

COLLEGE OF SCIENCES
Dr. Stanley Maloy, Dean

Office of the Dean

Dr. Catherine Atkins **Total: \$1,000**
University of California at San Diego: "*Institutional Research and Academic Career Development Award*," \$1,000

Dr. Catherine Atkins and Dr. Stanley Maloy **Total: \$350,756**
National Institute of General Medical Sciences: "*Maximizing Access to Research Careers*," \$350,756

Dr. Jose Castillo **Total: \$49,000**
San Diego State University: "*SDSU Bridge Funding*," \$49,000

Dr. Jose Castillo, Dr. Paul Paolini, and Dr. Catherine Atkins **Total: \$199,661**
National Institute of General Medical Sciences: "*SDSU Bridges to the Baccalaureate Program*," \$199,661

Dr. Giulietta Fargion **Total: \$87,338**
Columbia University: "*A Time Series of Sea Surface Nitrate and Nitrate Based New Production in the Global Oceans*," \$87,338

Dr. Lance Larson **Total: \$40,000**
University of Southern California: "*Panga Interdiction Predictive Model: A Risk/Behavior Based Model for Maritime Interdictions*," \$40,000



Commandant of the Coast Guard Admiral Paul F. Zukunft and Captain Jonathan S. Spaner with Dr. Eric Frost (second from left), Dr. Lance Larson, and other members of the Graduate Program in Homeland Security
Photo: United States Coast Guard
PI: Dr. Lance Larson

Dr. Stanley Maloy **Total: \$58,104**
Lakeside Union School District: "*IDEAS 2.0*," \$58,104

Dr. Estralita Martin **Total: \$45,250**
CSU Sacramento University Enterprises Inc.: "*CSU Louis Stokes Alliance for Minority Participation (LSAMP) Senior Alliance (2013-2018)*," \$30,250; "*CSU Louis Stokes Alliance for Minority Participation (LSAMP) Phase IV*," \$15,000

Dr. Patrick Shoemaker **Total: \$84,510**
U.S. Department of Defense Air Force Office of Scientific Research: "*Mechanisms for Spatiotemporal Visual Feature Detection in Insects*," \$84,510

Dr. Faramarz Valafar **Total: \$632,047**
National Institute of Allergy and Infectious Diseases: "*Evolutionary and Functional Significance of Novel Mutations in MDR-XDR TB*," \$632,047

Astronomy

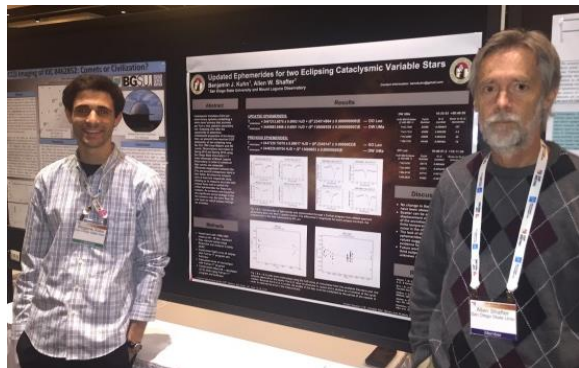
Dr. Robert Quimby **Total: \$49,500**

California Institute of Technology: "*GROWTH: Global Relay of Observatories Watching Transients Happen,*" \$7,500

National Aeronautics and Space Administration: "*Late-Time X-Rays from Superluminous Supernovae: How Hard Could it Be?*," \$27,000; "*Photometry of a Hydrogen-Rich Superluminous Supernova,*" \$15,000

Dr. Allen Shafter **Total: \$31,110**

Space Telescope Science Institute: "*A Remarkable Recurrent Nova in M31: The Leading Single Degenerate Supernova la Progenitor Candidate (?)*," \$31,110



Dr. Allen Shafter and student Ben Kuhn at the American Astronomical Society

Dr. William Welsh **Total: \$195,984**

National Aeronautics and Space Administration: "*Circumbinary Habitable Zone Planets,*" \$ 195,984"

Dr. William Welsh and Dr. Jerome Orosz **Total: \$333,750**

National Science Foundation: "*Triple-Star Dynamics and the Internal Structure of Low-Mass Stars,*" \$333,750

Biology

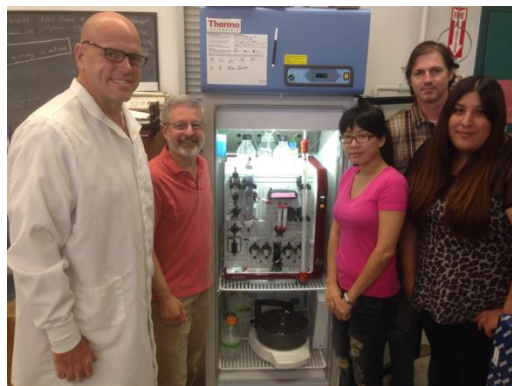
Dr. Todd W. Anderson **Total: \$9,963**

California Sea Grant College Program: "*Evaluating Potential Cascading Impacts of Sea Star Wasting Disease on Top-Down Grazer Regulation in Kelp Forests,*" \$9,963

Dr. Sanford Bernstein **Total: \$862,770**

National Institute of Arthritis and Musculoskeletal and Skin Diseases: "*Identification and Functional Analysis of UNC-45 Chaperone Partners in Muscle - D. Smith,*" \$54,194; "*Mechanism of Myosin Chaperone UNC-45: Structural, Functional and Genetic Approaches,*" \$317,688

National Institute of General Medical Sciences: "*Genetics and Molecular Biology of Striated Muscle Myosin,*" \$490,888



James Caldwell, Sanford Bernstein, Karen Hsu, Tom Huxford and Adriana Trujillo pictured with an AKTA fast protein liquid chromatography system.
PI: Dr. Sanford Bernstein

Dr. Ted Cranford **Total: \$253,200**
U.S. Department of Defense Naval Facilities Engineering Command: "*Jawphone Simulations to Maximize the Utility of Psychoacoustic and Auditory Evoked Potential (AEP) Experiments,*" \$253,200

Dr. Douglas Deutschman **Total: \$196,295**
San Diego Association of Governments: "*Rare Butterfly Monitoring and Research,*" \$196,295

Dr. Elizabeth Dinsdale **Total: \$22,590**
University of Nebraska: "*Research Coordination Network Undergraduate Biology Education (RCN-UBE): Network for Integrating Bioformatics into Life Sciences Education,*" \$22,590

Dr. Kelly Doran **Total: \$86,213**
National Institute of Allergy and Infectious Diseases: "*Development of a Probiotic Therapy for Limiting Group B Streptococcal Vaginal Carriage,*" \$75,000

Seattle Children's Hospital & Regional Medical Center: "*Research to Construct Group B Streptococcus (GBS) Mutants and Perform Future In Vitro Animal Experiments,*" \$11,213



Group B streptococcus
Photo: Doran lab
PI: Dr. Kelly Doran

Dr. Kim Finley **Total: \$297,280**
National Institute on Aging: "*Age-Dependent Regulation of Clearance and Signaling Pathways,*" \$297,280

Awards Received July 1, 2015 - June 30, 2016

Dr. Christopher Glembotski

Total: \$858,098

American Heart Association: "*ATF6 and the Adaptive ER Stress Response in the Ischemic Heart - J. Jin,*" \$42,000

Loyola University Chicago: "*Molecular Mechanism of Hypertrophic Cardiomyopathy in South Asian Descents,*" \$16,098

National Heart, Lung, and Blood Institute: "*Role of the SR/ER E3 Ubiquitin Ligase Synoviolin 1 in Cardiac Hypertrophy,*" \$750,000

Sharp Rees-Stealy Research Foundation: "*Rees-Stealy Research Foundation Fellowship Program,*" \$50,000



Dr. Chris Glembotski with postdoctoral fellow Dr. Jungkang Jin (left) and senior research specialist, Ms. Mare Marcinko
Photo: Lauren Radack
PI: C. Glembotski

Dr. Marshal C. Hedin

Total: \$41,500

National Science Foundation: "*DR:Phylogenomics and Biogeography of Early-diverging Laniatores (Opiliones),*" \$19,500; "*Speciation via Niche Conservatism in Relict Harvestmen Fellowship - Cabrero,*" \$22,000

Dr. Kevin Hovel

Total: \$5,000

National Science Foundation: "*NSF Graduate Research Internship Program 2015-16 – R. Dunn,*" \$5,000

Dr. Bruce Ito

Total: \$7,643

CT Research: "*Cardiac Functional Effects of Epicardial Stimulation,*" \$7,643

Dr. Linda Kelly and Dr. Forest Rohwer

Total: \$394,005

National Science Foundation: "*Collaborative Research: Dissolved Organic Matter Feedbacks in Coral Reef Resilience: The Genomic & Geochemical Basis for Microbial Modulation of Algal Phase Shifts,*" \$394,005

Dr. Scott Kelley

Total: \$48,048

University of Chicago: "*Mechanistic Modeling of Microbial Metabolic Succession in the Built Environment,*" \$48,048

Dr. Chun-Ta Lai

Total: \$80,360

USDA Forest Service: "*Analysis of CO2 Mixing Ratio Data from Forest Service Climate Tower Network,*" \$80,360

Dr. Rebecca Lewison

Total: \$557,094

California Department of Fish and Wildlife: "*Climate Resiliency Planning for the South Coast Ecoregion,*" \$250,000

Awards Received July 1, 2015 - June 30, 2016

National Aeronautics and Space Administration: *"EcoCast: Improving Ecological and Economic Sustainability of Marine Fisheries Using Remotely Sensed Oceanographic Data,"* \$103,474

San Diego Association of Governments: *"Comprehensive Multispecies Connectivity Assessment and Planning: Highway 67 Region,"* \$188,405

University of California at Santa Barbara: *"California Center for Excellence and Diversity in Team Science (CCREDITS),"* \$15,215

Dr. Phyllis-Jean Linton **Total: \$441,773**

Cedars-Sinai Medical Center: *"Mitochondrial Quality Control in Cardioprotection: Overcoming Co-Morbidities,"* \$441,773

Dr. Jeremy D. Long **Total: \$22,000**

National Science Foundation: *"What you Can't See CAN Hurt You: Interspecific Indirect Genetic Effects, Omnivores, and Salt Marshes Fellowship – S. Rinehart,"* \$22,000

Dr. Kathleen McGuire **Total: \$107,640**

University of Michigan: *"Inflammatory Differentiation of Colorectal Cancer Among African Americans,"* \$107,640

Dr. Girish C. Melkani **Total: \$468,530**

National Institute on Aging: *"Genetic Analysis and Regulation of Laminopathy Induced Cardiac Defects,"* \$468,530

Dr. John Mokili **Total: \$135,168**

University of Antwerp: *"Nodding Syndrome: A Trans-Disciplinary Approach to Identify the Cause and Decrease the Incidence of River Epilepsy,"* \$135,168



Dr. John Mokili (right) and assistant Quentin Menegazzi
PI: Dr. John Mokili

Dr. Walter Oechel **Total: \$54,875**

University of Montana: *"Satellite Data Driven Model Assessment of Landscape Variability and Environmental Controls on the Arctic-Boreal Carbon Budget,"* \$20,000

University of Southern California: *"Regional Mapping of Soil Conditions in Northern Alaska Permafrost Landscape Using AirMOSS and Land Model Data Assimilation, and Associated Impacts on Terrestrial Carbon Fluxes,"* \$34,875

Dr. Walter Oechel and Dr. Donatella Zona **Total: \$443,304**

NASA Jet Propulsion Laboratory: *"The Carbon in Arctic Reservoirs Vulnerability Experiment (CARVE),"* \$443,304

2015-2016 SDSU Awards Listing



Donatella Zona in Barrow during the melt of the sea ice in the Arctic Ocean

Photo:

PIs: Dr. Walter Oechel and Dr. Donatella Zona

Dr. Walter Oechel, Dr. Donatella Zona, and Dr. David Lipson **Total: \$544,695**

National Aeronautics and Space Administration: *"Temporal and Spatial Patterns of and Controls on Arctic and Boreal Forest CO₂ and CH₄ Fluxes in the ABoVE Domain,"* \$544,695

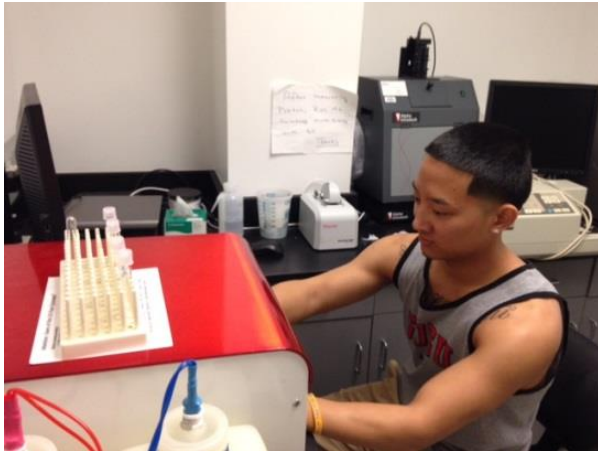
Dr. Paul Paolini and Dr. Jose Castillo **Total: \$14,797**

California Metabolic Research Foundation: *"The Neonatal Mammalian Cardiocyte as a Model for Studying Diabetes: RNA Sequence Analysis to Further Elucidate Gene Expression Patterns,"* \$14,797

Dr. Joy A. Phillips **Total: \$217,499**

National Institute of Allergy and Infectious Diseases: *"Neonatal Antibiotic Therapy, The Pulmonary Microbiome, and the Cholinergic Anti-Inflammatory Pathway,"* \$187,500

University of Nebraska Medical Center: *"EP67 - Based Targeted Mucosal Vaccines to Prevent Primary Infection with Cytomegalovirus (CMV),"* \$29,999

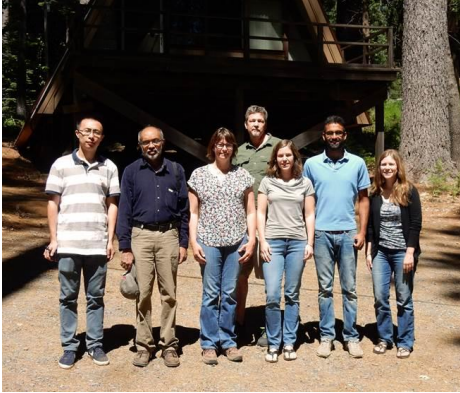


Undergraduate biology student Evan Cardani

Photo and PI: Dr. Joy Phillips

Dr. Tanya Renner **Total: \$284,175**

National Science Foundation: *"Collaborative Research: The Genetic Basis, Biosynthetic Pathways and Evolution of Geodaphgan Chemical Defense,"* \$284,175



Sihang Xu (Ph.D. student, Stevens Institute of Technology), Dr. Athula Attygalle (PI, Stevens Institute of Technology), Dr. Wendy Moore (PI, University of Arizona), Dr. Kipling Will (PI, UC Berkeley), Dr. Tanya Renner (PI, San Diego State University), Dr. Aman Gill (Postdoctoral Researcher, UC Berkeley), Reilly Mcmanus (Master's Student, University of Arizona).
Photo: Dr. Kipling Will
PI: Dr. Tanya Renner

Dr. Forest Rohwer

Total: \$1,314,254

National Science Foundation: "*Bioenergetic Dynamics of Genomic Evolution in Alphaproteobacteria-Fellowship T. Roach*," \$20,645; "*PIRE: Assembly of Marine Biodiversity Along Geographic and Anthropogenic Stress Gradients*," \$1,214,659

Pew Charitable Trusts: "*Proposal to Examine the Linkages between Sharks and Coral Reef Health*," \$78,950

Dr. Nicholas Shikuma

Total: \$106,455

U.S. Department of Defense Office of Naval Research: "*The Role of Phage Tail-Like Structures in Tubeworm Metamorphosis*," \$106,455

Dr. Mark Sussman

Total: \$1,648,244

American Heart Association Western States Affiliate: "*Chromatin Content of Cardiac Progenitor Cells Influence on Repair and Regenerative Potential in the Heart - K. Broughton*," \$98,950

National Heart, Lung and Blood Institute: "*Beta-Adrenergic Signaling: Double-edged Sword of Myocardial Repair*," \$373,750; "*Cardioprotection By Optimizing mTOR Activity*," \$373,750; "*Empowering Cardiac Progenitor Cell-Mediated Repair of Injured Myocardium by Overexpressing P2Y2 Nucleotide Receptor -Farid Elsayed*," \$54,294; "*Enhanced Myocardial Repair with CardioClusters and CardioChimeras*," \$373,750; "*Stem Cell Signaling in the Pathologically Challenged Myocardium*," \$373,750

Dr. Kathy Williams

Total: \$72,856

U.S. Department of the Interior United States Geological Survey: "*Arthropod Prey Availability in Cactus Wren Territories in San Diego County*," \$72,856

Dr. Xiaofeng Xu

Total: \$75,001

U.S. Department of Energy Oak Ridge National Laboratory: "*Data-Model Integration for CH₄ Flux in Temperate and Arctic Regions*," \$75,001



Dr. Xu's ecological modeling and integration lab is developing a model to help understand how our terrestrial ecosystems respond to future climate conditions.

Photo and PI: Dr. Xiaofeng Xu

Dr. Ricardo Zayas

Total: \$140,000

National Science Foundation: "*CAREER: Functional Analysis of Ubiquitin-Mediated Pathways Controlling Stem Cell Fate and Tissue Regeneration*," \$140,000

Dr. Robert Zeller

Total: \$300,000

National Science Foundation: "*Pou4 Function in an Invertebrate Chordate*," \$300,000

Mr. Thomas A. Zink

Total: \$1,077,057

U.S. Department of Defense Army Corps of Engineers: "*Natural Resources Studies in Navy Region Southwest*," \$42,448; "*San Clemente Island Botanical Program Implementation (Including: Seed Collection and Propagation, Site Selection, Out-Planting, and Maintenance; and Erosion Control)*," \$653,157

U.S. Department of Defense Naval Facilities Engineering Command: "*Development and Implementation of Eradication and Monitoring Methodologies of the Argentine Ant (Linepithema Humile) on Naval Base Coronado, Naval Auxiliary Landing Field, San Clemente Island, CA*," \$381,452

Chemistry & Biochemistry

Dr. Bernt Mikael Bergdahl

Total: \$12,000

MyChem LLC: "*Consulting Agreement October 2013*," \$12,000

Dr. Carl Carrano

Total: \$207,459

National Science Foundation: "*NSF - Intergovernmental Personnel Act (IPA)*," \$207,459



NSF Chemistry of Life Processes Program Directors Carl J. Carrano (left) and David Rockcliffe (right) talk to young faculty members/postdocs at the 2016 NSF Chemistry Early Career Investigator workshop
Photo: Richard Johnson
PI: Dr. Carl Carrano

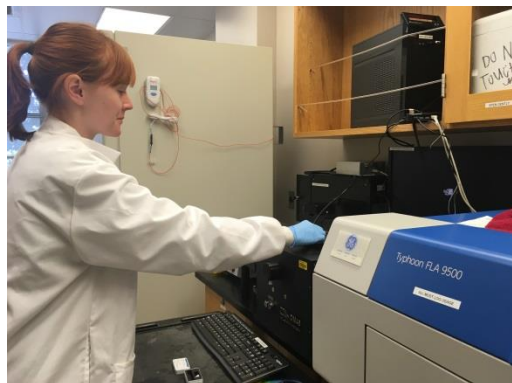
Awards Received July 1, 2015 - June 30, 2016

Dr. Christopher Harrison **Total: \$124,966**
Partnership for Clean Competition: "*Electrophoretic Screening for Autologous Blood Transfusions,*" \$124,966

Dr. Gregory P. Holland **Total: \$202,428**
U.S. Department of Defense: "*Spider's Silk: From Protein-rich Gland Fluids to Diverse Biopolymer Fibers,*" \$202,428

Dr. Tom Huxford **Total: \$52,382**
University of Nebraska Medical Center: "*Development of Quinoxaline Based IKKbeta Inhibitors for Kras Driven Cancers,*" \$52,382

Dr. Christal D. Sohl **Total: \$260,213**
National Cancer Institute: "*The Molecular Mechanism of Isocitrate Dehydrogenase (IDH) Mutations in Cancer,*" \$260,213



Undergraduate Madison Kennedy explores the fluorescence properties of IDH catalysis to better understand how mutations in this enzyme lead to cancer.
Photo and PI: C. Sohl

Dr. William Stumph **Total: \$106,224**
California Metabolic Research Foundation: "*Arne N. Wick Predoctoral Research Fellowship of Spencer Swarts,*" \$38,224; "*Enzyme Regulation, Lipid and Carbohydrate Metabolism,*" \$68,000

Dr. Manal A. Swairjo **Total: \$724,738**
National Institute of General Medical Sciences: "*RNA Modification: Structure and Mechanism,*" \$677,059

Portland State University: "*Mechanism and Structure in an Enzyme Superfamily,*" \$47,679

Dr. William Tong and Dr. Sanford Bernstein **Total: \$522,435**
National Institute of General Medical Sciences: "*SDSU Minority Biomedical Research Initiative for Maximizing Student Development (IMSD) Support Program,*" \$522,435

Computer Science

Dr. Robert Edwards **Total: \$432,257**
National Science Foundation: "*Experimental and Computational Determination of Microbial Genotypes and Phenotypes,*" \$250,000

U.S. Department of Engineering Lawrence Livermore National Laboratory: "*Bacteriophage Genome Finishing and Phage Annotation Toolkit Evaluator (PhATE I) Development,*" \$182,257

Dr. Marie Roch **Total: \$423,131**
Oregon State University: "*Advanced Methods for Passive Acoustic Detection, Classification, and Localization of Marine Animals,*" \$25,844

Awards Received July 1, 2015 - June 30, 2016

University of California at San Diego: *"Passive Acoustic Monitoring and Data Analysis for Pacific Fleet (PACFLT),"* \$100,000

U.S. Department of Defense Naval Facilities Engineering Command: *"Acoustic Metadata Management for Navy Fleet Operations,"* \$170,033

U.S. Department of Defense Office of Naval Research: *"Unsupervised Learning (Clustering) of Odontocete Echolocation Clicks,"* \$127,254



Group of common dolphins (mother and calf in foreground) in the Southern California Bight
Photo and PI: Marie Roch

Dr. Bing Zhu and Dr. Jose Castillo

Total: \$11,486

The Henry Ford: *"Web Archiving Service,"* \$11,486

Geological Science

Dr. John Crockett

Total: \$184,132

U.S. Department of Defense Space and Naval Warfare Systems Command: *"Environmental Research for Microbial Fuel Cell Improvement,"* \$99,992; *"Puget Sound Naval Shipyard & Intermediate Maintenance Facility (PSNS & IMF) Ambient Monitoring Toxicity Testing Support,"* \$59,270; *"Qualitative and Quantitative Analyses of Pathogenic Bacteria Post-Microbial Fuel Cells (MFC) Technology Treatment,"* \$24,870

Dr. Eric G. Frost

Total: \$15,000

California Seismic Safety Commission: *"Education and Outreach Web Site Development,"* \$15,000

Dr. Barry Hanan

Total: \$13,600

National Science Foundation: *"Collaborative Research: An Isotopic and Trace Element Study of Links Between Source Heterogeneity and Mantle Melting Beneath the Southeast Indian Ridge,"* \$13,600

Dr. Shuo Ma

Total: \$10,000

University of Southern California: *"A Collaborative Project: Rupture Dynamics, Validation of the Numerical Simulation Method,"* \$10,000

Dr. Jillian M. Maloney

Total: \$91,000

University of Southern California: *"Development of a High-Frequency 3D Pseudo-Dynamic Rupture Generator for Geometrically Complex Faults Part 2,"* \$28,000; *"Next Generation SDSU BBP Module Validation,"* \$25,000; *"Paleoseismic Investigation of the Rose Canyon Fault Zone, San Diego, CA,"* \$20,000; Louisiana State University: *"Mass Wasting Processes and Products of the Mississippi Delta Front: Synthesis and Observation,"* \$18,000

Dr. Kim Olsen

Total: \$185,184

Exxon Mobil Research and Engineering Company: *"Exxon-Mobil Exploration Global Geoscience Recruiting - W.Savran,"* \$5,000

Awards Received July 1, 2015 - June 30, 2016

U.S. Department of Defense Air Force Research Laboratory: "*3D Regional Wave Propagation with $Q(f)$ in East Asia for North Korea Nuclear Tests,*" \$62,655

University of Southern California: "*Community Computational Platforms for Developing Three-Dimensional Models of Earth Structure, Phase II,*" \$40,529; "*Community Software for Extreme-Scale Computing in Earthquake System Science,*" \$77,000

Dr. Thomas Rockwell

Total: \$87,100

AMEC Foster Wheeler: "*Radiocarbon Dating of Samples Collected During Various Consulting Projects,*" \$19,600

University of Southern California: "*Collaborative Proposal: Paleoseismology and Mechanics of Multi-Fault Ruptures,*" \$20,000; "*Crustal Architecture of the Western Transverse Ranges, Southern California,*" \$25,000; "*Magnitude-Frequency Estimates From Paleoseismic Data Using the Stringing Pearls Methodology, San Andreas-San Jacinto Fault System,*" \$8,000; "*Modeling Rupture through the Brawley Seismic Zone Stepmover: Can Ruptures Propagate between the San Andreas and Imperial Faults?,*" \$7,000; "*Testing the Shorter and Variable Recurrence Interval Hypothesis Along the Cholame Segment of the San Andreas Fault,*" \$7,500



Dr. Thomas Rockwell on a high terrace studying the Cristianitos fault with San Juan Creek drainage in the background (southern Orange County)

Photo: Chris Goetz

PI: T. Rockwell

Dr. Thomas Rockwell and Dr. Monte L. Murbach

Total: \$84,608

U.S. Department of the Interior United States Geological Survey: "*Mid to Late Holocene Rupture History of the Rose Canyon Fault in San Diego, California,*" \$84,608

Dr. Daniel Roten, Dr. Steven Day, and Dr. Kim Olsen

Total: \$40,000

University of Southern California: "*Accuracy of Drucker-Prager Yield Condition in Nonlinear Attenuation of Surface Waves,*" \$20,000; "*Fault Zone Plasticity and Shallow Slip Deficit from 3D Nonlinear Dynamic Rupture Simulations,*" \$20,000

Dr. Zheqiang Shi **Total: \$29,000**
University of Southern California: *"3D Numerical Simulations of Dynamic Rupture Along the San Gorgonio Pass Section of the San Andreas Fault Using Southern California Earthquake Center (SCEC) Community Fault Model (CFM) and Community Stress Model (CSM),"* \$29,000

Mathematics & Statistics

Dr. Juanjuan Fan **Total: \$38,903**
Kaiser Permanente Medical Center: *"Constructing Risk Calculators Using Random Forest,"* \$38,903

Dr. Jerome Gilles **Total: \$52,356**
U.S. Department of Defense Air Force Office of Scientific Research: *"Restoring Algorithms for Imaging through Atmospheric Turbulence,"* \$52,356

Dr. Joanne Lobato **Total: \$29,717**
Art of Problem Solving: *"Research Assistantship D. Quarfoot,"* \$7,717
National Science Foundation: *"A Controlled Trial of Active Versus Passive Learning Strategies: An Exploration of Online Precalculus Course Design - Fellowship M. Voigt,"* \$22,000

Dr. Shuo Ma **Total: \$30,000**
University of Southern California: *"Numerically Testing Two Approaches of Extracting the Amplitudes of Ambient-Field Green's Functions in the SCEC CVM-S4.26,"* \$30,000

Dr. Ricardo Nemirovsky **Total: \$327,122**
National Science Foundation: *"InforMath: Mathematics to Enrich Learning Experiences in Science and Art Museums,"* \$327,122

Dr. Antonio Palacios **Total: \$128,381**
U.S. Department of Defense Office of Naval Research: *"Complexity and Scaling Laws of Phase Drift in Symmetric Networks of Crystal Oscillators for Precision Timing,"* \$99,999
U.S. Department of Defense Space and Naval Warfare Systems Command: *"Synchronization of Nonlinear Oscillators and Nonlinear Signal,"* \$28,382

Dr. Vadim Ponomarenko **Total: \$326,654**
National Science Foundation: *"REU Site: San Diego State University Mathematics Research Experience for Undergraduates,"* \$326,654



Mathematics Research Experience for Undergraduates students on the first day of their eight week program
Photo and PI: Dr. Vadim Ponomarenko

Dr. Chris Rasmussen **Total: \$49,974**
National Science Foundation: *"Exploring the Role of Instructors Social Networks in Undergraduate STEM Instructional Improvement,"* \$49,974

Dr. William Zahner **Total: \$234,970**
National Science Foundation: *"CAREER: Fostering Productive and Powerful Discussions among Linguistically Diverse Students in Secondary Mathematics,"* \$168,486
SRI International: *"Investigating How English Language Learners use Dynamic Representational Technology to Participate in Middle School Mathematical Practices,"* \$66,484

Physics

Dr. Calvin Johnson **Total: \$120,000**
University of North Carolina-Chapel Hill: "*Nuclear Theory for Double-Beta Decay and Fundamental Symmetries*," \$25,000

U.S. Department of Energy: "*Nuclear Structure and Transitions: Computational Studies and Resources*," \$95,000

Dr. Milton Torikachvili **Total: \$41,000**
U.S. Department of Energy Lawrence Livermore National Laboratory: "*F-Electron Quantum Materials*," \$41,000

Dr. Fridolin Weber **Total: \$84,901**
National Science Foundation: "*Astrophysical Studies of Quark Deconfinement*," \$84,901

Psychology

Dr. Nader Amir **Total: \$30,300**
National Institute of Mental Health: "*Behavioral and Neurobiological Mechanisms of Treatment Response in Pediatric Obsessive-Compulsive Disorder (OCD) - J. Kuckertz*," \$30,300

Dr. Aaron Blashill **Total: \$371,652**
National Institute of Mental Health: "*Body Image and Self-Care in HIV-Infected Men Who Have Sex with Men (MSM)*," \$371,652

Dr. Susan Brassler **Total: \$172,780**
National Institute on Alcohol Abuse and Alcoholism: "*Insular Cortical Processing in Alcohol Addiction*," \$172,780

Dr. Thereasa Cronan and Dr. Claire Murphy **Total: \$360,489**
National Institute on Aging: "*SDSU Advancing Diversity in Aging Research (ADAR) Undergraduate Education Program*," \$360,489

Dr. Amy M. Drahota **Total: \$185,329**
National Institute of Mental Health: "*Developing the Autism Model of Implementation for Autism Spectrum Disorders (ASD) Community Providers*," \$185,329

Dr. Mark Ehrhart **Total: \$181,546**
University of California at San Diego: "*Methods Study of Evidence-Based Practice (EBP) Sustainment in a Statewide Service System*," \$116,434; "*Testing the Leadership and Organizational Change for Implementation (LOCI) Intervention in Substance Abuse Treatment*," \$65,112

Dr. Inna Fishman **Total: \$392,186**
National Institute of Mental Health: "*Multimodal Imaging of Early Neural Signature in Autism Spectrum Disorder*," \$392,186

Dr. Margaret Friend **Total: \$34,627**
National Institute of Child Health and Human Development: "*Investigating Lexical Structure in Monolingual and Bilingual Spanish-Speaking Children in the U.S. - S. De Anda*," \$34,627

Dr. Linda Gallo **Total: \$411,447**
Michigan State University: "*Study of Latinos-Investigation of Neurocognitive Aging (SOL-INCA)*," \$379,674

The Scripps Research Institute: "*Scripps Translational Science Institute*," \$31,773

Dr. Linda Gallo and Dr. Scott Roesch **Total: \$203,403**
Scripps/Whittier Institute for Diabetes: "*Medical Assistant Health Coaching for Diabetes in Diverse Primary Care Settings*," \$203,403

Awards Received July 1, 2015 - June 30, 2016

Dr. Phillip J. Holcomb

Total: \$63,429

National Institute on Deafness and Other Communication Disorders: *"Investigating the Neural Dynamics of Single-Word Reading in Deaf Readers - Fellowship L. Schwarz-Glezer,"* \$63,429



A participant during electroencephalography (EEG) data collection

Photo: Katherine Midgley
PIL Phillip Holcomb

Dr. Phillip J. Holcomb and Dr. Katherine Midgley

Total: \$495,656

National Institute of Child Health and Human Development: *"The Neuro-Cognition of Word Comprehension,"* \$495,656

Dr. Alan Litrownik

Total: \$111,505

University of Maryland: *"Drug Use Trajectories and the Transition to Adulthood Among Maltreated Youth,"* \$111,505

Dr. Vanessa Malcarne

Total: \$163,372

Jewish General Hospital: *"Body Image Distress in Systemic Sclerosis,"* \$21,994

National Cancer Institute: *"Predictors of Cancer Risk Behaviors Among Hispanic Americans - Fellowship S. Mills,"* \$32,065

Regents of the University of California: *"Creating Scientists to Address Cancer Disparities Program,"* \$65,270

University of California at San Diego: *"Coping with Cancer: A Program for the Deaf Community in American Sign Language,"* \$44,043

Dr. Ksenija Marinkovic

Total: \$438,013

National Institute on Alcohol Abuse and Alcoholism: *"Spatiotemporal Brain Imaging of Alcohol Effects on Inhibitory Control,"* \$438,013

Dr. Georg Matt

Total: \$18,094

Cincinnati Childrens Hospital: *"An Intervention to Reduce Second-Hand Smoke Exposure among Pediatric Emergency Patients,"* \$10,694

Mary Dawson: *"Thirdhand Smoke in a Newport Beach Home of Long-term Heavy Smoker,"* \$7,400

Dr. Sarah Mattson

Total: \$817,461

Children's Hospital Los Angeles: *"Mapping the Brain, the Face, and Neurocognitive Function in Fetal Alcohol Spectrum Disorders,"* \$170,646

National Institute on Alcohol Abuse and Alcoholism: *"A Multisite Neurobehavioral Assessment of Fetal Alcohol Spectrum Disorders,"* \$612,055; *"Mechanisms of Reading-Related Dysfunction in Fetal Alcohol Spectrum Disorders-L. Glass,"* \$34,760

Awards Received July 1, 2015 - June 30, 2016

Dr. Ralph-Axel Mueller **Total: \$1,324,038**

National Institute of Mental Health: *"Integrity and Dynamic Processing Efficiency of Networks in Autism Spectrum Disorders (ASD),"* \$620,386; *"The Autistic Brain Over 45: The Anatomic, Functional, and Cognitive Phenotype,"* \$703,652

Dr. Joseph Price **Total: \$187,431**

Oregon Social Learning Center, Inc.: *"Teens' Risk During Transition: Preventing Drug Use, HIV, and School Problems,"* \$84,320

University of California at San Diego: *"System of Care Evaluation (SOCE),"* \$103,111

Dr. Edward Riley **Total: \$1,008,061**

National Institute on Alcohol Abuse and Alcoholism: *"Administrative Core of the CIFASD,"* \$755,809; *"Alcohol Research in the Science/Practitioner Model,"* \$230,252

National Science Foundation: *"Neuropsychological and Neuroanatomical Underpinnings of Inhibitory Control in Fetal Alcohol Spectrum Disorders -R. Migliorini,"* \$22,000

Dr. Edward Riley and Dr. Jennifer Thomas **Total: \$74,000**

National Institute on Alcohol Abuse and Alcoholism: *"TSBRA Congress Support,"* \$74,000

Dr. Vanessa Robin Weersing **Total: \$337,137**

National Institute of Mental Health: *"2/2-Family Cognitive Behavioral Prevention of Depression in Youth and Parents,"* \$337,137

Dr. Scott Roesch **Total: \$132,196**

University of California at Los Angeles: *"Sustainment of Multiple Evidence-Based Practice's (EBP's) Fiscally Mandated in Children's Mental Health Services,"* \$14,036

University of California at San Diego: *"Effectiveness and Implementation of a Mental Health Intervention for Autism Spectrum Disorders (ASD),"* \$93,446; *"Impact of Privacy Environments for Personal Health Data on Patients,"* \$24,714

Dr. Rachel H. Schlager **Total: \$62,209**

University of California at San Diego: *"Training Community Providers to Implement an Evidence-based Early Intervention Program,"* \$62,209

Dr. Dustin B. Thoman **Total: \$649,007**

National Science Foundation: *"Understanding the Role of Cultural and Career Purpose Orientations in Underrepresented Minority Science Student Success,"* \$649,007



Research assistants recruit focus group participants to discuss what motivates and challenges persistence in science majors

Photographer: Christina Curti

PI: Dr. Dustin Thoman

Dr. Jennifer Thomas

Total: \$346,933

National Institute on Alcohol Abuse and Alcoholism: "*Fetal Alcohol Effects and Choline Intervention,*" \$326,283; "*Fetal Alcohol Spectrum Disorders Study Group Annual Meeting,*" \$20,650

Dr. Vanessa Robin Weersing and Dr. Nader Amir

Total: \$256,166

Kaiser Foundation Research Institute: "*Effectiveness Trial of Cognitive Bias Modifications (CBM) for Adolescent Anxiety,*" \$256,166