

University of South Carolina — June 2021 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	<i>Environmental Health Sciences</i>				
		<i>Cai, Guoshuai</i>	<i>VA Headache Center of Excellence (HCoE) subaward</i>	WJB Dorn, VA Medical Center	\$ 26,899
		<i>Norman, Robert</i>	<i>South Carolina SARS-CoV-2 Wastewater Surveillance</i>	SC Department of Health & Environmental Control (DHEC)/CDC	\$ 132,709
	<i>Exercise Science</i>				
		<i>Sarzynski, Mark</i>	<i>Biochemical profiling to identify cardiometabolic responsiveness to an endurance exercise intervention - Sub-contract with Beth Israel Deaconess Medical Center</i>	Beth Israel Deaconess Medical Center/NIH	\$ 512,157
			<i>Molecular Foundations of Lipoprotein Response to Exercise - Jacob Barber, Doctoral Student</i>	American Heart Association (AHA)	\$ 63,040
		<i>Yeargin, Susan</i>	<i>The Effect of Proprietary Water on Physiological and Perceptual Responses in a Heat Stressful Environment</i>	HydraVes Technologies, Inc.	\$ 286,376
	<i>Health Prom., Educ. & Behavior</i>				
		<i>Friedman, Daniela</i>	<i>For the Purchase and Provision of Education, Training, and Management of the Alzheimer's Disease Registry</i>	SC Department of Health and Human Services/HHS	\$ 1,038,813
	<i>Health Services Policy & Mgmt</i>				
		<i>Hair, Nicole</i>	<i>How Changing Neighborhood and School Contexts Shape Mental Health and Educational Attainment from Childhood to Early Adulthood</i>	Brown University/Spencer Foundation	\$ 59,869
		<i>OLATOSI, BANKOLE</i>	<i>Patterns and predictors of viral suppression: A Big Data approach</i>	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	\$ 3,557,900
	<i>PASOS</i>				
		<i>Martin, Maria</i>	<i>PASOs Health Connections to improve COVID-19 Vaccine Education and Access for SC Latinx Communities</i>	UofSC Educational Foundation/CDC Foundation	\$ 65,000
College of Arts and Sciences					
	<i>Archaeology & Anthropology</i>				
		<i>Smith, Steven</i>	<i>Archsite Mapping of Revolutionary War Sites</i>	SC Department of Transportation (SCDOT)/FHWA	\$ 24,306
			<i>Goodwill Plantation Archaeological Survey FY22</i>	SC Department of Natural Resources (SCDNR)	\$ 99,420
	<i>Baruch Institute</i>				
		<i>Smith, Erik</i>	<i>North Inlet - Winyah Bay National Estuarine Research Reserve FY21 Operations Award</i>	National Ocean Service (NOS)/NOAA/DOC	\$ 776,791
	<i>Biological Sciences</i>				
		<i>Patel, Rekha</i>	<i>Investigating PKR inhibitory activity of chemical compounds provided by Protekt Therapeutics using biochemical and cell-based assays.</i>	Protekt Therapeutics Ltd.	\$ 6,982

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		<i>Stratmann, Johannes</i>	<i>EAGER: Novel approaches to study green leaf volatile perception</i>	National Science Foundation (NSF)	\$ 299,795
		<i>Twiss, Jeffery</i>	<i>Destabilization of axonal mRNAs by KHSRP complexes controls axon regeneration</i>	National Institute of Neurological Disorders and Stroke (NINDS)/NIH	\$ 2,003,174
		<i>Wessinger, Carolyn</i>	<i>The contribution of introgression to convergent floral evolution in Penstemon</i>	National Science Foundation (NSF)	\$ 953,034
	<i>Chemistry & Biochemistry</i>				
		<i>Tang, Chuanbing</i>	<i>ACS Project SEED 2021 - Virtual Research Pilot Project</i>	American Chemical Society	\$ 2,000
		<i>Wang, Hui</i>	<i>Characterization of the Physicochemical and Catalytic Properties of CNM-Au8</i>	Clene Nanomedicine, Inc.	\$ 75,767
	<i>History</i>				
		<i>Kuenzli, Elisabeth</i>	<i>Jockeying into Position: Race, Ethnicity, and the Rise of the Latino Jockey in the American South, XX-XXI Centuries</i>	American Council of Learned Societies (ACLS)	\$ 92,000
	<i>Physics & Astronomy</i>				
		<i>Avignone, Frank</i>	<i>EAGER-New Search Technique for keV Sterile Neutrinos</i>	National Science Foundation (NSF)	\$ 108,473
		<i>Schindler, Matthias</i>	<i>Fundamental Symmetries and Nucleon Interactions</i>	US Department of Energy (DOE)	\$ 306,000
	<i>Psychology</i>				
		<i>Weist, Mark</i>	<i>Reducing Racial Educational and Behavioral Disparities Through Teacher Unconscious Bias Training</i>	MUSC/William T Grant Foundation	\$ 47,641
	<i>School of Earth, Ocean & Env.</i>				
		<i>Scher, Howard</i>	<i>Collaborative Research: US GEOTRACES GP17-ANT: Constraining the Neodymium (Nd) Isotope and Rare Earth Element Cycles near the Amundsen Sea Continental Margin</i>	National Science Foundation (NSF)	\$ 462,039
<i>College of Education</i>					
	<i>Educ. Leadership & Policies</i>				
		<i>Yao, Christina</i>	<i>From 'Cash Cows' to 'Yellow Peril': Examining the Positioning of Asian International Students in the United States in Contentious Times</i>	Spencer Foundation	\$ 44,294
<i>College of Engineering & Comp.</i>					
	<i>Civil & Environmental Eng.</i>				
		<i>Qian, Yu</i>	<i>Quantitative Assessment of the Influence of Drainage on Track Support</i>	Federal Railroad Administration/DOT	\$ 384,999
		<i>Ziehl, Paul</i>	<i>Field Trials for Cost-Effective Strengthening of SC Load Posted Bridges</i>	SC Department of Transportation (SCDOT)/FHWA	\$ 875,000
	<i>Computer Science & Engineering</i>				
		<i>Sheth, Amit</i>	<i>EAGER: Advancing Neuro-symbolic AI with Deep Knowledge-infused Learning</i>	National Science Foundation (NSF)	\$ 139,999

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		Tang, Jijun	Adventures in Computer Gaming: Programming Outreach through Game Design (William Hobbs)	College of Charleston/SC Space Grant Consortium/NASA EPSCoR	\$ 6,000
	Electrical Engineering				
		Ahmad, Iftikhar	Achieving High Efficiency in Deep Ultraviolet Light Emitters Using Boron Nitride	Southeastern Center For Electrical Engineering Education (SCEEE)	\$ 27,500
		Wang, Guoan	Quantum Field Communications	NanoMEMS Research, LLC/NASA	\$ 29,560
	Mechanical Engineering				
		Banerjee, Sourav	Ultrasonic Energy Interaction with Composite Damage in Both Frequency and Time Domains	Advent Innovations Limited Company/NASA	\$ 31,000
			AI-driven Robotic Planting, Placement and Removal of Stakes on Ground for Plants with Weak Stem	SC Department of Agriculture (SCDA)	\$ 120,000
		Bayoumi, Abdel	Proactive and Automated Material Control -- BMW	BMW	\$ 239,809
		Chen, Fanglin	Efficient CO2 and Natural Gas Refinery for Ethylene Production	US Department of Energy (DOE)/DOT	\$ 2,000,000
		Harik, Ramy	Undergraduate Student Research Awards: Devon Clark, Steve Howard, Nicklaus Johnson, Adam Quin, Drew Sander, Noah Swingle, Kevin Zimovan	College of Charleston/NASA (EPSCoR)	\$ 52,500
		Li, Chen	Understanding the Gravity Effect on Flow Boiling Through High-Resolution Experiments and Machine Learning	Center for the Advancement of Science in Space (CASIS)/NSF	\$ 400,000
		Wang, Yi	Parametric Reduced Order Models-based Uncertainty Quantification in Aeroelasticity	CFD Research Corporation/NASA	\$ 36,982
College of Information & Comm.					
	Journalism & Mass Comm.				
		Xiao, Anli	Exploring the Impact of Corporate Social Advocacy Campaigns on Collective Action: A Two-Part Study of Identity	The Arthur W. Page Center, College of Communications/Penn State University	\$ 2,500
College of Nursing					
	Nursing				
		Harmon, Carolyn	Unintended Consequences of the EHR and Cognitive Load in ED Nurses	Emergency Nurses Association (ENA) Foundation/Sigma	\$ 6,000
		Raynor, Phyllis	P.A.R.E.N.T.S.S. Project - Parents Adopting Recovery Management through New Technology for Self-Care and Support (for Mothers)	National Institute on Drug Abuse (NIDA)/NIH	\$ 881,355
		Ribar, Alicia	Nurse Faculty Loan Program FY2021	Health Resources & Services Administration (HRSA)/HHS	\$ 155,916

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College of Pharmacy					
	Drug Discovery & Biomed Sci.				
		Kiaris, Hippokratis	Sustaining the operation of the Peromyscus Genetic Stock Center	National Science Foundation (NSF)	\$ 1,069,578
		McInnes, Campbell	Development of non-ATP competitive chemical biology probes to elucidate mechanisms of PLK1 activation and stability.	National Cancer Institute (NCI)/NIH	\$ 275,000
		Sahin, Ozgur	Inhibiting tumor growth and metastasis in highly aggressive breast cancers with centrosome amplification	National Cancer Institute (NCI)/NIH	\$ 1,693,971
Division of Student Affairs					
	Substance Abuse and Prevention				
		Hourigan, Aimee	Collegiate Community Recovery Programs	SC Department of Alcohol & Other Drug Abuse Services (SC DAODAS)	\$ 561,547
Law Enforcement & Safety					
	Law Enforc. & Safety				
		Culp, Erin	2020 BulletProof Vest Partnership Award	Office of Highway Safety and Justice Programs (OHSJP)/SCDPS/DOJ	\$ 2,190
School of Medicine					
	Basic Science Research				
		Ryan, Michael	Placental ischemia, hypertension, and hemodynamics	University of Mississippi Medical Center (UMMC)/NIH	\$ 54,861
	Cell Biology & Anatomy				
		Brennan, Emily	Histories of Stress: A Life Course Approach to Population Health in Late Medieval and Early Modern Berlin	SC Research Foundation (SCRF)/Rust Family Foundation	\$ 5,683
		Potts, Jay	Generation of Bioactive analogs of a neuropeptide, (a-CGRP) and its implications in cardiovascular diseases	SC Research Authority (SCRA)	\$ 15,000
			Commercialization of a novel drug delivery system for treating heart disease	University of Arkansas/Chancellor's Innovation Fund	\$ 30,000
		yin, rong	IPA: Rong Yin	WJB Dorn VA Medical Center / VA	\$ 47,914
	Internal Medicine				
		Weissman, Sharon	Housing First Program for Persons with Disabilities	City of Columbia	\$ 229,500
			Emergency Solutions Grant - CV Phase II	SC Research Foundation (SCRF)/SC Office of Economic Opportunity (OEO)/HUD	\$ 251,655
	Neuropsychiatry				
		Childers, Casey	Communities of Care Evaluation	SC Dept of Mental Health/SC BCBS Foundation	\$ 85,000

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	<i>Radiology</i>				
		<i>Bell, Floyd</i>	<i>Ultrasound Training for Rural Health Providers</i>	SC Center for Rural and Primary Healthcare (SC CRPH)/SCDHHS	\$ 96,000
<i>University of SC Aiken</i>					
	<i>AK Biology & Geology</i>				
		<i>Ramstad, Kristina</i>	<i>Not all who wander are lost – Testing for genes associated with migratory behavior in a peripatetic species</i>	National Science Foundation (NSF)	\$ 199,926
<i>University of SC Beaufort</i>					
	<i>BFT Math & Comp. Science</i>				
		<i>Sevim, Volkan</i>	<i>Math Opportunities in the Summer (MOS): USCB Summer Math Camp for High School Students</i>	Community Foundation of the Lowcountry	\$ 33,075
<i>University of SC Salkehatchie</i>					
	<i>Salkehatchie</i>				
		<i>All, Jessica</i>	<i>WORC I Renewal Grant</i>	SRS Community Reuse Organization (SRSCRO)/NNSA/DOE	\$ 549,656
<i>University of SC Upstate</i>					
	<i>UPS Lang, Literature & Comp.</i>				
		<i>Marlow, David</i>	<i>USC Upstate Fulbright Hays Group Projects Abroad - Indigenous and Disenfranchised Persons in Central America and the U.S.: A cross-cultural comparison of language, cultural identity, and educational structures in support of diversity-enriched pedagogy</i>	US Department of Education (USDE)	\$ 99,973
	<i>UPS Nursing</i>				
		<i>Kennedy, Toshua</i>	<i>USC Upstate Nurse Faculty Loan Program</i>	Health Resources & Services Administration (HRSA)/HHS	\$ 68,360
		<i>Lee, Shirleatha</i>	<i>HOPE (Holistic Opportunities & Partnerships that Empower) Nursing Success Project</i>	Health Resources & Services Administration (HRSA)/HHS	\$ 1,956,140