

## University of South Carolina — September 2021 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
<b>Arnold School of Public Health</b>					
	<i>Environmental Health Sciences</i>				
		<i>Kloot, Robin</i>	<i>Growing Resilience in Our Soils</i>	Natural Resources Conservation Service (NRCS)/USDA	\$ 419,600
		<i>Porter, Dwayne</i>	<i>SECOORA - Integrated Decision Support and Management Tools for Adaptive Public Health Practices: An Early Advisement and Reporting System for Recreational and Shellfish Harvesting Waters of the Southeast</i>	Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA	\$ 448,360
		<i>Seth, Ratanesh</i>	<i>IPA: Ratanesh Seth</i>	WJB Dorn VA Medical Center/VA	\$ 152,740
	<i>Epidemiology &amp; Biostatistics</i>				
		<i>Hebert, James</i>	<i>Role of the Autonomic Nervous System in Gastrointestinal Inflammation and Colorectal Adenoma Risk - Subcontract with VCU - Joshua Mercadel</i>	Virginia Commonwealth University (VCU)/NCI/NIH	\$ 200,519
		<i>Nolan, Melissa</i>	<i>South Carolina's Initiative to Address COVID-19 Health Disparities Among Populations at High-Risk and Underserved, Including Racial and Ethnic Minority Populations and Rural Communities</i>	SC Department of Health & Environmental Control (DHEC)/CDC	\$ 5,480,832
		<i>Nolan, Melissa</i>	<i>Improving mosquito control methodologies through development of technology-driven traps and artificial intelligence guided detection of mosquito breeding habitats</i>	National Institute of Allergy & Infectious Diseases (NIAID)/NIH	\$ 3,719,912
	<i>Exercise Science</i>				
		<i>Armstrong, Bridget</i>	<i>Validity and Utility of a PATCH to Monitor Free-living Energy Expenditure in Children 3 to 8 Years Old</i>	National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH	\$ 216,150
		<i>McFadden, Bridget</i>	<i>Impact of a Novel Marine Algae Supplement on the Inflammatory and Immune Response After High Intensity Exercise</i>	Nutrasource Pharmaceutical and Nutraceutical Services Inc./Marinova Pty Ltd.	\$ 85,000
		<i>Moore, Robert</i>	<i>IPA Agreement with Dorn VA Medical Center - Elisabeth Holt</i>	WJB Dorn VA Medical Center/VA	\$ 39,966
		<i>Pate, Russ</i>	<i>Understanding Community Obesity Initiatives and Informing Tailored Community Interventions to Reduce Childhood Obesity</i>	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH	\$ 1,520,375
	<i>Health Prom., Educ. &amp; Behavior</i>				
		<i>Frongillo, Edward</i>	<i>Linkages between nutritional outcomes and food and nutrition security</i>	Economic Research Service/USDA	\$ 140,000
		<i>Li, Xiaoming</i>	<i>Multi-level Determinants of Racial Disparities in Maternal Morbidity and Mortality During the COVID-19 Pandemic</i>	National Institute of Allergy & Infectious Diseases (NIAID)/NIH	\$ 886,188
	<i>Health Services Policy &amp; Mgmt</i>				
		<i>Natafqi, Nabil</i>	<i>COVID-19-Focused Virtual Patient Engagement Studio (CoVIP Studio): Using Technology to Engage Patients, Clinicians, and Researchers to Address Long-Term Effects of COVID-19</i>	Patient-Centered Outcomes Research Institute (PCORI)	\$ 199,595
<b>College of Arts and Sciences</b>					
	<i>Baruch Institute</i>				
		<i>Plunket, Jennifer</i>	<i>North Inlet - Winyah Bay NERR: Climate Vulnerability Web Application Development</i>	National Ocean Service (NOS)/NOAA/DOC	\$ 68,970
	<i>Biological Sciences</i>				
		<i>Ely, Berten</i>	<i>Get Hurricane Smart: Centering Youth as Ambassadors of Community Hurricane Resilience</i>	SC Sea Grant Consortium/NOAA	\$ 8,380

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	<i>Chemistry &amp; Biochemistry</i>				
		<i>Chen, Donna</i>	<i>Multimetallic Metal-Organic Frameworks as Tunable, Multifunctional Catalysts for Gas Phase Hydroformylation and Hydrogenation Reactions</i>	US Department of Energy (DOE)	\$ 219,276
		<i>Shustova, Natalia</i>	<i>Organometallic Catalysis form Molecular Catalysts Non-Covalently Confined in Metal-Organic Frameworks</i>	Boston College/DOE	\$ 66,327
	<i>History</i>				
		<i>Donaldson, Bobby</i>	<i>National Park Service: African American Civil Rights Grant Opportunity</i>	National Park Service (NPS)/DOI	\$ 500,000
	<i>Mathematics</i>				
		<i>Ju, Lili</i>	<i>Reliable and Efficient Machine Learning for Leadership Facility Scientific Data Analytics</i>	US Department of Energy (DOE)	\$ 300,000
	<i>McKissick Museum</i>				
		<i>Burgess, Lana</i>	<i>The Changing Cultural Climate in Museums</i>	SC Humanities/NEH	\$ 2,000
	<i>Physics &amp; Astronomy</i>				
		<i>Ilieva, Yordanka</i>	<i>NSF-BSF: The Study of Nuclear Physics with Intermediate Energy Probes</i>	National Science Foundation (NSF)	\$ 1,350,000
	<i>Psychology</i>				
		<i>Weist, Mark</i>	<i>John H. Magill School Mental Health Certificate Program</i>	SC Dept of Mental Health (SCDMH)	\$ 35,476
	<i>School of Earth, Ocean &amp; Env.</i>				
		<i>Bizimis, Michael</i>	<i>Nd, Hf, Sr isotope Analyses USGS (RFQ 140G0321Q0178)</i>	US Geological Survey/DOI	\$ 31,340
	<i>Statistics</i>				
		<i>Ho, Yen-Yi</i>	<i>scDECO: A novel statistical framework to systematically identify differential co-expression gene combinations using single-cell RNA sequencing data</i>	National Cancer Institute (NCI)/NIH	\$ 360,498
		<i>Wang, Dewei</i>	<i>Global significance test based on quantile regression with applications to genomic studies of Alzheimer's disease</i>	University of Louisville Research Foundation, Inc./NIA/NIH	\$ 98,351
<b>College of Engineering &amp; Comp.</b>					
	<i>Chemical Engineering</i>				
		<i>Ritter, James</i>	<i>Evaluation of Micron Ni Adsorbent for O2 Removal</i>	Micro Technology Inc	\$ 200,000
	<i>Civil &amp; Environmental Eng.</i>				
		<i>Berge, Nicole</i>	<i>Improving Ammonia Volatilization Through pH Adjustment</i>	Environmental Research and Education Foundation	\$ 127,784
		<i>Qian, Yu</i>	<i>Autonomous Power-efficient Track Inspection System (APTIS)</i>	Federal Railroad Administration/DOT	\$ 154,216
		<i>Rizos, Dimitris</i>	<i>Development of Performance-Based Concrete Crosstie Specifications for the US – and the Design, Manufacture, and Revenue Service Testing of Prototype Concrete Crossties</i>	University of Illinois/Federal Railroad Administration/DOT	\$ 25,000
		<i>Sasanakul, Inthuorn</i>	<i>Geosynthetic Institute Fellowship - (Student PI: Pitak Ruttithivaphanich)</i>	Geosynthetic Institute	\$ 5,000
	<i>IIT - Engineering</i>				
		<i>Crichigno, Jorge</i>	<i>CyberTraining: Implementation: Small: Cybertraining on P4 Programmable Devices using an Online Scalable Platform with Physical and Virtual Switches and Real Protocol Stacks</i>	National Science Foundation (NSF)	\$ 499,540

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	<i>Mechanical Engineering</i>				
		<i>Harik, Ramy</i>	<i>Next Generation Carbon Fiber Composites for Aircraft</i>	Atomic-6/USAF/DOD	\$ 15,000
		<i>Harik, Ramy</i>	<i>R11 Track 2 FEC: Enabling Factory to Factory (F2F) Networking for Future Manufacturing</i>	National Science Foundation (NSF)	\$ 3,832,325
		<i>Huang, Kevin</i>	<i>Developing Stable Critical Materials and Microstructure for High-Flux and Efficient H2 production through Reversible Solid Oxide Cells</i>	US Department of Energy (DOE)	\$ 1,000,000
		<i>Xue, Xingjian</i>	<i>Oxygen Generation for Deployed Army Casualty Care</i>	ChromoLogic/DOD	\$ 12,999
<b>College of Information &amp; Comm.</b>					
	<i>School of Information Sciences</i>				
		<i>Kitzie, Vanessa</i>	<i>New Librarianship Symposia</i>	Institute of Museum and Library Services (IMLS)	\$ 36,000
		<i>Spiering, Jenna</i>	<i>Full STEAM (and Social Studies) Ahead with TPS Grant Training in South Carolina</i>	Library of Congress	\$ 83,855
<b>College of Nursing</b>					
	<i>Nursing</i>				
		<i>Hughes, Ronda</i>	<i>The impact of specialty certification on patient outcomes and costs in acute care: a feasibility assessment and individual value - added performance analysis</i>	Regents of the University of Michigan/American Nurses Foundation	\$ 55,845
<b>College of Pharmacy</b>					
	<i>Pharm - Clin Pharm &amp; Outcomes Sciences</i>				
		<i>Hastings, Tessa</i>	<i>Barriers and facilitators to the delivery of childhood and adolescent vaccinations in rural community pharmacies</i>	UNC Chapel Hill on behalf of its Eshelman School of Pharmacy	\$ 2,500
<b>Darla Moore School of Business</b>					
	<i>Moore Sch - Div. of Research</i>				
		<i>Von Nessen, Joseph</i>	<i>Lower Savannah Council of Governments: Post-COVID Assessment of Six-County LSCOG Region</i>	Lower Savannah Council of Governments (LSCOG)/EDA	\$ 110,000
<b>Law Enforcement &amp; Safety</b>					
	<i>Law Enforc. &amp; Safety</i>				
		<i>Culp, Erin</i>	<i>Body Worn Camera Fund FY22</i>	SC Department of Public Safety, Office of Highway Safety and Justice Programs	\$ 65,880
<b>School of Law</b>					
	<i>Law - Dean's Office</i>				
		<i>Samuels, Joel</i>	<i>Empowering Workers for Justice in Bangladesh</i>	US Department of State (DOS)	\$ 740,740
<b>School of Medicine</b>					
	<i>Neuropsychiatry</i>				
		<i>Narasimhan, Meera</i>	<i>LATITUDE: Long-Acting Antipsychotic Treatments in Community Telepsychiatry: Knowledge, Attitudes, and Barriers from Patients, Caregivers and Providers' Perspective (South Carolina Example)</i>	Alkermes, Inc.	\$ 74,025
	<i>Path, Microbio. &amp; Immunology</i>				
		<i>Nagarkatti, Prakash</i>	<i>Role of the environmental sensor, AhR on colitis (Resubmission)</i>	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	\$ 2,472,149

