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
“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 @SDSUResearch 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,
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](mailto: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 Women’s 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
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 Sciences

**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

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

Have suggestions for the newsletter? Email us.