**Mentor:** Margaret Friend

*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

Camille Movafagian

Determining Cloning in Native Succulent Population

**Mentor:** Lluvia Flores-Renteria  
*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**Christina Vialva**

Designing Research Diets Using USDA Food Composition  
Tables and ICP-OES

**Mentor:** Connie Weaver

*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**Maria Christina Huerta-Avila**

A Tale of Two Buildings: Do Smoking Policies Impact Discarded Waste from Commercial Cigarettes, E-Cigs, and Cannabis?

**Mentor:** Georg Matt

*Sciences*



San Diego State  
University

# Undergraduate Research Excellence Award

**Paul Kauvaka**

Tensile Behavior of Density-graded Polyurea Elastomeric  
Foams

**Mentor:** George Youssef

*Engineering*



San Diego State  
University

# Undergraduate Research Excellence Award

**Ansel Flanagan**

Characterization of 3D Printed Fiber-Reinforced Composites

**Mentor:** George Youssef

*Engineering*





San Diego State  
University

# Undergraduate Research Excellence Award

**Ryan Spaulding**

Fluorescence Spectroscopy: A Rapid, Cost- Effective Method  
of Photo-Resistance Determination

**Mentor:** Natalie Mladenov

*Engineering*



San Diego State  
University

# Women in Engineering Award 1st Place

**Celia Rufo Martin**

Multi-faceted Mechanics Analysis of Novel Auxetic  
Meta-structures

**Mentor:** George Youssef

*Engineering*

## Women in Engineering Award 2nd Place

### Maryam Ghorbani

Effects of physical properties and binder chemistry on mechanical behaviour, and biocompatibility of hydroxyapatite bioceramic scaffolds using binder jet 3D printing

**Mentor:** Elisa Torresani

*Engineering*



San Diego State  
University

## Women in Engineering Award 3rd Place

**Ramya Chandrasekaran**

Surface and subsurface flows in different wildfire-affected  
landscapes

**Mentor:** Alicia Kinoshita

*Engineering*



San Diego State  
University

# Research, Scholarship and Creative Activities Mentor Award

**Eve Kornfeld**

*Arts & Letters*



San Diego State  
University

# Research, Scholarship and Creative Activities Mentor Award

**Karilyn Echevarria Sant**

*Health & Human Services*



San Diego State  
University

# Research, Scholarship and Creative Activities Mentor Award

**Arun Sethuraman**

*Sciences*



San Diego State  
University

# Research, Scholarship and Creative Activities Mentor Award

**Marta Miletic**

*Engineering*



**S3 SDSU  
STUDENT  
SYMPOSIUM**

Thank You For Attending