

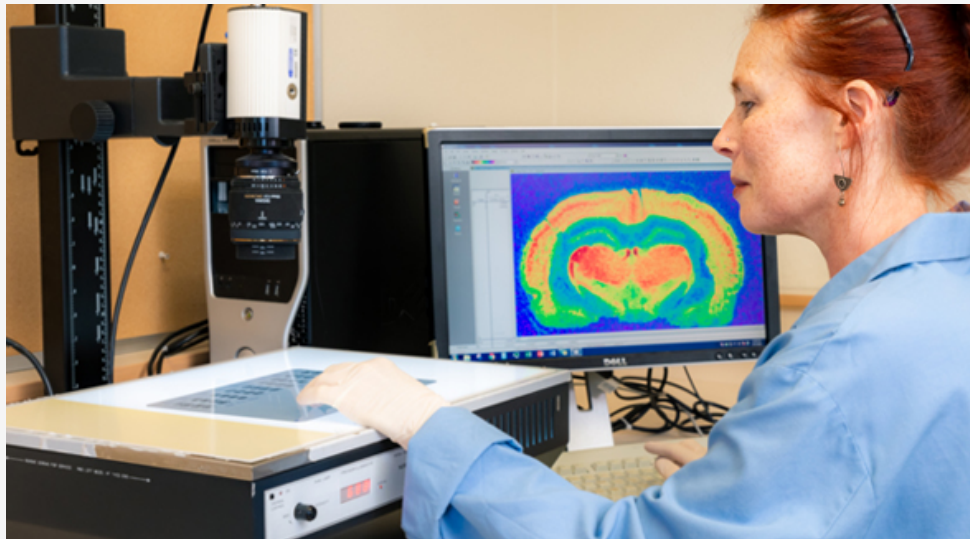


SAN DIEGO STATE UNIVERSITY

Office of Graduate and Research Affairs

\$135 million in research funding last year

Faculty this year were especially [research active](#), submitting 1,215 proposals. Twenty-three grants received in 2017-18 exceeded \$1 million to support research on myocardial healing, Latino health, and cancer, among other subjects. [Here's a full list of 2017-18 grants.](#)



New NIH Merit Award

Psychology professor Jennifer Thomas received a prestigious National Institutes of Health award to research how the nutrient choline affects development of the alcohol-exposed brain and could possibly be used to treat Fetal Alcohol Spectrum Disorder. This is the university's fourth currently active MERIT award — a number that's competitive with some of the most active research universities in the nation. [Learn more.](#)

New faces



Welcome Dr. Leona Flores

SDSU hired a new director of research development, who will help faculty identify and develop research, training opportunities, and team science efforts. Leona previously served as director of research development and collaboration at UCSD's Moores Cancer Center. [Email Leona.](#)

What's happening?

Lifetime achievement

Professor Sarah Mattson was awarded the Henry L. Rosett Award, the Fetal Alcohol Spectrum Disorders Study Group's highest honor, for her work on fetal alcohol exposure. [Learn more.](#)



In the community



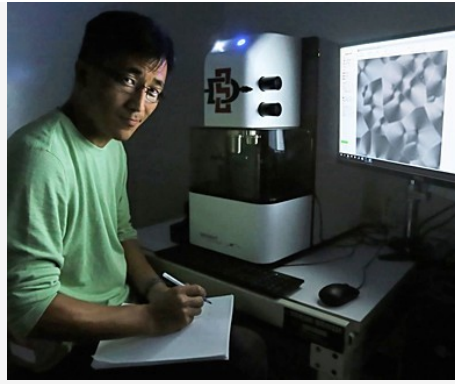
SDSU at NASA JPL

Engineering professor Ahmad Boni Younes and John McMillan, program director for research advancement, attended a NASA Jet Propulsion Laboratory event for Minority Serving Institutions and discussed SDSU's research capabilities, current NASA funded research, and partnership opportunities with JPL scientists.

Did you know?

New microscope

SDSU recently installed a \$475,000 chemical imaging microscope that uses lasers to identify the chemical composition of a specimen. The instrument was donated by DRS Daylight Solutions. [Learn more.](#)



 Follow @SDSUResearch on Twitter

Research Spotlight



Biologist Lluvia Flores-Rentería is digitizing SDSU's plant collection for a statewide effort, funded by the National Science Foundation, aimed at understanding how climate change affects flowering. [Read the article](#)



In a San Diego Union-Tribune video and article, engineering professor Natalie Mladenov discusses her research on wastewater treatment systems and sustainability. She also shared her passion for mentoring student researchers and encouraging females to pursue STEM fields. [Watch the video.](#)



An SDSU team's study of Twitter posts found both robots and real human underplay the health risks associated with e-cigarettes. [Learn more](#)

Recent Grants

Biggs, Trent

Application of Stable Isotope Techniques to Identify Inputs from Local and Imported Water Sources in Non-Stormwater Flows from the MS4 Southern California Coastal Water Research Project

\$19,971

College of Arts and Letters

Sax, Caren

Bachelors of Arts Degree in Liberal Arts and Sciences with a Major in
Interdisciplinary Studies in Three Departments
San Diego State University
\$11,265
College of Education

Johnson, Joseph F

College Avenue Compact - Parent Center at Rosa Parks
Price Philanthropies Foundation
\$313,526
College of Education

Johnson, Joseph F

College Avenue Compact - Rosa Parks & Monroe Clark Social Work Programs
Price Philanthropies Foundation
\$429,850
College of Education

Buono, Michael

Validity and reliability of energy expenditure of a cycle ergometer
Leidos Inc
\$55,524
College of Health and Human Services

Tuttle, Lori

An Innovative Rehabilitation Approach for Women with Anal Incontinence
DHHS National Inst of Child Health and Human Development
\$517,184
College of Health and Human Services

Hoh, Eunha

Understanding Formation of a Critical Disinfection Byproduct
Orange County Water District
\$25,000
College of Health and Human Services

Penn, Tanya E

2019 HASDIC CHNA
Hospital Association of San Diego and Imperial Counties
\$135,330
College of Health and Human Services

Min, Jong Won

Driving Under the Influence Program (DUIP)
San Diego County Alcohol and Drug Services

\$2,435,199

College of Health and Human Services

Tucker-Tatlow, Jennifer

Workforce Education and Training: Training and Technical Assistance - Behavioral
Health Training

San Diego County Health and Human Services Agency

\$1,825,346

College of Health and Human Services

Hedin, Marshal C

Collaborative Research: Phylogenetics, hybridization and speciation in Habronattus
jumping spiders (Salticidae)

National Science Foundation

\$518,999

College of Sciences

Kalyuzhnaya, Marina

Intrexon Training Grant

Intrexon Corporation

\$100,000

College of Sciences

Huxford, Tom

Development of Quinoxaline-Based IKKbeta Inhibitors for Kras Driven Cancers

University of Nebraska Medical Center

\$52,679

College of Sciences

Stumph, William

Enzyme Regulation, Lipid and Carbohydrate Metabolism

California Metabolic Research Foundation

\$80,000

College of Sciences

Roch, Marie

Using Context to Improve Marine Mammal Classification

DOD Office of Naval Research

\$271,175

College of Sciences

Schellenberg, Stephen

Investing in the Future of Paleoclimate Research: U.S. Graduate Student

Fellowships for the Urbino Summer Schools in Paleoclimatology

NSF Directorate of Geosciences

\$27,000

College of Sciences

Johnson, Calvin

Nuclear forces, structures, and transitions: computational studies
US Department of Energy
\$198,000
College of Sciences

Blashill, Aaron / Corliss, Heather / Jun, Hee-Jin

A Brief, Peer Co-Led, Group-Based Eating Disorder Prevention Program for Sexual
Minority Young Adult Men
DHHS Nat Center on Minority Health and Health Disparities
\$67,728
College of Sciences

Gallo, Linda

Study of Latinos-Investigation of Neurocognitive Aging (SOL-INCA)
University of California at San Diego
\$86,279
College of Sciences

Moore, Eileen

Utility of Olfactory Function Measures in Children with Prenatal Alcohol Exposure
DHHS National Institute on Alcohol Abuse and Alcoholism
\$238,353
College of Sciences

Thomas, Jennifer

Fetal Alcohol Effects and Choline Intervention
DHHS National Institute on Alcohol Abuse and Alcoholism
\$364,195
College of Sciences

Guven, Halil / Enwemeka, Chukuka

Georgia-SDSU: Degree Accreditation and Institutional Support Initiative for Science,
Technology, Engineering and Mathematics
Millennium Challenge Account - Georgia
\$5,176,749
Interdisciplinary Programs

Hushen, W Timothy

Student Support Services
DOD Space and Naval Warfare Systems Command
\$16,147
Graduate and Research Affairs

Hushen, W Timothy

Student Support Services

DOD Space and Naval Warfare Systems Command

\$4,686

Graduate and Research Affairs

Stow, Douglas

Effects of Drought Stress and Forest Management on Fire Behavior and Post-Fire

Forest Structure in a Western Coniferous Forest

USDA Forest Service

\$44,025

College of Arts & Letters

Kim, Minjeong

Ethnic Movement, Economy, and Incorporation in a Border Region

National Science Foundation

\$173,000

College of Arts & Letters

Sax, Caren

Special Education Program Monitoring and Technical Assistance

Federated States of Micronesia

\$56,320

College of Education

Wood, J. Luke

Community College Equity Assessment Lab

California Community College Athletic Association

\$40,263

College of Education

Rieth, Sarah R

Building Community Capacity: Evaluating a Distance Training Model for

Underserved, Rural Areas

Organization for Autism Research

\$29,958

College of Education

Pumpian, Ian / Sax, Caren

Creative Support Alternatives - Supported Living

San Diego/Imperial Counties Developmental Services Inc

\$390,421

College of Education

Pumpian, Ian / Sax, Caren

Creative Support Alternatives- Independent Living

San Diego/Imperial Counties Developmental Services Inc

\$12,020

College of Education

Pumpian, Ian / Sax, Caren

Creative Support Alternatives: Community Employment Services
San Diego/Imperial Counties Developmental Services Inc
\$19,682
College of Education

Johnson, Joseph F

Equity Audit - La Mesa Spring Valley School District
La Mesa Spring Valley School District
\$8,400
College of Education

Johnson, Joseph F

Sanford Institute Contract for Services
National University
\$60,000
College of Education

Beyene, Asfaw

Industrial Assessment Centers
US Department of Energy
\$255,792
College of Engineering

Morsi, Khaled

Processing of Fully Dense Nanocomposites through Novel Design
National Science Foundation
\$16,000
College of Engineering

Buono, Michael

A Randomized, Controlled Trial Examining the Effect of Lower-Body Compression on
Cycling Performance
Cosmetic Laser Dermatology
\$25,000
College of Health & Human Services

Kern, Mark

Pistachios as a Recovery Food Following Rigorous Exercise in Trained Athletes
American Pistachio Growers
\$125,000
College of Health & Human Services

Elder, John

Quantifying Heterogeneities in Dengue Virus Transmission Dynamics
University of California at Davis

\$52,744

College of Health & Human Services

Finlayson, Tracy

Developing an Oral Health Behavior Social Support Scale for Mexican-Origin Adults

DHHS National Institute of Dental and Craniofacial Research

\$701,091

College of Health & Human Services

Kassem, Nada O / Hovell, Melbourne / Lui, Kung-Jong / Hoh, Eunha

Assessing Toxicity of Waterpipe Tobacco Smoking in Laboratory and Naturalistic
Settings

DHHS National Institute on Drug Abuse

\$451,501

College of Health & Human Services

Kiene, Susan M

Enhanced Linkage to HIV Care Following Home-Based HIV Testing in Rural Uganda

DHHS National Institute of Mental Health

\$564,601

College of Health & Human Services

Quintana, PJE / Hoh, Eunha

Remediation of Tobacco Toxicants Polluting Low-Income Multiunit Housing

California Tobacco Related Disease Research Program

\$300,908

College of Health & Human Services

Tucker-Tatlow, Jennifer

APS 2017-2019

California Department of Social Services

\$740,172

College of Health & Human Services

Tucker-Tatlow, Jennifer

Social Worker Training

San Diego County Health and Human Services Agency

\$882,827

College of Health & Human Services

Emmorey, Karen

Language, Modality and the Brain

DHHS National Inst on Deafness/Other Communication Disorders

\$400,159

College of Health & Human Services

Pham, Giang T

Language-Literacy Growth in Vietnamese Children With and Without Language
Impairment

DHHS National Inst on Deafness/Other Communication Disorders

\$137,211

College of Health & Human Services

Rohwer, Forest

Bacteriophage-mediated spread of virulence factors in cystic fibrosis microbiome

Cystic Fibrosis Research Inc

\$60,000

College of Sciences

Sussman, Mark

Regulation of Signal Transduction to Treat Heart Failure

DHHS National Institutes of Health

\$376,250

College of Sciences

Sussman, Mark / Gude, Natalie A

Resolving Myocardial Regeneration by Tracking Commitment of C-Kit+Cells

DHHS National Heart Lung and Blood Institute

\$7,525

College of Sciences

Zink, Thomas

Habitat Adaptive Management and Monitoring - Oak Woodlands and Gold Spotted

Oak Borer, Camp Pendleton

DOD Space and Naval Warfare Systems Command

\$2,492

College of Sciences

Computer Science

Roch, Marie

Unsupervised Learning (Clustering) of Odontocete Echolocation Clicks

DOD Office of Naval Research

\$53,373

College of Sciences

Computer Science

Xie, Tao CSR:Small: A File System Bypassing Volatile Main Memory: Towards a
Single-Level Persistent Store Architecture

National Science Foundation

\$336,873

College of Sciences

Amir, Nader

Behavioral and Neurobiological Mechanisms of Treatment Response in Pediatric

OCD: J. Kuckertz
DHHS National Institute of Mental Health
\$480
College of Sciences

Cronan, Thereasa
SDSU ADAR Program
DHHS National Institute on Aging
\$377,999
College of Sciences

Gallo, Linda
Scripps Translational Science Institute
Scripps Research Institute
\$52,664
College of Sciences

Matt, Georg
Effects of Thirdhand Smoke Exposure on the Microbiome of Young Children
California Tobacco Related Disease Research Program
\$180,600
College of Sciences

Moore, Eileen
Brain Maturation in Adults with FASD
DHHS National Institute on Alcohol Abuse and Alcoholism
\$346,339
College of Sciences

Thoman, Dustin B
Understanding and Removing Faculty Barriers for the Adoption and Implementation
of Proven Interventions
National Science Foundation
\$1,103,645
College of Sciences

Weersing, Vanessa Robin / Amir, Nader
Effectiveness Trial of Cognitive Bias Modifications (CBM) for Adolescent Anxiety
Kaiser Foundation Research Institute
\$258,457
College of Sciences

Fuentes-Ferreiro, Suzanna
Medical Office Assistant Training 2018
Imperial County Workforce Development Board
\$76,500
Imperial Valley Campus - Academic Programs

Ayala, Guadalupe X / Castillo, Jose / Mehrabadi, Morteza M / Maloy, Stanley / Moon, Kee

Building Capacity and Infrastructure for Population Health and Health Disparities

Research at San Diego State University

DHHS National Center on Minority Health and Health Disparities

\$200,000

Interdisciplinary Programs

Hushen, W Timothy

Student Support Services

DOD Space and Naval Warfare Systems Command

\$16,147

Graduate and Research Affairs

Hushen, W Timothy

Student Support Services

DOD Space and Naval Warfare Systems Command

\$15,283

Graduate and Research Affairs

Hushen, W Timothy

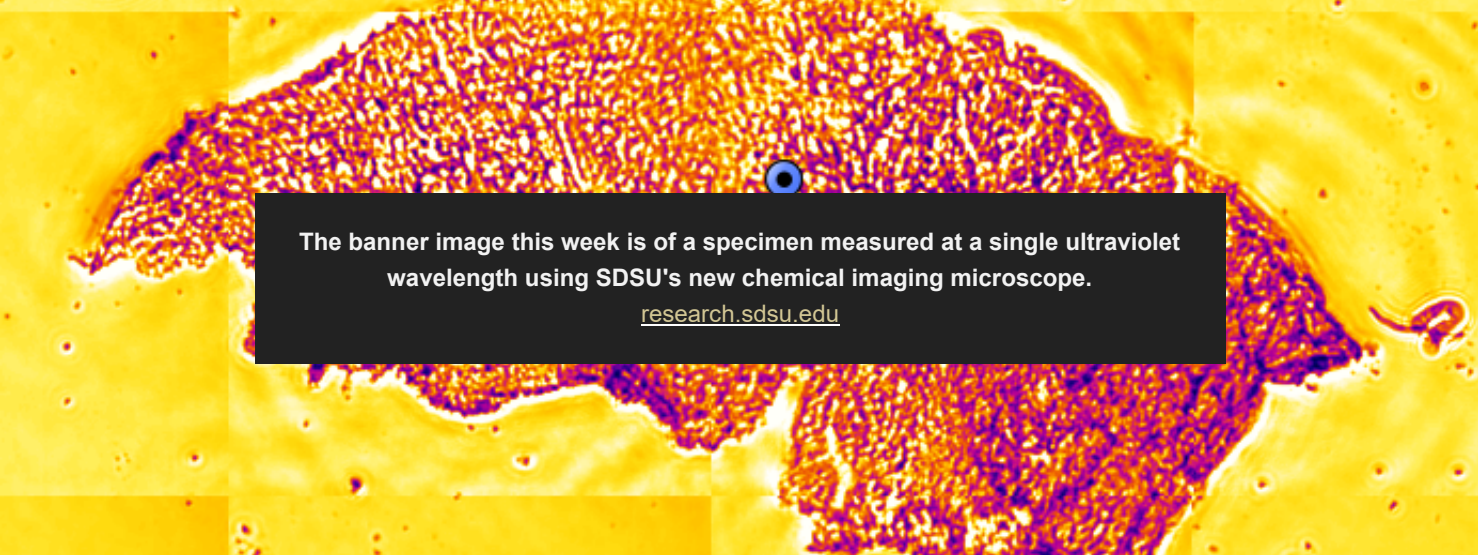
Student Support Services

DOD Space and Naval Warfare Systems Command

\$22,329

Graduate and Research Affairs

Have suggestions for the newsletter? Email us.



The banner image this week is of a specimen measured at a single ultraviolet wavelength using SDSU's new chemical imaging microscope.

research.sdsu.edu