

2020 Student Research Symposium Award **Recipients**

Arts Exhibit's Award

Christian Mejia, (GEOGRAPHY GEOGRAPHIC INFORMATION SCIENCE), College of Sciences

Presentation Title: *Use of Virtual Reality in Geographic Education*

Awards for Outstanding Creative and Performing Arts

Andres Wong, (Bachelor of Music Professional Studies - General), College of Professional Studies and Fine Arts

Presentation Title: *MESMERIZED: A 3'13" Serialism Piece about Today's Distracted Students*

Dean's Award: Health and Human Services

Noelle Abbott, (Joint Doctoral Program in Language and Communicative Disorders), College of Health and Human Services

Presentation Title: *The Relationship between Language Impairment and Cerebral Blood Flow: Evidence from Chronic Hypoperfusion in Aphasia*

Dean's Award: Engineering

Vi Vu, (Mechanical and Aerospace Engineering), College of Engineering

Presentation Title: *Aortic insufficiency during Heartmate3 Left Ventricle Assist Device support: a mock loop study*

Dean's Award: Education

Michael Foster, (Math and Science Education), College of Education

Presentation Title: *Defining as an Introduction to Set Theory*

Dean's Award: Arts and Letters

Rebeca N. Navarrete, (Spanish), College of Arts and Letters

Presentation Title: *Hey Google, What's a 'Vape God'? An Analysis of Characteristics Emulated by "Vape Gods" on YouTube*

Dean's Award: Arts and Letters

Reyam Rammahi, (English and Comparative Literature), College of Arts and Letters

Presentation Title: *Othering Eastern Women in Frankenstein*

Dean's Award: Imperial Valley Campus

Viviann Cesena, (Social Work), Imperial Valley Campus

Presentation Title: *Developing and Adapting Survivorship Care Plans for Rural Latina Breast Cancer Patients*

Dean's Award: Professional Studies and Fine Arts

Willow Lark, (Music (BA)), College of Professional Studies and Fine Arts

Presentation Title: *Zilphia Horton: Connecting Church Life, Labor Organizing, and the Civil Rights Movement through Music*

Dean's Award: Professional Studies and Fine Arts

Devon Hunt, (Master of Fine Arts in Musical Theatre), College of Professional Studies and Fine Arts

Presentation Title: *Building the Pipeline: A Proposed Curriculum for a Graduate Certificate in Musical Theatre Education and Direction*

Dean's Award: Health and Human Services

Lauren Azar, (Social Work), College of Health and Human Services

Presentation Title: *Sexual Exploitation Among College Students: An Exploratory Study In San Diego State University Student Body*

Dean's Award: Education

Brianna Wuensch, (School Psychology), College of Education

Presentation Title: *Examining the Effects of Interleaved Solutions and Problem Solving on Math Fluency Outcomes*

Dean's Award: Imperial Valley Campus

Elvira Hernandez, (Psychology), Imperial Valley Campus

Presentation Title: *Comparing Cancer Beliefs and Practices across the US-Mexico Border: A Binational Study*

Dean's Award: Sciences

Casey Vanderlip, (Biology), College of Sciences

Presentation Title: *Characterization of the ultrastructure of the common marmoset (*Callithrix jacchus*) hippocampus using electron microscopy*

Dean's Award: Engineering

Jose Moreto, (Engineering Science), College of Engineering

Presentation Title: *Towards physics-based turbulence modeling of pressure-related terms*

Dean's Award: Engineering

Alexa Garcia, (Environmental Science), College of Sciences

Presentation Title: *Does environmental PPAR γ crosstalk with Nrf2 signaling pathways?*

Research Awards for Diversity, Inclusion and Social Justice

David Rivera, (Psychology), College of Sciences

Presentation Title: *Traditional Machismo, Caballerismo, and the Pre-exposure Prophylaxis (PrEP) Cascade among a Sample of Latino Sexual Minority Men*

Research Awards for Diversity, Inclusion and Social Justice

Anagha Katthe, (Civil Engineering (Transportation)), College of Engineering

Presentation Title: *Assessing the Safety Impact of a Narrow Automated Vehicle-Exclusive Reversible Lane on an Existing Smart Freeway*

Research Awards for Diversity, Inclusion and Social Justice

Marisa Torres-Ruiz, (Public Health, Health Behavior), College of Health and Human Services

Presentation Title: *Colorectal Cancer Trends and Screening Modalities Among Californians in 2018*

Research Awards for Diversity, Inclusion and Social Justice

Matthew Voigt, (Math and Science Education), College of Arts and Letters

Presentation Title: *Unpacking LGBTQA: Experiences and Supports for Queer Spectrum Students in Math*

Library Award

Andrea Alvarado, (History), College of Arts and Letters

Presentation Title: *“Rape Me”*: *Grunge Politics of Apathy, Trauma, and Sexual Violence*

Library Award

Michelle Harrison, (Speech Language and Hearing Sciences), College of Health and Human Services

Presentation Title: *Is Reading Attitude related to Oral Reading ability in Monolingual Vietnamese Speaking Children?*

Library Award

Alec Whitson, (History), College of Arts and Letters

Presentation Title: *Yesterday's Brew: Beer and Society in San Diego, 1860 - 1920*

Library Award

Victoria A. Davis, (Psychology), College of Sciences

Presentation Title: *Cultural Factors the Influence African American/Black Women's Adherence to Breast Cancer Treatments: A Review of the Literature*

Library Award

Albert Contreras Jr, (History), College of Arts and Letters

Presentation Title: *Edna and Lois: A Look at the Lives, Times, and Writings of a Mother and Daughter in National City.*

Charles Wei-hsun Fu Foundation Philosophy Award

Tawny Whaley, (Philosophy), College of Arts and Letters

Presentation Title: *Shame and Misogyny*

President's Award

Darielle Blevins, (Education), College of Education

Presentation Title: *Visualizing Girlhood*

President's Award

Ana Gomez Ramirez, (Biology), College of Sciences

Presentation Title: *Analyzing trophic structure of island ecosystems using stable isotopes: what is the role of nutrient subsidies from seabird nesting and foraging behavior?*

President's Award

Alexandra Strom, (Biology), College of Sciences

Presentation Title: *Identifying new regulation strategies of isocitrate dehydrogenase 1*

President's Award

Maricruz Carrillo, (Joint Doctoral Program (UCSD-SDSU) in Mechanical and Aerospace Engineering), College of Engineering

Presentation Title: *Fabrication of Ceramic Bone Scaffolds by Solvent Jetting 3D Printing and Sintering Towards Load-Bearing Applications*

President's Award

Chynna Bowman, (Biology), College of Sciences

Presentation Title: *Using Transmission Electron Microscopy to investigate the effect of pulsed 450 nm blue light on methicillin-resistant *Staphylococcus aureus**

President's Award

Jeffrey Jones, (Biology), College of Sciences

Presentation Title: *Examining the role of High Mobility Group Box 1 (Hmgb1) in cardiomyocyte senescence*

President's Award

Katherine Reil, (Cell and Molecular Biology), College of Sciences

Presentation Title: *The Efficacy of VAX014 in the B16F10 Mouse Model: A Novel Oncolytic Immunotherapy for Melanoma*

President's Award

Melissa Giluso, (Bioinformatics/ Medical Informatics), College of Sciences

Presentation Title: *Discovering Bacteriophages in the Human Gut*

President's Award

Melanie Nicholls, (IRSU JDP), College of Health and Human Services

Presentation Title: *Homeless and Polysubstance Use: A Qualitative Study on Treatment Access Solutions*

President's Award

Ivette Lorona, (MA Latin American Studies and MPH in Health Promotion & Behavioral Science), College of Arts and Letters

Presentation Title: *The Right to Health Care: Central American Asylum Seekers in Chiapas, Mexico*

President's Award for the Arts

William Lambert, (MFA in Creative Writing), College of Arts and Letters

Presentation Title: *Worship of a Decaying Martyr*

Provost's Award

Cristal Toscano, (Speech Language and Hearing Sciences), College of Health and Human Services

Presentation Title: *The Relationship between Teacher-reported Proficiency and Language Ability Measures in Spanish-English Bilingual Preschoolers*

Provost's Award

Ana Duarte, (Psychology), Imperial Valley Campus

Presentation Title: *Marital Quality in the Third Year of Marriage: Effects of Premarital Cohabitation, Ethnicity, and Gender*

Provost's Award

Giannela Gonzales, (Liberal Studies), College of Education

Presentation Title: *Effects of Physical Activity on Student Behavior: When Should Schoolchildren Engage in Physical Activity?*

Provost's Award

Hannah Sandoval, (Latin American Studies), College of Arts and Letters

Presentation Title: *Implementation of Ethno-Studies Curriculum in Barranquilla, Colombia: Towards Inclusivity of the Afro-Colombian Populations*

Provost's Award

Azar Robles, (Education Dual Language & English Learner: Critical Literacy and Social Justice), College of Education

Presentation Title: *High School English Learner Desertion*

Provost's Award

Annie Miodovski, (Speech, Language, and Hearing Sciences), College of Health and Human Services

Presentation Title: *Head and Neck Cancer - Disease and Treatment Impact on Speech Physiology*

Provost's Award

Paola Diaz de Regules, (Masters of Public Administration and Master of Arts in Latin American Studies), College of Professional Studies and Fine Arts

Presentation Title: *Nongovernmental Organizations in Mexico: Impacts on Food Policy*

Provost's Award

Nayeli Gonzalez, (Social Work), Imperial Valley Campus

Presentation Title: *Impact of Advance Care Planning Education Intervention on Advance Directive Completion and End of Life Communication Among Hispanic Cancer Patients*

Provost's Award

Brenton Wilder, (Civil Engineering (Water Resources)), College of Engineering

Presentation Title: *Flood after fire in Southern California – Incorporating Machine Learning to Identify Important Parameters for Process-based Hydrologic Models*

Provost's Award

Christopher Oyuela, (Mechanical Engineering), College of Engineering

Presentation Title: *Tri Hybrid Ultra Light Composites For Bio-applications*

Provost's Award

Sharon Sengphanith, (Interdisciplinary Studies), College of Professional Studies and Fine Arts

Presentation Title: *rAAV as Potential Therapeutic for Glioblastoma*

Provost's Award

Karen Thomas, (Cellular and Molecular Biology), College of Sciences

Presentation Title: *A Rodent Model of Prenatal THC and Nicotine E-Cigarette Exposure*

Provost's Award

Shane Levi, (Biological and Medical Informatics), College of Sciences

Presentation Title: *PyFBA: Simulating Genome-Scale Metabolic Models*

Provost's Award

Miriam Kopels, (Anthropology), College of Arts and Letters

Presentation Title: *A Model Based Approach to Human Impact and Extinction*

Sustainability Award sponsored by the Center for Regional Sustainability

Margaret Patrick, (Chemistry), College of Sciences

Presentation Title: *Tuning Morphology of Nanostructured Silicon Interfaces Using Magnetic Nanoparticles for Photoelectrochemical Water Splitting*

Undergraduate Research Excellence Award

Carolina Cano Macip, (Cellular and Molecular Biology),
College of Sciences

Presentation Title: *Human iPSC-derived senescent microglia as a screening platform for Alzheimer's disease therapeutics*

Undergraduate Research Excellence Award

Talia Kieu, (Public Health), College of Health and Human Services

Presentation Title: *he Impact of Specific Dimensions of Gender Sexuality Alliance Participation on Academic Outcomes Among LGBTQ+ High School Students*

Undergraduate Research Excellence Award

Rene Arvizu, (Mechanical Engineering with a Bioengineering Emphasis), College of Engineering

Presentation Title: *Baja Epi-Intra NeuroMEMS Device*

Undergraduate Research Excellence Award

Milagros Esmerode, (Cellular and Molecular Biology), College of Sciences

Presentation Title: *Investigating the mechanism of a bacterial protein that induces animal metamorphoses*

Undergraduate Research Excellence Award

Melissa Favela-Ayala, (Foods and Nutrition), College of Health and Human Services

Presentation Title: *Role of olfactory imagery on eating patterns and weight gain - A Narrative Review*

Women in Engineering Award Brought to you by Satish Sharma 1st Place

Rita Hanna, (Bioengineering), College of Engineering

Presentation Title: *New Generation of Multi-Modal Spinal Neural Probes for Epidural Stimulation*

**Women in Engineering Award Brought to you by Satish
Sharma 2nd Place**

Denise Garcia, (Environmental Engineering), College of
Engineering

Presentation Title: *Performance Evaluation of a Decentralized
Wastewater Treatment Plant in Tijuana, B.C.*