

University of South Carolina — December 2020 New 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>Lead, Jamie</i>			
			<i>I-CORPS: SILVER NANOPARTICLES FOR ELIMINATION OF FUNGAL TOXINS</i>	National Science Foundation (NSF)	\$ 50,000
	<i>Epidemiology & Biostatistics</i>				
		<i>Zhang, Jiajia</i>			
			<i>Bayesian Modeling for Prenatal, Natal and Postnatal Predictors of Developmental Defects of Enamel in Primary Maxillary Central Incisor Teeth - MUSC Student Subcontract Sijian Fan</i>	Medical University of South Carolina (MUSC)/NIH	\$ 74,974
	<i>Exercise Science</i>				
		<i>Arent, Shawn</i>			
			<i>Blood Flow Restriction Training</i>	University of South Florida/DOD	\$ 244,978
		<i>Burkart, Sarah</i>			
			<i>The Longitudinal Influence of Home Disorganization on Children's Sleep Variability</i>	National Heart, Lung, and Blood Institute (NHLBI)/NIH	\$ 139,236
		<i>Moore, Robert</i>			
			<i>Double-Blind Randomized Placebo-Controlled Trial of Apollo to Remediate Post-Concussion Syndrome</i>	The Board of Medicine	\$ 125,000
	<i>Health Prom., Educ. & Behavior</i>				
		<i>Larson, Leila</i>			
			<i>Randomized controlled trial of the effect of intravenous iron on anaemia in Malawian pregnant women (REVAMP)</i>	The Walter and Eliza Hall Institute of Medical Research/Gates Foundation	\$ 26,280
		<i>Rudisill, Anne</i>			
			<i>Examining the factors that predict differences in costs among participants in the MyHealthFirstNetwork Medicare Shared Savings Program over 2015-2017</i>	Greenville Health System	\$ 17,094
	<i>Health Services Policy & Mgmt</i>				
		<i>Cozad, Melanie</i>			
			<i>Effectiveness of end-of-life strategies to improve pediatric health outcomes and reduce disparities in rural Appalachia</i>	University of Tennessee/NIH	\$ 90,223
		<i>Crouch, Elizabeth</i>			
			<i>Continuing the Examination of SC MIECHV Client and Staff Attrition and the Organizational Factors that Promote Retention</i>	Children's Trust of South Carolina/HRSA	\$ 371,110
	<i>PASOS</i>				
		<i>Martin, Maria</i>			
			<i>PASOs Connections for Childhood Development Program and First Steps</i>	SC First Steps/BCBS of SC Foundation	\$ 179,162
		<i>Young, Michael</i>			
			<i>MIECHV Children's Trust PASOs</i>	Children's Trust of South Carolina/HRSA/HHS	\$ 100,000
College of Arts and Sciences					
	<i>Archaeology & Anthropology</i>				
		<i>Smith, Steven</i>			

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			<i>Processing and Inventory of Charlesfort/Santa Elena Archaeological Records and Collections</i>	US Marine Corps/DOD	\$ 10,000
	<i>Chemistry & Biochemistry</i>				
		<i>Ferry, John</i>			
			<i>Natural attenuation of 1,4-dioxane and associated contaminants in coastal aquifers</i>	Geosyntec Consultants, Inc.	\$ 20,000
		<i>Wang, Qian</i>			
			<i>Enhancement of stem cell regenerative properties by hydrogen sulfide: a novel wound dressing to augment stem cell therapies</i>	University of Texas Medical Branch at Galveston/NIH	\$ 409,077
	<i>History</i>				
		<i>Donaldson, Bobby</i>			
			<i>Virtual Teachers' Institute on Education and Civil Rights History in South Carolina</i>	SC Department of Education (SCDE)	\$ 58,846
	<i>Mathematics</i>				
		<i>Wang, Qi</i>			
			<i>Excellence in Research: Machine Learning and Applications</i>	Benedict College/NSF	\$ 153,480
	<i>Psychology</i>				
		<i>Weist, Mark</i>			
			<i>John H. Magill School Mental Health Certificate Program</i>	SC Department of Mental Health (SCDMH)	\$ 35,476
College of Engineering & Comp.					
	<i>Chemical Engineering</i>				
		<i>Jabbarzadeh, Ehsan</i>			
			<i>SCRA MDA Fellowship Award</i>	SC Research Authority (SCRA)	\$ 5,000
		<i>Mustain, William</i>			
			<i>Understanding the Role of Activated Oxygen Species in the Room Temperature Conversion of Methane to Methanol</i>	National Science Foundation (NSF)	\$ 350,000
		<i>Regalbuto, John</i>			
			<i>EM-Enhanced Thermocatalytic Depolymerization of Mixed Plastic</i>	Savannah River National Lab (SRNL)/DARPA/DOE	\$ 74,999
	<i>Computer Science & Engineering</i>				
		<i>Bakos, Jason</i>			
			<i>Models for Predicting Compositions of Amorphous Solids</i>	Savannah River National Laboratory (SRNL)/DOE	\$ 70,000
		<i>Srivastava, Biplav</i>			
			<i>Task Order 1: Consulting on AI and Intellectual Property</i>	Tantiv4 Inc.	\$ 8,000
			<i>Task Order 2: Conversational Agent for the home routers</i>	Tantiv4, Inc.	\$ 16,000
	<i>Mechanical Engineering</i>				
		<i>Banerjee, Sourav</i>			
			<i>Extensive Review on the Application of Robotics for Vegetable Harvesting</i>	SC Department of Agriculture (SCDA)	\$ 20,000
		<i>Hu, Ming</i>			
			<i>Inverse Design of Lightweight 3D Full Carbon Network as High Capacity Energy Storage Materials</i>	College of Charleston/NASA	\$ 20,000
		<i>Yuan, Lang</i>			
			<i>Machine Learning Enhanced Understanding of Functional Gradient Materials Enabled by Direct Energy Deposition</i>	Edison Welding Institute/DOE	\$ 379,475

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College of Information & Comm.					
	<i>Library & Information Sciences</i>				
		<i>Kawooya, Dick</i>			
			<i>Right to Research: Supporting Africa's Copyright Reform Agenda at WIPO</i>	American University/Arcadia Philanthropic Trust	\$ 95,982
College of Pharmacy					
	<i>Drug Discovery & Biomed Sci.</i>				
		<i>Pittman, Douglas</i>			
			<i>Mini-Reap 2020: Modeling Radiation-induced Mutational Signatures in Mammalian Cells</i>	College of Charleston/SC Space Grant/NASA	\$ 10,000
		<i>Zhu, Jun</i>			
			<i>Title: Allosteric modulators of dopamine transporter as therapeutic agents for NeuroAIDS</i>	Southern Research Institute/NIDA/NIH	\$ 1,526,469
Darla Moore School of Business					
	<i>Moore Sch - Div. of Research</i>				
		<i>Von Nessen, Joseph</i>			
			<i>Greenville Area Development Corporation - Economic Impact Analysis</i>	Greenville Area Development Corporation	\$ 36,550
Division of Student Affairs					
	<i>Substance Abuse and Prevention</i>				
		<i>Hourigan, Aimee</i>			
			<i>Great Plays at South Carolina</i>	International Town Gown Association	\$ 9,996
Hosp., Retail, & Sport Mgmt					
	<i>Sport & Entertainment Mgmt</i>				
		<i>Koesters, Todd</i>			
			<i>Cincinnati Fan Panel Grant</i>	Fussball Club Cincinnati, LLC	\$ 150,000
School of Medicine					
	<i>Internal Medicine</i>				
		<i>Albrecht, Helmut</i>			
			<i>The Center for Innovation in Point-of-Care Technologies for HIV/AIDS at Northwestern University (C-THAN) RADx Supplemental Request</i>	Northwestern/University of Massachusetts School of Medicine/NIH	\$ 138,157
	<i>Orthopaedic Surgery</i>				
		<i>Jackson, J. Benjamin</i>			
			<i>Systemic Hypothermia in Acute Cervical Spinal Cord Injury – A Prospective, Multi-center Case Controlled Study</i>	University of Miami/AMRMC/DOD	\$ 113,840

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	<i>Pediatrics</i>				
		<i>Rotholz, David</i>			
			<i>SC Assistive Technology Mobility Independence Project</i>	Christopher & Dana Reeve Foundation/HHS	\$ 74,542
	<i>Pharm., Physiology & Neurology</i>				
		<i>Wilson, Marlene</i>			
			<i>VA IPA Jim Fadel: Neural Basis of Individual Differences in Fear Extinction</i>	William Jennings Bryan Dorn VA Medical Center/VA	\$ 16,698
			<i>VA IPA Susan Wood: Neural Basis of Individual Differences in Fear Extinction</i>	William Jennings Bryan Dorn VA Medical Center/VA	\$ 60,720
			<i>IPA David Mott: Neural Basis of Individual Differences in Fear Extinction</i>	William Jennings Bryan Dorn VA Medical Center/VA	\$ 35,000
			<i>IPA Iris Sakamoto: Neural Basis of Individual Differences in Fear Extinction</i>	William Jennings Bryan Dorn VA Medical Center/VA	\$ 62,880
University 101					
	<i>U101 and National Resource Ctr.</i>				
		<i>Keup, Jennifer</i>			
			<i>National Advising Success Network_Phase 3</i>	NASPA-Student Affairs Administrators in Higher Education/Gates Foundation	\$ 97,500
University of SC Beaufort					
	<i>BFT Natural Sciences</i>				
		<i>D'Antonio, Edward</i>			
			<i>Grant from Cycling Turtle Woodworks, LLC to the Laboratory of Dr. Edward L. D'Antonio (USC Beaufort)</i>	Cycling Turtle Woodworks, LLC./Schwab Charitable	\$ 500
			<i>Grant from Dr. Jane Upshaw to the Laboratory of Dr. Edward L. D'Antonio (USC Beaufort)</i>	Dr. Jane T. Upshaw	\$ 335
			<i>Early-Stage Drug Discovery for Coronavirus Disease 2019</i>	Community Foundation of the Lowcountry	\$ 10,000