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*

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**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*

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**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*

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**Dean's Award: Engineering**

Jose Moreto, (Engineering Science), College of Engineering

Presentation Title: *Towards physics-based turbulence modeling of pressure-related terms*
Alexa Garcia, (Environmental Science), College of Sciences
Presentation Title: *Does environmental PPARγ 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 LGBQA: 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
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*
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: *The Impact of Specific Dimensions of Gender Sexuality Alliance Participation on Academic Outcomes Among LGBTQ+ High School Students*
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.*