



# SAN DIEGO STATE UNIVERSITY

Office of Graduate and Research Affairs

## Celebrating a successful year

The fiscal 2018 year has come to a close and we are happy to report that innovation at SDSU is in a great place! We've hired a new director of undergraduate research, launched spaces for entrepreneurship and collaboration in the new Engineering and Interdisciplinary Sciences building, issued a record number of patents, and our faculty have submitted 1,081 grant proposals, up 9 percent over last year.

[Learn more about SDSU research.](#)



## Summer Undergraduate Research

“When I became a professor, I said that I would never say ‘no’ to a student who is interested in doing

Priott-Lord is mentoring one of 70 students participating in SDSU’s Summer Undergraduate Research

research,” says Speech Language and Hearing Sciences researcher Sonja Pruitt-Lord. “It’s fun to watch students for the first time apply practices that they heard in the classroom.”

Program. Each participant works under the direction of a faculty mentor. The projects encompass a broad range of research and creative activities, from science to education to the arts.

Learn more about summer undergraduate research

## What's happening?



### President Adela de la Torre is here!

Dr. de la Torre is an accomplished researcher and economist whose work focuses on aspects of Latino community health. Most recently, she served as Vice Chancellor for Student Affairs at UC Davis and director for its Center for Transnational Health.

**“Our faculty has consistently expanded federal research funding and research partnerships with agencies, organizations and private industry,” says President de la Torre. “With a commitment to excellence, SDSU will continue to move forward in joining the ranks of top public research universities in the nation.”**

## Did you know?

### NASEM report workshop

John Crockett, senior director of research advancement, moderated a panel of higher education leaders discussing a report from the National Academies of Sciences, Engineering, and Medicine on sexual harassment in the academy. [Watch the discussion](#)



## In the community



### SD Start-up Week panel

Tommy Martindale, director of technology transfer, participated in a San Diego Start-up Week discussion about the evolving role of tech transfer at research universities. SDSU spin-off CardioCreate's CEO Steve Flaim, also a panelist, praised SDSU for its support of start-ups. Check out the [list of people](#) affiliated with SDSU who participated in Start-up Week.

 Follow @SDSUSResearch on Twitter

## Research Spotlight



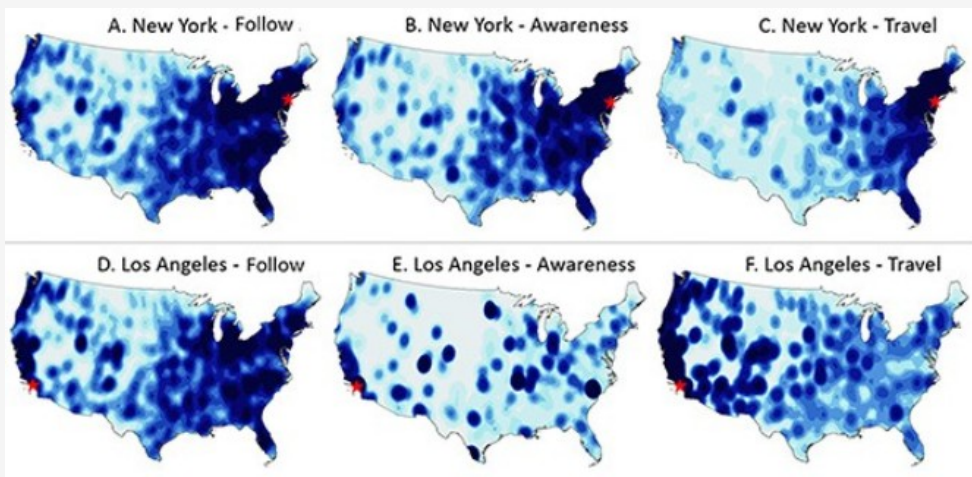
Biologist Lluvia Flores-Rentería finds the critically important Pinyon Pine tree struggles to reproduce at high temperatures. [Read the article](#)



Researchers Nathan Dodder and Eunha Hoh are working with colleagues from the San Diego Zoo to examine environmental issues that impact the California condor's reproductive success. [Read the article](#)



Neuromechanics researcher Harsimran “Sim” Baweja's published the largest-ever database on normative balance. [Learn more](#)



Research from professor Ming-Hsiang Tsou and alumna Su Yeon Han finds that physical distance still very much matters for human interactions,

despite the rise of digital technologies. [Learn more](#)

## Events

### July 12

There's an open forum at 1 p.m. in the Music Building (room 113) to discuss SDSU Mission Valley. [Register here](#)

### July 19

SDSU researchers are invited to a faculty networking trivia night at Corbin's (6458 El Cajon Blvd) at 5 p.m. Email [John McMillan](#) with questions.

## Recent Grants

### **Tucker, Mark**

Florida Blind Comprehensive Statewide Needs Assessment  
Florida Department of Education, Division of Blind Services  
\$79,989  
College of Education

### **Suhrheinrich, Jessica**

Evaluation of Implementation Factors for ASD Services in School Settings  
DHHS National Institute of Mental Health  
\$178,642  
College of Education

### **Schell, Emily**

CISP Environmental Literacy Grant  
Ten Strands  
\$60,000  
College of Education

### **Mladenov, Natalie / Verbyla, Matthew L**

Increasing Preparedness in the San Diego River Watershed for Potential Contamination Events  
City of San Diego  
\$20,000  
College of Engineering

### **Hoh, Eunha**

Thirdhand Smoke Contamination in a Neonatal Intensive Care Unit (NICU).  
University of Texas Health Science Center at Houston  
\$10,000  
College of Health & Human Services

**Talavera, Gregory**

Effects of Avocado Intake on the Nutritional Status of Families  
University of California at San Diego  
\$77,996  
College of Health & Human Services

**Glembotski, Christopher**

Harnessing the Adaptive ER Stress Response in Myocardial Ischemia  
DHHS National Heart Lung and Blood Institute  
\$376,250  
College of Sciences

**Purse, Byron W**

Next-Generation Fluorescent Nucleosides and Structure-Photophysics  
Relationships  
NSF Directorate for Mathematics and Physical Sciences  
\$414,249  
College of Sciences

**Shoemaker, Patrick**

Mechanisms for Spatiotemporal Visual Feature Detection in Insects  
DOD Air Force Office of Scientific Research  
\$97,882  
College of Sciences

**Cronan, Thereasa**

Frontiers in Aging and Regeneration Research  
University of Pittsburgh  
\$12,641  
College of Sciences

**Gallo, Linda / Roesch, Scott**

Dulce Digital-ME: An Adaptive mHealth Intervention for Undeserved Hispanics  
with Diabetes  
Scripps Research Institute  
\$180,278  
College of Sciences

**Mattson, Sarah**

A Multisite Neurobehavioral Assessment of Fetal Alcohol Spectrum Disorders  
DHHS National Institute on Alcohol Abuse and Alcoholism  
\$361,787  
College of Sciences

**Emmorey, Karen / Holcomb, Phillip J**

Neural Tuning of the Reading System

NSF Directorate for Social Behavioral and Economic Sciences

\$648,869

Interdisciplinary Programs

**Hushen, W Timothy**

Student Support Services

DOD Space and Naval Warfare Systems Command

\$41,630

Graduate and Research Affairs

**Hushen, W Timothy**

Student Support Services

DOD Space and Naval Warfare Systems Command

\$15,975

Graduate and Research Affairs

**Hushen, W Timothy**

Student Support Services

DOD Space and Naval Warfare Systems Command

\$10,753

Graduate and Research Affairs

**Tang, Ning**

Financial Literacy and the Use of Financial Advice

TIAA Institute

\$33,857

College of Business Administration

**Pumpian, Ian / Sax, Caren**

Creative Support Alternatives- Independent Living

San Diego/Imperial Counties Developmental Services Inc

\$23,794

College of Education

**Pumpian, Ian / Sax, Caren**

Creative Support Alternatives: Community Employment Services

San Diego/Imperial Counties Developmental Services Inc

\$24,351

College of Education

**Johnson, Joseph F**

NCUST Professional Services Integrity Charter School

Integrity Charter School

\$20,000

College of Education

**Verbyla, Matthew L / Ponce, Victor**

Knowledge-to-Practice – K2P: Mapping and Implementing Knowledge to  
Practice Utilizing the Global Water Pathogen Project  
Michigan State University  
\$100,536  
College of Engineering

**German, Randall / Olevsky, Eugene**  
Multi-Scale Modeling and Experimentation on Liquid Phase Sintering in Gravity  
and Microgravity Environments  
National Aeronautics and Space Administration  
\$75,000  
College of Engineering

**Miller, Fletcher**  
Hybrid Solar Converter with Integrated Thermal Storage  
University of San Diego  
\$49,286  
College of Engineering

**Castaneda, Sheila F**  
Biopsychosocial and Ecological Correlates of Latina Womens Sedentary  
Behavior  
Regents of the University of California  
\$177,029  
College of Health & Human Services

**McDaniels, Corinne**  
MCC HealthDAT Portal - Proof of Concept (POC)  
University of California at San Diego  
\$6,000  
College of Health & Human Services

**Novotny, Thomas E**  
Tobacco Companies, Public Policy and Global Health  
Simon Fraser University  
\$59,118  
College of Health & Human Services

**Tucker-Tatlow, Jennifer / Baum, Jennifer N**  
SB Children and Family Services  
County of San Bernardino  
\$2,243,367  
College of Health & Human Services

**Rojo-Mendoza, Reynaldo T**  
Promoting Applied Research Capabilities, Evidence-Based Public Policy, and  
Dissemination of Best Practices on Citizen Security in Central America



The City University of New York-John Jay College  
\$55,554  
College of Professional Studies and Fine Arts

**Edwards, Matthew**

Minimizing Disturbance Impacts by California Vessel Mooring Systems on  
Living Rhodolith Benthos in Catalina MPA's: An Experimental Assessment  
California Sea Grant College Program  
\$65,493  
College of Sciences

**Holland, Gregory P**

The Molecular Mechanisms Responsible for the Assembly of Spider Silk Fibers  
DOD Air Force Office of Scientific Research  
\$241,304  
College of Sciences

**Stumph, William**

Arne N Wick Fellowship  
California Metabolic Research Foundation  
\$41,000  
College of Sciences

**Olsen, Kim**

3D Regional Wave Propagation with  $Q(f)$  in East Asia for North Korea Nuclear  
Tests  
DOD Air Force Research Laboratory  
\$44,441  
College of Sciences

**Vaidya, Naveen**

Mathematical Models to Study the Effects of Drugs of Abuse on HIV Infection  
and Neurocognitive Disorder  
National Science Foundation  
\$78,027  
College of Sciences

**Atkins, Catherine**

Maximizing Access to Research Careers  
DHHS National Institute of General Medical Sciences  
\$243,082  
College of Sciences

**Blashill, Aaron / Wells, Kristen J**

Developing a Patient Navigation Intervention for PrEP Continuum of Care  
among Young Latino MSM  
DHHS National Institute of Mental Health

\$215,796

College of Sciences

**Keehn, Ruth J**

Impact of Multisensory Function on Symptomatology in Young Children with  
ASD

DHHS National Institute of Mental Health

\$195,916

College of Sciences

**Roesch, Scott**

Identifying Quality Indicators within Multiple EBP Delivery in Child Mental  
Health Services

University of California at San Diego

\$53,715

College of Sciences

**Roesch, Scott**

Testing the Leadership and Organizational Change for Implementation (LOCI)  
Intervention in Substance Abuse Treatment Programs

University of California at San Diego

\$22,971

College of Sciences

**Hushen, W Timothy**

Student Support Services

DOD Space and Naval Warfare Systems Command

\$2,523

Graduate and Research Affairs

**Hushen, W Timothy**

Student Support Services

DOD Space and Naval Warfare Systems Command

\$6,692

Graduate and Research Affairs

**Hushen, W Timothy**

Student Support Services

DOD Space and Naval Warfare Systems Command

\$8,201

Graduate and Research Affairs

**Herman, Thomas**

MCOE Teacher Professional Development Workshop for 7/16/18

Monterey County Office of Education

\$4,000

College of Arts & Letters

**Sax, Caren**

Cal Promise Initiative: California's Proposal for Promoting the Readiness of  
Minors in Supplement Security Income  
California Department of Rehabilitation  
\$465,879  
College of Education

**Johnson, Joseph F**

School Leadership Support - America's Finest Charter School  
America's Finest Charter School  
\$5,000  
College of Education

**Johnson, Joseph F**

A-PLUS Program  
Sweetwater Union High School District  
\$48,611  
College of Education

**Olevsky, Eugene**

MSP/Oracle Summer Java Program  
University of California Office of the President  
\$8,688  
College of Engineering

**Talavera, Gregory**

Epidemiologic Determinants of Cardiac Structure and Function (ECHO-SOL2)  
Wake Forest University Health Sciences  
\$54,430  
College of Health and Human Services

**Wu, Tianying**

Randomized Controlled Trial To Improve Oncology Nurses' Protective  
Equipment Use  
University of Michigan  
\$26,000  
College of Health and Human Services

**Hornberger, Steven**

Strategies 2.0  
California Department of Social Services  
\$610,969  
College of Health and Human Services

**Tucker-Tatlow, Jennifer / Baum, Jennifer N**

Riverside County New Practice 18/19

County of Riverside Department of Public Social Services

\$559,899

College of Health and Human Services

**Torre, Peter**

Central auditory processing function among HIV-infected and uninfected adult  
men and women

Georgetown University

\$36,131

College of Health and Human Services

**Ryan, Sherry**

A Micro-Scale Analysis of Cycling Demand, Safety and Network Quality

San Jose State University Foundation

\$75,000

College of Professional Studies and Fine Arts

**Cripps, Richard M**

Defining a molecular mechanism for paralogous compensation

National Science Foundation

\$247,758

College of Sciences

**Lewison, Rebecca**

Climate Resilient Connectivity for the South Coast Province

California Department of Fish and Wildlife

\$59,565

College of Sciences

**Lewison, Rebecca**

Modeling Mule Deer Sightability in San Diego County

California Department of Fish and Wildlife

\$65,480

College of Sciences

**Oechel, Walter / Shen, Samuel**

Cooperative Remote Sensing and Technology Center (CREST)

City College of New York

\$222,580

College of Sciences

**Guarcello, Maureen**

Building on Digital Excellence: Campus Quality Assurance

California State University Chancellor's Office

\$15,000

Instructional Technology Services

**Simpson, Michael / Flores Renteria, Lluvia H**

Digitization TCN: CR: Capturing CA Flowers: using digital images to investigate phenological change in biodiversity hotspot  
National Science Foundation  
\$25,602  
College of Sciences

**Sussman, Mark**

Lineage Contribution of Adult c-Kit+ Cardiac Progenitor Cells in Embryonic and Neonatal Development  
American Heart Association  
\$26,844  
College of Sciences

**Bergdahl, Bernt Mikael**

Chemical Synthesis of Lagunamide A, an Important Cyanobacterial Metabolite with Extraordinary high Anti-Cancer activity  
Law Offices of Quintin G. Shammam  
\$8,000  
College of Sciences

**Grotjahn, Douglas / Cooksy, Andrew L**

Experimental and Computational Studies of Bifunctional Organometallic Catalysis  
NSF Directorate for Mathematics and Physical Sciences  
\$180,000  
College of Sciences

**Gustafson, Jeffrey**

Regio- and Enantioselective Electrophilic Aromatic Substitution on Drug-Like Molecules  
NSF Directorate for Mathematics and Physical Sciences  
\$260,305  
College of Sciences

**Liu, Xiaobai**

A Comprehensive Investigation on Video-based Traffic Monitoring Systems  
Avanti R&D, Inc  
\$59,875  
College of Sciences

**Bailey, Barbara**

Spatial identification of lung abnormalities in CF via a probabilistic library of MRI measures of lung water density  
University of California at San Diego  
\$11,933  
College of Sciences

**Blashill, Aaron**

Skin Cancer Prevention among Sexual Minority Men  
American Cancer Society  
\$396,000  
College of Sciences

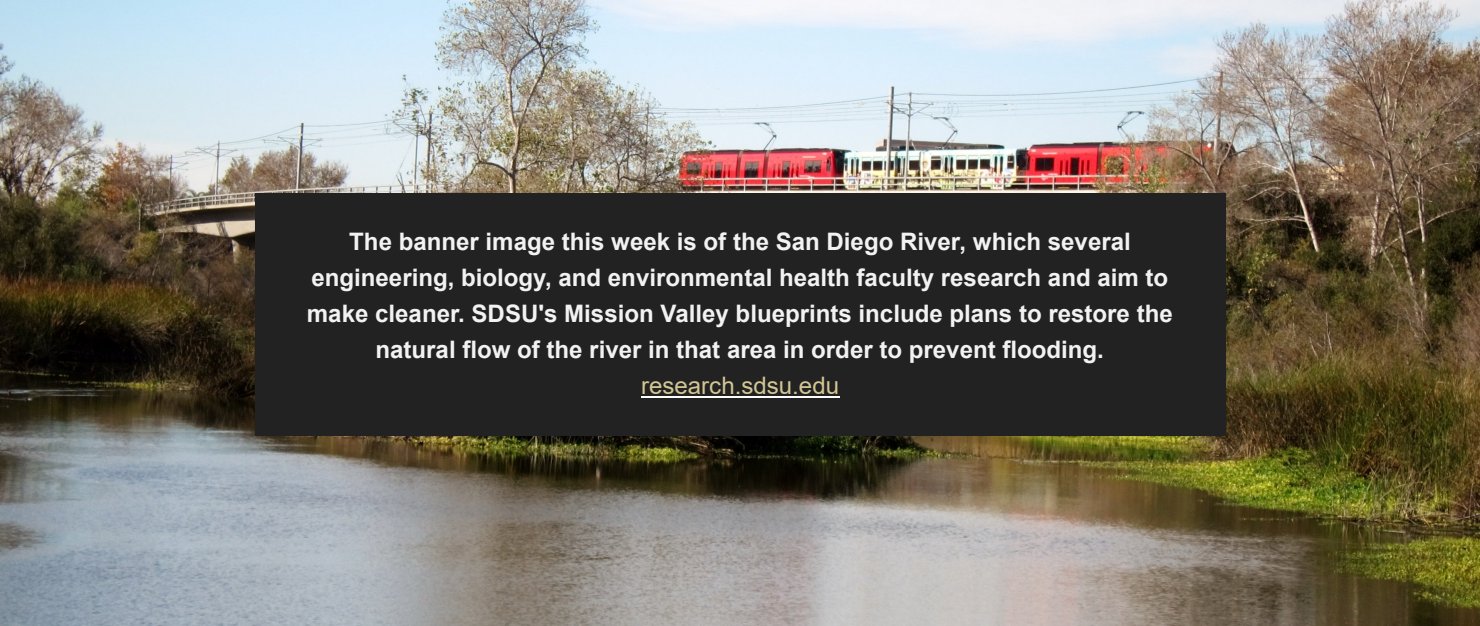
**Fishman, Inna**

Community Partnership to Evaluate Clinical Outcomes of Improv Theater  
Intervention for Teens with Autism  
University of California at San Diego  
\$15,000  
College of Sciences

**Jahangiri, Arash / Liu, Xiaobai / Ghanipoor-Machiani, Sahar**

Developing a Computer Vision-based Decision Support System for Intersection  
Safety Monitoring and Assessment of Vulnerable Road Users  
San Jose State University Foundation  
\$74,948  
Interdisciplinary Programs

Have suggestions for the newsletter? Email us.



The banner image this week is of the San Diego River, which several engineering, biology, and environmental health faculty research and aim to make cleaner. SDSU's Mission Valley blueprints include plans to restore the natural flow of the river in that area in order to prevent flooding.

[research.sdsu.edu](http://research.sdsu.edu)