

University of South Carolina — December 2021 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
<i>Arnold School of Public Health</i>					
	<i>Center for Community Health Alignment</i>				
		Smithwick, Julie	Community Health Workers Changing Outcomes in South Carolina	SC Center for Rural and Primary Healthcare/SCDHHS	\$ 551,040
	<i>Environmental Health Sciences</i>				
		Norman, Robert	South Carolina SARS-CoV-2 Wastewater Surveillance	SC Department of Health & Environmental Control (DHEC)/CDC	\$ 81,600
	<i>Epidemiology & Biostatistics</i>				
		Alberg, Anthony	Estimation of the Population Burden of Secondhand Smoke Caused Mortality in South Carolina Adults	SC Department of Health and Environmental Control (DHEC)	\$ 60,000
	<i>Health Prom., Educ. & Behavior</i>				
		Draper, Carrie	Project 5. Local Food Policy Councils	SC Department of Social Services (SCDSS)/USDA	\$ 153,178
			Project 6. Strengthening and Expanding Transportation	SC Department of Social Services (SCDSS)/USDA	\$ 191,510
		Thrasher, James	Predicting and Understanding the Use of Nicotine Products In a Rapidly Evolving Nicotine Marketplace: The International Nicotine Product, Regulatory Policy, and Market (INPRAM) Study.	Medical University of South Carolina (MUSC)/NIH	\$ 140,173
	<i>Health Services Policy & Mgmt</i>				
		Crouch, Elizabeth	Improving STD Prevention and Care Through Partnerships	CDC Foundation/CDC/HHS	\$ 308,744
<i>College of Arts and Sciences</i>					
	<i>Anthropology</i>				
		DeWitte, Sharon	Paleoepidemiological and aDNA study of a Neolithic Settlement in Northern China – In Search of the Earliest Plague Epidemic	Texas A&M University Health Science Center/NSF	\$ 28,071
	<i>Archaeology & Anthropology</i>				
		Spirek, James	A New Andalucía: Surveying for the Flagship of Lucas Vázquez de Ayllón in South Carolina	SC Department of Archives and History	\$ 250,000
	<i>Geography</i>				
		Kupfer, John	Managing fire in longleaf pine ecosystems: Current constraints and the longer-term challenges of landscape transformation and anthropogenic climate change	NC State University/SECASC/USGS/DOI	\$ 60,437
	<i>Psychology</i>				
		Decker, Scott	Integrating instructional and diagnostic testing in multi-tiered models to identify children with dyslexia using a neuropsychological approach	The Woodcock Institute	\$ 15,000
			Predicting at-risk reading outcomes in multi-tiered models using diagnostic cognitive and neuro-cognitive tests	The Woodcock Institute	\$ 15,000
		Will, Elizabeth	A Longitudinal Outcome Study of the Symptom Progression and Diagnostic Stability of Autism in Children with Down syndrome	Jerome Lejeune Foundation	\$ 49,592
<i>College of Engineering & Comp.</i>					

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	<i>Chemical Engineering</i>				
		Lauterbach, Jochen	Compact Catalytic Membrane Reactor for One-Step High-Efficiency Ammonia Synthesis at Moderate Temperatures and Pressures	E2H2NANO, LLC/DOE	\$ 449,855
		Meekins, Benjamin	Nuvera 5 Samples -- December 2021	Nuvera Fuel Cells, LLC	\$ 4,250
		Ritter, James	Evaluation of Adsorbents for Hydrocarbon Adsorption	Coldstream Energy, LLC	\$ 150,000
		Sadati, Monirosadat	CAREER: Crystallization of Chiral Liquid Crystals Under Curved Confinement	National Science Foundation (NSF)	\$ 524,988
		Shimpalee, Sirivatch	Thermocatalytic Ethylene Production Using Targeted RF Induction Heating TO 0000585742	Battelle Savannah River Alliance, LLC (BSRA)/SRNL/DOE	\$ 385,000
	<i>Civil & Environmental Eng.</i>				
		Ziehl, Paul	Optimized Stringer Design	The Boeing Company	\$ 124,388
	<i>Computer Science & Engineering</i>				
		Bakos, Jason	A Unified Machine Learning Framework for Corrosion Surveillance	Savannah River National Lab/DOE	\$ 246,815
		Valafar, Homayoun	The Smartwatch Pilot Project	Pennington Biomedical Research Center/Louisiana State University	\$ 10,000
		Zeng, Qiang	CAREER: Towards Secure and Usable IoT Authentication Under Constraints	National Science Foundation (NSF)	\$ 545,666
	<i>Mechanical Engineering</i>				
		Huang, Xinyu	Ply friction measurement technique development	The Boeing Company	\$ 97,259
		Knight, Travis	Advanced Nuclear Technologies Research, Development and Planning Project	E4 Carolinas Inc./EDA/DOC	\$ 24,000
<i>College of Nursing</i>					
	<i>Nursing</i>				
		Everhart, Kayla	Evaluation of a blood warming device for packed red blood cell transfusions to decrease hypothermia in very preterm infants	The Gerber Foundation	\$ 327,097
		Jenerette, Coretta	SC Nursing Initiative to Address COVID-19 Health Disparities & Inequities	SC Department of Health and Environmental Control(DHEC)/CDC/HHS	\$ 1,000,000
		Vick, Lori	National Black Nurses Association (NBNA) Mini Nurse Academy	National Black Nurses Association, Inc.	\$ 10,382
<i>College of Pharmacy</i>					
	<i>Drug Discovery & Biomed Sci.</i>				
		Sahin, Ozgur	Overcoming chemoresistance in triple negative breast cancer	National Cancer Institute (NCI)/NIH	\$ 1,113,030

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	<i>Pharm - Clin Pharm & Outcomes Sciences</i>				
		Hastings, Tessa	Increasing Access to Pediatric Vaccinations through Rural SC Community Pharmacies	SC Research Foundation (SCRF)/The Fullerton Foundation	\$ 147,877
<i>Hosp., Retail, & Sport Mgmt</i>					
	<i>Hotel, Restaurant & Tour Mgmt</i>				
		Harrill, Richard	Columbia Metropolitan Convention Center Expansion: Standards, Practices, and Projections	Columbian Metropolitan Convention Center	\$ 15,000
<i>School of Law</i>					
	<i>Children's Law Center</i>				
		Morris, Carolyn	De-incarcerating South Carolina's Status Offenders	SC Department of Public Safety/DOJ	\$ 193,939
<i>School of Medicine</i>					
	<i>Basic Science Research</i>				
		McCarthy, Cameron	Autophagy regulates β -hydroxybutyrate synthesis to prevent hypertension-associated premature vascular aging	National Heart, Lung, and Blood Institute (NHLBI)/NIH	\$ 746,999
		Webb, Robert (Clinton)	Leucine-Rich Repeat-Containing 8 Proteins (LRRC8s) in Volume Regulated Anion Channels (VRACs) Facilitate Extracellular Superoxide Entry Into Vascular Smooth Muscle Cells	Sexual Medicine Society of North America (SMSNA)	\$ 5,000
	<i>Family & Preventive Medicine</i>				
		Bennett, Kevin	Activation and Expansion of the Libraries and Health Innovations Program	SC Department of Health & Environmental Control (SCDHEC)/CDC	\$ 500,000
	<i>Internal Medicine</i>				
		Yates-Wilson, Beverly	Fresh Food Access	Prisma Health Midlands	\$ 34,000
	<i>Neuropsychiatry</i>				
		Narasimhan, Meera	"Access Improvement/rural Outreach Initiatives in Partnership with SC Office of Rural Health Contract #1599 SC DHHS Services for Purchase and Provision of Rural Outreach Program"	SC Department of Health and Human Services/HHS	\$ 3,783,000
	<i>Pediatrics</i>				
		Cramer, Stuart	COG Study: ANBL1531 Jubilant Draximage, Inc.	The Children's Hospital of Philadelphia, Contracting on behalf of the Children's Oncology Group (COG)/Jubilant Draximage, Inc.	\$ 2,000
<i>School of Medicine (Grvl)</i>					
	<i>Medicine Greenville</i>				
		Trilk, Jennifer	Creating Pathways to Advance Lifestyle Medicine Training into Undergraduate Medical Education.	American College of Lifestyle Medicine	\$ 274,927