

University of South Carolina — March 2023 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	<i>Applied Research & Evaluation (CARE)</i>				
		<i>Gillam, Pamela</i>	<i>Child Well Being Coalition-- Gap Analysis- Developmental Screening</i>	Bureau of Maternal and Child Health, Child Well Being Coalition - SC Department of Health & Environmental Control DHEC	\$ 27,500
	<i>Center for Community Health Alignment</i>				
		<i>Smithwick, Julie</i>	<i>Community Health Workers Changing Outcomes in South Carolina</i>	South Carolina Department of Health and Human Services (SCDHHS)	\$ 1,900,000
	<i>Epidemiology & Biostatistics</i>				
		<i>Nolan, Melissa</i>	<i>CK19-1904 Epidemiology and Laboratory Capacity for Prevention and Control of Emerging Infectious Diseases (ELC)</i>	SC Department of Health & Environmental Control (DHEC)	\$ 89,996
		<i>Steck, Susan</i>	<i>Cause and effect relationships between glycation and the ancestry specific tumor stroma (Subcontract to Virginia Commonwealth University (VCU))</i>	Virginia Commonwealth University/NCI/NIH	\$ 195,757
	<i>Exercise Science</i>				
		<i>Weaver, Glenn</i>	<i>(PI - James White) Utility and feasibility of activity type to augment consumer wearable-based estimates of physical activity energy expenditure using heart rate and movement in children</i>	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH	\$ 122,622
		<i>West, Delia</i>	<i>Addressing Rural Health Disparities by Optimizing "High Touch" Intervention Components in Digital Obesity Treatment</i>	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH	\$ 3,360,071
		<i>Yeargin, Susan</i>	<i>The Association Between Central Nervous System Function and Core Body Temperature in Exertional Heat Stroke Patients</i>	Mid-Atlantic Athletic Trainers' Association (MAATA)	\$ 1,665
	<i>Health Prom., Educ. & Behavior</i>				
		<i>Draper, Carrie</i>	<i>Share Our Strength's No Kid Hungry Campaign</i>	Share Our Strength	\$ 50,000
		<i>Li, Xiaoming</i>	<i>Nigeria subcontract</i>	Centre for Integrated Health Programs (CIHP)/CDC	\$ 83,288
		<i>Rudisill, Anne</i>	<i>Consortium Coordinating Center for Social, Behavioral, and Economic Research on COVID-19</i>	University of Michigan/NIA/NIH	\$ 29,964
			<i>Utilizing Prisma Health's PLACES (Providing Linkages And Connections to External Social Support Services) Hub to Improve Health in Communities</i>	Prisma Health-Upstate/Duke Endowment	\$ 32,680
College of Arts and Sciences					
	<i>Archaeology & Anthropology</i>				
		<i>Fisher, John</i>	<i>2023 Watts Cemetery Survey, Historic Brattonsville, SC</i>	Cultural & Heritage Museums, York County, South Carolina	\$ 4,847
		<i>King, Adam</i>	<i>Archaeological Investigations at Rose Hill Plantation</i>	SC Parks, Recreation & Tourism	\$ 22,590
		<i>Smith, Steven</i>	<i>Archaeological Survey of the Koni Aawaa', Tupelo, MS</i>	The Chickasaw Nation	\$ 5,980
	<i>Baruch Institute</i>				
		<i>Snyder, Maeve</i>	<i>Evaluating risk of tidal marsh inundation and monetizing services to prioritize management actions</i>	University of Georgia/NOAA/DOC	\$ 6,643

	<i>Biological Sciences</i>				
		<i>Reisman, David</i>	<i>Mechanism of a p53 intron-encoded lncRNA in maintaining the undifferentiated and proliferative state of myeloid leukemia cells.</i>	Children's Leukemia Research Foundation	\$ 30,000
		<i>Welshhans, Kristy</i>	<i>Regulating axon guidance through local translation at adhesions</i>	National Institute of Neurological Disorders and Stroke (NINDS)/NIH	\$ 1,872,670
	<i>Criminology & Criminal Justice</i>				
		<i>Alpert, Geoffrey</i>	<i>Charleston Police Department Racial Bias Audit Implementation: A Proposal to Conduct a Formal, External Review and Assessment (ERA) of Progress</i>	Charleston Police Department/City of Charleston	\$ 72,930
	<i>Geography</i>				
		<i>Li, Zhenlong</i>	<i>Consortium Coordinating Center for Social, Behavioral, and Economic Research on COVID-19</i>	University of Michigan/NIA/NIH	\$ 29,948
	<i>Languages, Literatures, & Cult.</i>				
		<i>Liu, Jiang</i>	<i>DDRI: The Semantic Effect on the Processing of Emotional Prosody in Mandarin Chinese: A Neurolinguistic Study" (Cheng Xiao)</i>	National Science Foundation (NSF)	\$ 17,880
	<i>Psychology</i>				
		<i>Hudac, Caitlin</i>	<i>Evaluation of the Underlying Structure of Adolescent Social Attention</i>	University of Alabama/NIMH/NIH	\$ 82,283
	<i>Religious Studies</i>				
		<i>Mitchem, Stephanie</i>	<i>Women and Gender Studies: Past into Future</i>	South Carolina Humanities/NEH	\$ 8,670
<i>College of Education</i>					
	<i>Education - Dean's Office</i>				
		<i>Berry, Barnett</i>	<i>Teacher Leadership for Whole Child Education -Extension</i>	Stuart Foundation	\$ 40,000
<i>College of Engineering & Comp.</i>					
	<i>Chemical Engineering</i>				
		<i>Lauterbach, Jochen</i>	<i>Next-Generation Ammonia System Integration Utilizing Intermittent Renewable Power (REFUEL Integrations & Testing Program)</i>	State University of New York (SUNY) at Buffalo/(ARPA-E) DOE	\$ 320,000
		<i>Meekins, Benjamin</i>	<i>Nissan Chem / Paradigm Service Work -- Ionomer and Membrane Testing</i>	Nissan Chemical America Corporation and Paradigm Energy	\$ 36,000
		<i>Ritter, James</i>	<i>Structured Adsorbent Material Testing and Evaluation</i>	W.L. Gore & Associates	\$ 170,000
	<i>Civil & Environmental Eng.</i>				
		<i>Berge, Nicole</i>	<i>PFI-TT: Reactive biofilm surfaces for efficient nitrogen management in liquid waste streams</i>	University of Utah/NSF	\$ 23,472
	<i>Computer Science & Engineering</i>				
		<i>Mohammadizand, Ramtin</i>	<i>Design and Implementation of Hardware Accelerator for Zero-Knowledge Cryptography</i>	ZKFlash Labs, Inc.	\$ 84,806
		<i>Zhang, Qi</i>	<i>CAREER: Identifying and Exploiting Multi-Agent Symmetries</i>	National Science Foundation (NSF)	\$ 535,346
	<i>Electrical Engineering</i>				
		<i>Simin, Grigory</i>	<i>STEM-Quantum Channel High Breakdown Voltage HEMT</i>	Rensselaer Polytechnic Institute/ONR	\$ 300,000
	<i>Mechanical Engineering</i>				
		<i>Harik, Ramy</i>	<i>neXt USC-Trane Facility Planning</i>	Trane Technologies Company, LLC	\$ 50,000

		Huang, Xinyu	Fundamental study of the stability and corrosion resistance of fluxless solder joint in lithium-ion battery	Soteria Battery Innovation Group	\$ 45,657
		Ling, Yue (Stanley)	CAREER: Impact of Inlet Conditions on Interfacial Instability and Spray Formation: High-Fidelity Simulation, Characterization, and Sub-Grid Modeling	National Science Foundation (NSF)	\$ 332,469
College of Nursing					
	Nursing				
		Andrews, Jeanette	University of South Carolina College of Nursing PH Workforce Development Grant - Tuition	SC Department of Health & Environmental Control (DHEC)	\$ 122,400
		Corbett, Cynthia	South Carolina Nursing Assistant Program (SCNAP)	SC Department of Health & Environmental Control (DHEC)/CDC	\$ 3,186,688
Darla Moore School of Business					
	Moore Sch - Div. of Research				
		Von Nessen, Joseph	SC Dept. of Commerce: Economic Impact Analysis of Project Connect	SC Department of Commerce	\$ 15,000
Division of Student Affairs					
	Substance Abuse and Prevention				
		Hourigan, Aimee	Harm Reduction Services - Federal	SC Department of Alcohol and Other Drug Abuse Services/SAMHSA/HHS	\$ 5,000
			Harm Reduction Services - State	SC Department of Alcohol and Other Drug Abuse Services	\$ 12,000
Economic Engagement					
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		Hardaway, Chad	South Carolina Rising: A New Pre-Seed/Seed Fund	SC Department of Commerce (SCDOC)	\$ 47,000
School of Medicine					
	Basic Science Research				
		Spinale, Francis	Fibroblast targeting for myocardial repair	National Heart, Lung, and Blood Institute (NHLBI)/NIH	\$ 2,650,598
	Cell Biology & Anatomy				
		Carver, Wayne	Developing natural compound emodin as a therapy for alcoholic cardiomyopathy	AcePre, LLC/NIH	\$ 217,254
	Family & Preventive Medicine				
		Bennett, Kevin	Developing dynamic simulation models for real-time emergency resource allocation to reduce health disparities during the COVID-19 pandemic and future health emergencies	Clemson University/NLM/NIH	\$ 70,076
	Path, Microbio. & Immunology				
		VanderVeen, Brandon	Impact of Obesity on Chemotherapy-induced Cytotoxicity- Immune Cells and Skeletal muscle	National Cancer Institute (NCI)/NIH	\$ 260,086
School of Music					
	Music				
		Bunny, Michael	USC Guitar Spheres	SC Research Foundation (SCRF)/South Carolina Arts Commission	\$ 2,250