

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 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



San Diego State
University

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



San Diego State
University

Dean's Award: Professional Studies & Fine Arts

Allison Gennette

Buying Was So Last Season: Persuasive Effects Of
De-Influencers 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- κ B Signaling Axis Enhances
Expression Of Integrin α V β 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 Does California Need 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



San Diego State
University

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 U.S. / 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 Mothers 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-Ericzén

Sciences



San Diego State
University

Undergraduate Research Excellence Award

Molly Hedin

An Ab Initio Investigation of the Energetic Properties of
HC3O 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



San Diego State
University

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 Graduate Mentor Award

Eve Kornfeld

Arts & Letters



San Diego State
University

Research, Scholarship and Creative Activities Graduate Mentor Award

Karilyn E. Sant

Health & Human Services



San Diego State
University

Research, Scholarship and Creative Activities Undergraduate Mentor Award

Arun Sethuraman

Sciences



San Diego State
University

Research, Scholarship and Creative Activities Undergraduate Mentor Award

Marta Miletić

Engineering

**S3 SDSU
STUDENT
SYMPOSIUM**

Thank You For Attending