

August 2023
Awards Received
Total: \$23,059,635



Office of the Dean

Dr. Mathias Schulze and Dr. Christopher Brown

U.S. Department of Defense: "Defense Language Institute (DLI) Language Immersion Training," **\$361,155**

Geography

Dr. Hilary McMillan

National Science Foundation: "Continental-scale Controls on Baseflow Patterns (Fellowship - A. Holt)," **\$49,000**

Dr. Douglas Stow

National Science Foundation: "Shrinking Coastlines: Using Historic Data, Site Surveys, and Geographic Information System (GIS) to Model Past and Predicted Climate Change Driven Habitat Loss in the Rocky Intertidal (Fellowship - E Bushnell)," **\$49,000**

History

Dr. Gregory Daddis

Florida State University: "Hub & Spoke Post-Doctorate Fellowship Program," **\$95,000**



Administration, Rehabilitation, and Postsecondary Education

Dr. Maribel Guillermo

Commonwealth of the Northern Marianas Islands: "Comprehensive Statewide Needs Assessment (CSNA) for the Commonwealth of the Northern Mariana Islands," **\$23,987**

Dr. Caren Sax

California Department of Education: "Exceptional Family Resource Center (EFRC) Family Empowerment Center 23/24," **\$570,326**

Down Syndrome Association: "Down Syndrome Association of San Diego (DSASD) - Family Support Services 23/24," **\$8,000**

Oregon Department of Human Services: "Comprehensive Statewide Needs Assessment," **\$76,751**

San Diego County Office of Education: "Exceptional Family Resource Center (EFRC) Resolutions for Student Success 23/24" **\$77,000**

San Diego/Imperial Counties Developmental Services Inc.: “San Diego Regional Center (SDRC) California Early Start (CES) Point of Entry (POE) 23/24,” **\$140,376**

Child and Family Development

Dr. Kelsey Dickson

University of Pittsburgh: “Confirmatory Efficacy Clinical Trial of Amygdala Neurofeedback for Depression,” **\$23,695**

Dr. Teresa Lind

National Institute of Mental Health: “Improving Sustainment through Implementation Supports to Reduce Burnout in Therapists Delivering Child Trauma Evidence-Based Practice (EBP)s,” **\$191,285**

Dr. Sarah Rieth

U.S. Department of Education Institute of Education Sciences: “Examining the Efficacy of Project ImPACT for Toddlers,” **\$677,660**

Counseling and School Psychology

Dr. Laura Owen

Price Philanthropies Foundation: “Avenues for Success,” **\$1,328,969**

Dual Language and English Learner Education

Dr. Alberto Esquinca and Dr. Melissa Navarro

National Science Foundation: “Support Partnership for New Bilingual Science and Engineering Maestres,” **\$1,202,028**

Educational Leadership

Dr. Jose Escobedo

Feaster Charter School: “National Center for Urban School Transformation (NCUST): Leadership Certificate Program with Feaster Charter School 2023-2024,” **\$160,000**

San Diego County Office of Education: “National Center for Urban School Transformation (NCUST): Leadership - San Diego County Office of Education Oceanside 2023,” **\$160,000**

Special Education

Dr. Laura Hall and Dr. Paul Luelmo

U.S. Department of Education Office of Special Education/Rehabilitation Services: “Project PIPELINES2: Preparing Intervention Personnel as Early Learning Navigators using Equitable Strategies,” **\$199,992**

Teacher Education

Dr. Cynthia Park

U.S. Department of Education Office of Postsecondary Education: “Educational Talent Search,” **\$586,172**; and “Talent Search Mentoring,” **\$288,470**

Aerospace Engineering

Dr. Gustaaf Jacobs and Dr. Qi Wang

U.S. Department of Defense Air Force Office of Scientific Research: “Inference of Forcing Kernels in Generalized, Multi-Physics, Dynamic Systems,” **\$168,728**

Dr. Satchi Venkataraman and Dr. Margherita Capriotti

M4 Engineering: “Friction Drilling Fasteners for Composite Structures,” **\$38,500**

Civil, Construction, and Environmental Engineering

Dr. Natalie Mladenov

National Science Foundation: “Investigating Antibiotics Removal from Wet Onsite Sanitation Systems Using Bench-scale Anaerobic Digesters (Fellowship - Astete-Vasquez),” **\$49,000**

Electrical and Computer Engineering

Dr. Tong Huang and Dr. Chunting Mi

National Science Foundation: “Boosting Cyber and Physical Resilience of Power Electronics-dominated Distribution Grids in Energy Space,” **\$1,500,000**

Dr. Sunil Kumar

PAR Government Systems Corporation: “Network-Adaptive Waveform Design,” **\$79,998**

Dr. Christopher Paolini

Department of California Highway Patrol: “Testing Services for Police Traffic Radar and Laser Speed Measuring Devices,” **\$249,999**

Dr. Satish Sharma

U.S. Department of Defense Naval Information Warfare Center (NIWC): “Design and Test Support for Microwave Transmit and Receive SATCOM Wide Circular Polarized Phased Array,” **\$59,981**

Mechanical Engineering

Dr. Parag Katira

Columbia University: “Identifying the Origin of the Universal Performance Characteristics of Motors,” **\$15,000**

Dr. Parag Katira and Dr. George Youssef

U.S. Department of Defense U.S. Army: “b.iii.1. Materials Design: Long-range Interactions in Non-equilibrium Self-assembly,” **\$350,000**

Exercise and Nutritional Sciences

Dr. Sara Gombatto

University of California at San Diego: “Smart and Connected Health (SCH): MS-ADAPT: Multi-Sensor Adaptive Data Analytics for Physical Therapy,” **\$61,124**

Dr. Leonardo Nogueira

University of California Office of the President: “Cigarette Smoke Effects on Nitric Oxide-dependent Muscle Regeneration,” **\$122,579**

Dr. Connie Weaver

Florida International University: “Effect of Soluble Corn Fiber Supplementation on Bone Metabolism in Adolescents (MetA-Bone Trial),” **\$24,845**

Public Health

Ms. Lisa Asmus

Multicultural Health Foundation: “Advancing Health Literacy - Heart and Soul Health Connection, Hypertension Intervention Program,” **\$25,500**

Ms. Lisa Asmus and Dr. Corinne McDaniels-Davidson

Family Health Centers of San Diego: “Human Immunodeficiency Virus (HIV) Prevention for Persons Who Inject Drugs (PWID),” **\$20,000**; and “Prodigy Project - Evaluation Services,” **\$5,000**

Dr. Elana Elkin and Dr. Karilyn Sant

University of California at San Francisco: “Thirdhand Smoke (THS) at the Maternal-Embryonic Interface: Mechanisms of Toxicity,” **\$75,000**

Dr. Eunha Hoh, Dr. Nathan Dodder, and Dr. Karilyn Sant

California Sea Grant College Program: “Hazard Assessment of Deep Ocean Dichlorodiphenyltrichloroethane (DDT) Disposal: Defining Biomagnified DDT+ Chemical Profiles and Investigating the Health Impacts on Sentinel Wildlife Species and Humans,” **\$1,999,494**

Dr. Shira Goldenberg

National Institute of Mental Health: “Adapting a Novel Mental Health Prevention Intervention for Migrant Mothers with Young Children in a Humanitarian Setting,” **\$615,668**

Dr. Nicolas Lopez-Galvez

University of California at San Francisco: “Assessing Exposure to Thirdhand Smoke by Analyzing Cotinine in Handwipes,” **\$75,000**

Dr. Corinne McDaniels-Davidson and Ms. Tanya Penn

San Diego County Health and Human Services Agency: “Community Health Worker Program Implementation, Community Coalition Management and Evaluation Services,” **\$592,281**

Dr. Humberto Parada

National Cancer Institute: “Red Blood Cell Polyunsaturated Fatty Acids and Breast Cancer Mortality in the Women's Healthy Eating and Living (WHEL) Study,” **\$185,595**

Social Work

Mr. Steven Hornberger

County of San Diego Child Welfare Services: “Technical Assistance for Family Urgent Response System,”
\$57,488

Dr. Eunjeong Ko

California Breast Cancer Research Program: “Leveraging Community Assets to Reduce Financial Toxicity among Hispanic Breast Cancer Survivors,” **\$14,830**

Dr. Eileen Pitpitan

National Institute on Drug Abuse: “Integration of Peer Navigation and mHealth Technology to Improve Viral Suppression among Racial and Ethnic Minority Persons Living with HIV (PLWH) in Community-based Human Immunodeficiency Virus (HIV) Health Care Clinics,” **\$673,149**

Ms. Jennifer Tucker-Tatlow and Ms. Jennifer Baum

California Department of Social Services: “California Department of Social Services (CDSS) Adult Protective Services (APS) Interview for Decisional Abilities (IDA) 23/24,” **\$124,562**

San Bernardino County Children and Family Services: “San Bernardino (SB) Children & Family Services 23/24,”
\$2,762,824

Speech, Language, and Hearing Sciences

Dr. Karen Emmorey

National Science Foundation: “Using a Novel fMRI Localizer to Characterize Functional Variability in the Sign Language Comprehension Network,” **\$49,000**

Dr. Jill Preminger

Communication Disorders Technology, Inc.: “Efficient Estimation of Auditory Sensitivity and Cognitive Status Using Spoken-digit Tests,” **\$42,945**

Dr. Peter Torre

Harvard University: “Pediatric Human Immunodeficiency Virus (HIV)/Acquired Immunodeficiency Syndrome (AIDS) Cohort Study (PHACS) 2021,” **\$17,457**



School of Public Affairs

Dr. Bruce Appleyard

University of New Mexico: “Center for Pedestrian Bicycle Safety,” \$335,000

Office of the Dean

Dr. Stacy Ochoa Mikrut

Stupski Foundation: "SDSU Stupski Advisor Support Collective," **\$20,000**

Biology

Dr. Kevin Burns

National Science Foundation: "Migratory Genetics and Subspecies Intergradation in the Allen's Hummingbird (Selasphorus sasin) (Fellowship - S. Hood)," **\$49,000**

Dr. Carrie House

Burnham Institute for Medical Research: "Role of TWEAK in the Development of Ovarian Cancer Stem-like Cells - L. Santiago," **\$54,240**

National Cancer Institute: "Alternative NF- κ B Activation in Post-chemotherapy Setting to Elucidate Novel Mechanisms of Ovarian Cancer Relapse," **\$387,223**

Dr. Kevin Hovel

National Science Foundation: "Indirect Effects of Climate Change on Blue Mussels via Changes to Mussel Parasitism - J. Griffin," **\$49,000**

Dr. Jeremy Long

National Science Foundation: "Determining the Driving Factors of the Corynactis Associational Refuge - Fellowship X. Boone," **\$49,000**

Mr. Ty Roach

Michigan State University: "The Role of Betaine Lipid Biochemistry in Coral Thermal Tolerance," **\$91,179**

Dr. Donatella Zona and Dr. Walter Oechel

National Science Foundation: "Multi-decadal Year-round CO₂ and CH₄ Fluxes to Understand Long-term Impact of Climate Change on the Arctic Carbon Balance," **\$149,457**

Chemistry and Biochemistry

Dr. Tom Huxford

Rees-Stealy Research Foundation: "2023-25 Rees-Stealy Research Foundation Fellowship," **\$140,000**

Earth and Environmental Sciences

Dr. David Kimbrough

University of Wisconsin - Eau Claire: "IRES: Track 1: RUI: Collaborative Research: The Permo-Triassic Choiyoi Silicic Large Igneous Province: Regional Volcanic Framework and Potential Impact on Global Climate," **\$15,000**

Dr. Kim Olsen

University of Southern California: "Validation of SDSU Module on Southern California Earthquake Center (SCEC) Broadband Platform (BBP) for Large-magnitude Earthquakes," **\$10,000**

Mathematics and Statistics

Dr. Mary Pilgrim

National Science Foundation: “Collaborative Research: Mathematics Graduate Teaching Assistant Professional Development Focused on Engaged Learning, Inclusive Teaching, and Equity (ELITE PD) – Supplement,” **\$265,096**

Dr. William Zahner

University of Rochester Warner School of Business: “Creating a Model for Sustainable Ambitious Mathematics Programs in High-Need Settings: A Researcher-Practitioner Collaboration AWD00003651,” **\$143,240**

Physics

Dr. Usha Sinha

University of California at San Diego: “Role of the Extracellular Matrix in Age-Associated Force Loss: Integrating Imaging, Biochemistry, and Multi-Scale Mesh-free Modeling,” **\$45,126**

Psychology

Dr. Elva Arredondo

National, Heart, Lung, and Blood Institute: “Enhancing Capacity in Faith-based Organizations to Implement and Sustain Multilevel Innovations to Improve Physical Activity,” **\$66,303**

Kaiser Permanente Medical Center: “Community Partnership for Telehealth Solutions to Counter Misinformation and Achieve Equity (MINT),” **\$122,296**

Dr. Aaron Blashill

National Science Foundation: “Longitudinal Reporting of Children's Gender Identity and Sexual Orientation among Parent-Child Dyads,” **\$49,000**

Dr. Ruth Carper

National Science Foundation: “Identifying Neurocognitive Subtypes of Executive Function across Autism Spectrum Disorders (ASD) and Attention-deficit Hyperactivity Disorder (ADHD) - M. Cordova,” **\$49,000**

Dr. Ruth Keehn

National Institute of Mental Health: “Neurobiobehavioral Markers of Stress, Saliency, and Multisensory Dysfunction in Autism,” **\$743,341**

Dr. Jessica McCurley

National, Heart, Lung, and Blood Institute, “Be Well at Work-Plus: Engaging Low-wage Workers in the Design and Implementation of a Depression and Physical Activity Intervention,” **\$191,850**

Dr. Miguel Villodas

National Science Foundation, “In Search of Mechanisms Underlying Parental Maltreatment History and Parenting - K. Hong),” **\$49,000**

Dr. Kristen Wells

University of Arizona: “Ethnicity and Lung Cancer Survival: A Test of the Hispanic Sociocultural Hypothesis,” **\$10,234**

Dr. Jillian Wiggins

National Institute of Mental Health: “Neural Mechanisms of Risk and Resilience in Early Childhood Irritability,”
\$679,530



Management Information Systems

Dr. Carlos Paternina-Arboleda

Partners of the Americas: “Collaborative Online Learning for the Improvement of the Cacao Value Chain in Colombia,” **\$25,000**



Ms. Trisha Richter

Frieda Berlinski Foundation: “Berlinski One Book One San Diego,” **\$25,000**



Dr. John Crockett

U.S. Department of Defense Naval Information Warfare Center (NIWC): “Analytical and Technical Support Services from Undergraduate and Graduate Students at Educational Institutions,” **\$103,291**



Dr. Mary Taylor

San Diego Housing Commission: “Guardian Scholar Program,” **\$600,000**

INTERDISCIPLINARY PROGRAMS

Dr. Daniel Sousa, Dr. Trent Biggs, and Dr. Natalie Mladenov

National Aeronautics and Space Administration: “Hyperspectral Remote Sensing of Estuarine and Inland Water Quality: Empirical Line Method-based Atmospheric Correction and Data Fusion with Manifold Learning,”
\$200,000

Dr. Natalie Mladenov, Dr. Eunha Hoh, and Dr. Karilyn Sant

National Science Foundation: “Sunlight and Tire Wear Particles - A Toxic Combination? Evaluating Mechanisms for Mobilization and Degradation of Tire Particle Compounds,” **\$419,889**

Dr. Hassan Tavakol-Davani and Dr. Megan Welsh

University of South Carolina: “SCC-PG: Intelligent Flood Detection and Warning System to Assist Homeless Communities and Emergency Management Entities,” **\$47,218**

Dr. Karen Emmorey and Dr. Phillip Holcomb

National Institute on Deafness/Other Communication Disorders: “Assessing the Neural Dynamics of Reading in Deaf Adults,” **\$468,452**

Dr. Karen Emmorey, Dr. Phillip Holcomb, Dr. Emily Kappenman, and Dr. Tracy Love-Geffen

National Science Foundation: “Identifying Neurocognitive Mechanisms of Reading through Co-registration of Electroencephalography (EEG) and Eye Movements,” **\$154,395**

Dr. Megan Welsh, Dr. Jerel Calzo, Dr. Jennifer Felner, Dr. Natalie Mladenov, Dr. Madison Swayne, and Dr. Matthew Verbyla

California Department of Public Health: “SDSU Proposal to Develop Statewide Guidance for WaSH Services for People Living in Encampments and Shelters in California,” **\$279,840**

Dr. Madison Swayne and Dr. Jessica Barlow

California EPA Toxic Substances Control Department: “Statewide Inventory of Brownfields in California,” **\$149,025**

Dr. Gena Sbeglia, Mr. Lott Hill, and Dr. Stacy Ochoa Mikrut

National Science Foundation: “Enhancing Disciplinary Learning to Diversify Biology Degree Pathways and Career Pursuits at San Diego State University,” **\$499,997**