University of South Carolina - August 2022 New Grant Awards Report						
PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Aw	ard Total
Arnold School o	of Public Health					
	Center for Community Health Alignment					
		Smithwick, Julie	Cabanana da 6 Talaba a Ma Okilla O Cananida fan Ad Diala Canda Canaliniana	CO Decembric (CODE)/Edited as Ferraletics	-	420.000
	Epidemiology & Biostatistics		Enhancement of Telehealth Skills & Capacity for At-Risk South Carolinians	SC Research Foundation (SCRF)/Fullerton Foundation	•	138,000
		Hebert, James - Murphy,				
		Angla - Hofseth, Lorne	A Transdisciplinary Approach to Investigating Metabolic Dysregulation in Obese Parent and Child Dyads and Risk			
			of Colorectal Cancer	National Cancer Institute (NCI)/NIH	\$	5,869,948
	Exercise Science	Arent Chausa			_	
		Arent, Shawn				
			Improving Neuroprotection, Cognitive Function, and Mental Focus with Neurodegradation Countermeasure	AmpHP, Inc dba Momentous/US Air Force/DOD	\$	232,169
		Moore, Robert	IPA Agreement with Dorn VA Medical Center - Adam Harrison	WJB Dorn VA Medical Center/VA		52,119
		Potter, Elizabeth	IFA Agreement with Don't VA Medical Center - Adam Hamson	W36 Dom va Medical Center/va	•	52,119
		, , , , , , , , , , , , , , , , , , , ,	Feasibility of a clinic-to-community partnership providing vouchers to promote healthy food access among SNAP		1.	
	Health Prom., Educ. & Behavior		families with food insecurity	Prisma Health - Upstate	\$	19,966
	Troditi From., Educ. & Dellaviol	Frongillo, Edward				
			The Effect of Social Capital on Global Food Insecurity	Economic Research Service/USDA	\$	30,000
			Promoting Nutrition Security by Examining the Relationships between Food Insecurity and Nutrition and Health Indicators in Federal Data	Economic Research Service/USDA	s	30,000
		Li, Xiaoming		Economic recognition of the control	Ť	00,000
			BDHC Excellence Pilot Project: A two-pronged big data approach to critically analyze Strongyloides stercoralis infections among rural, impoverished South Carolina residents	SC Center for Rural and Primary Healthcare, UofSC School of Medicine Educational Trust/SC DHHS		15,000
0.11			intections among rural, impovensned South Carolina residents	Educational Trust/SC DHHS	3	15,000
College of Arts	Archaeology & Anthropology					
	Archaeology & Anunopology	Fisher, John				
			Phase I Survey of a 20-acre Tract for the River Falls Access Area, Greenville County, South Carolina	SC Department of Parks, Recreation and Tourism (SCPRT)	\$	14,829
	Biological Sciences	5 7h				
		Fu, Zhengqing	Coordination of Plant Growth and Defense Through Key Regulators in Salicylic Acid and Brassinosteroid			
			Pathways	National Science Foundation (NSF)	\$	574,446
		Hollis, Brian		National Science Foundation (NSF)	-	383,432
	Chemistry & Biochemistry		Experimental speciation and the genomics of reinforcement in Drosophila	National Science Foundation (NSF)	•	303,432
		Wang, Qian				
			MRI: Acquisition of the MALDI-MS rapifleX system as an analytical tool to support multidisciplinary research at University of South Carolina	National Science Foundation (NSF)		470,000
	Geography		University of Goden Galonina	realional objetice Foundation (Not)		470,000
		Cutter, Susan				
		Daw Winstin	Assessment of Resilience Best Practices and Metrics in support of State Resilience Planning Efforts	South Carolina Office of Resilience	\$	65,000
		Dow, Kirstin	Heat Mapping in Richland County	Richland County Conservation Commission	s	6,250
		Hiscox, April	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,		-,
			Radar-based Spray Drift Detection and Quantification System	Application Insight, LLC/USDA	\$	23,053
	History	Schulz, Constance			-	
		Scriuiz, Constance	The South Carolina Revolutionary Era Pinckney Papers Projects: Preserving the Digital Research Assets of Two			
			Digital Documentary Editions - Final Year			
				National Historical Publications & Records Commission (NHPRC)	\$	100,000
	Mathematics	1				
		Binev, Peter	Foundations of Computational Mathematics Conference – FoCM 2023	National Science Foundation (NSF)	e	49,500
		Sun, Yi	n canadatons of computational maintenance conference – FUCM 2023	Mational Coleros Foundation (NOF)	9	49,000
			Hybrid Kinetic Monte Carlo Methods with Applications in Biofabrication and Epidemics	National Science Foundation (NSF)	\$	176,321
	Psychology	Fodorico At. :				
		Federico, Alexis	Infant Predictors of ADHD and ASD Symptomology	National Institute of Child Health & Human Development (NICHD)/NIH	\$	125,721
		Hudac, Caitlin		Table of Sina reside a raman persopriori (110110)/1411		.20,721
			BioGENE Study at the Simons Searchlight 2022 Family Meeting	Simons Foundation	s	15,000
			Blodelive Study at the Simons Searchight 2022 Family Meeting	Olifford F Curidation		
		Quattlebaum, Mary	Integrating Family Resilience and Cultural Assets to Inform the LEADS Health Promotion Trial with African	Omors i ouradion	1	

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School of Settle Corea & Early 1-969, Design 1-969, Desi			Weist, Mark				
College of Engrence		0.4.4.65.11.0		Development and Implementation of a SC School Behavioral Health Academy	South Carolina Department of Health and Human Services (SCDHHS)	\$	3,224,526
College of Engineering College of Engineer		School of Earth, Ocean & Env.	Sugarta Davida				
Sinderies Notice			Fuente, David	Collaborative Research: NNA Research: Med unduvatkamut (water is our livelihood) - building community		_	
Marie and Dance				resilience for the future	National Science Foundation (NSF)	\$	55,827
Marchage and Databota		Statistics					
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Colorging of Execution Colorging of Execut				IPA for NISS Associate Director for Education Activities and Research	National Institute of Statistical Sciences (NISS)	\$	74,528
Calendary Response (Calendary Response (Calendary Response (Calendary Calendary Cale		Theatre and Dance					
Fallowine			Milling, Stephanie				
Colorege of Experience Commerce Commerce Colorege of Experience Colorege of Experien					SC Arts Commission	•	15,000
Research, End, & Measurement Activate	0.11			Lucidadi	OC ALS COMMISSION	Ť	10,000
Lenis Arbees	College of Edu						
Complete Stagement & Comp. Complete Stagement & Comp.		Research, Eval., & Measurement	Lauria Aablaa			_	
College of Engineering Chemical Engineering Minks Repin Autor Carl High Repin Anabase College of Engineering Autor Carl High Repin Anabase College of Engineering Autor Carl High Repin Anabase College of High Repin Anabase Autor Carl High Repin Anabase College of High Repin Anabase Autor Carl High Repin Anabase College of High Repin Anabase Autor Carl High Repin Anabase (CARL & Environmental Eng. Dystalls, Seven Anabase Autor Carl High Repin Anabase (CARL Anabase) Autor Carl High Repin Anabase (CARL Anabase) Anabase (CARL Anabase) Anabase (CARL Anabase) Anabase College and Repond High Anabase (CARL High Anabase) Anabase Ana			Lewis, Asrilee	South Carolina Arte Assessment Program (SCAAD)	SC Department of Education (SCDE)	e	80,000
Oberinder Engineering Figure Analyses Analys				South Carolina Arts Assessment Program (SCAAP)	SC Department of Education (SCDE)	3	60,000
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Battery Cell right Proporting Electrochemical Impedance Specificatory (EliS) Measurement and Mobil Cere di Environmental Eng. Diddas Severe Assessing sea-revir lie and Rocking Granges in the Secretamential Impedance Specificatory (EliS) Measurement and Mobil Personal, Justin Assessing sea-revir lie and Rocking Granges in the Secretamential Impedance Specification (Secretary Notificial seatherwire) Personal, Justin Computer Science & Engineering Jaman Mail Popula Assessing sea-revir lie and Rocking Granges in the Secretamential Secretary (Secretary Notificial seatherwire) Computer Science & Engineering Jaman Mail Popula Assessing sea-revir lie and Rocking Granges in the Secretamential Secretary (Secretary Notificial seatherwire) Computer Science & Engineering Jaman Mail Popula Assessing Science Poundation (NSF) Science Science Foundation (NSF) Science Science Fo				environmentally sustainable lignin-first biorefinery	National Science Foundation (NSF)	\$	860,000
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Computer Science & Engineering Americal Footage American Science & Engineering American Footage Am			Dykstra, Steven	Assessing sea level rise and flooding changes in the Sacramento/San, loaguin Delta using historical water level			
Imman, Japan					California Polytechnic State University/US Bureau of Reclamation/DOI	\$	40,529
Computer Science & Engineering Almahol, Popyan Supplier Partners on the Rise Assessment of Levee Breach National Science Foundation (NSF) Supplier Science & Engineering Almahol, Popyan Colleborative Research: EAGER: Towards a Design Methodology for Software-Orient Sustainability National Science Foundation (NSF) Supplier (National Science Foundation (NSF) Supplier (Na			Imran, Jasim		,		
All Amerikan Collaborative Research: EAGEF. Towards a Design Methodology for Software-Driven Sustainability National Science Foundation (NSF) \$ 100.				LEAP-HI: A data-driven Fragility Framework for Risk Assessment of Levee Breach	National Science Foundation (NSF)	\$	2,000,000
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CRI: Planning C: Planning to Build Digital Infrastructure for Real-Time. Continual, and Intelligent Transportation Analysis and Management Ana			Jamshidi, Pooyan				
CCR: Remaining - Filtering so Build Digital Infrastructure for Real-Time. Continual, and intelligent Transportation Adaptive and Management About 3 demonstration (INSF) Solution About 3 demonstration (INSF) Development of A New High Transportation Source Metallorganic Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Solution Above 3 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 3 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 3 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 3 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 4 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 4 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 4 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 4 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 4 degree of Chemical Vagor Deposition System (INTS- National Science Foundation (INSF) Above 4 degree of Chemical Vagor Deposition (INSF) Solution 4 deposition of Vagor Deposition of Vagor Deposition of Vagor Deposition of Vagor Deposition (INSF) Above 4 degree of Chemical Vagor Deposition (INSF) Solution 4 deposition of Vagor Deposition (INSF) Solution 4 deposition of Vagor Deposition Of				Collaborative Research: EAGER: Towards a Design Methodology for Software-Driven Sustainability	National Science Foundation (NSF)	\$	100,001
Electrical Engineering Khan, Ast Development of A New High Temperature Source Metalorganic Chemical Vapor Deposition System (HTS: MCCVD) for Next Generation IAND-Vehicles An ARCY Development of A New High Temperature Source Metalorganic Chemical Vapor Deposition System (HTS: MCCVD) for Next Generation IAND-Vehicles An ARCY High Temperature Source Metalorganic Chemical Vapor Deposition System (HTS: MCCVD) for Next Generation IAND-Vehicles An ARCY High Temperature Source Metalorganic Chemical Vapor Deposition System (HTS: MCCVD) for Next Generation IAND-Vehicles Eng. 8. Computing Dean's Office Gholizadeh, Sona GCR. BCSER: Generational Family Patterns, and Engineering Entry and Persistence, A Bowen Family Systems Approach Approach Advert Immostration (NSF) S 349.6 Mechanical Engineering Bearrant, Theodore Fully Autonomous Ominitectional Adaptive Robots for the disinfection and decontamination of transit assets Bearrant, Theodore Fully Autonomous Ominitectional Adaptive Robots for the disinfection and decontamination of transit assets Advert Immostrations Limited Company(DOT) Bearrant, Theodore Fully Autonomous Ominitectional Lab Uf-Battele Goldok Ridge National Laboratory (PRNL)/DOC S Bearrant, Theodore Advert Immostrations Limited Company(DOT) Fully Autonomous Ominitectional Adaptive Robots for Aerostructural Sensing and Control Pile Matthew Godolskiy - GRF 2022-32 Impection Influenced Menufacturing: Characterization of an Automated Rober Placement System Approximate Autonomous Demonstration Remarks Reduced Order Models for Aerostructural Sensing and Control Approximate Autonomous Demonstration Remarks Autonomous Demonstration Remarks Advert Immostration Remarks Autonomous Demonstration Remarks Autonomous Demonstration Remarks Autonomous Demonstration Remarks Reduced Order Models for Aerostructural Sensing and Control Approximate Autonomous Demonstration Remarks Reduced Order Models for Aerostructural Sensing and Control Approximate Autonomous Demonstration Remarks Reduced Order Models			Zhang, Qi				
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Man, Asif Development of A New High Temperature Source Metalorganic Chemical Vapor Deposition System (HTS-MOCV) for Next Generation IMAS-Nitrides National Science Foundation (NSF) \$ 623.6		Electrical Engineering		Analysis and management	Ivational Science Foundation (NSF)	9	93,702
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Zhang, Bin							
Eng. & Computing Dean's Office Eng. & Computing Dean's Office				MOCVD) for Next Generation IIIA/B-Nitrides	National Science Foundation (NSF)	\$	629,656
Eng. & Computing Dean's Office Gholizadeh, Sona ECR: BCSER: Generational Family Patterns, and Engineering Entry and Persistence, A Bowen Family Systems Approach Banerjee, Sourav Fully Autonomous Ominidrectional Adaptive Robots for the disinfection and decontamination of transit assets Besmann, Theodore Joint Appointment with Oak Ridge National Lab UT-Battelle circ Oak Ridge National Laboratory (ORNL)/DOE \$ 68.5 Wang, Yi Configurable Parametric Aeroservoelastic Reduced Order Models for Aerostructural Sensing and Control Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning Numerical investigation of freckling in the Vaccum Arc Remelting process Toty Insustries, LLC dba ATI Specially Materials Substance P-Mediated Enhancement of Salience for Cues Predicting Aversive Outcomes National Cancer Institute (NCI)NIH \$ 3,043.0 National Cancer Institute (NCI)NIH \$ 3,043.0			Zhang, Bin				
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ECR: BCSEF: Generational Family Patterns, and Engineering Entry and Persistence; A Bowen Family Systems Approach Mechanical Engineering Baneljee, Sourav Fully Autonomous Omnidirectional Adaptive Robots for the disinfection and decontamination of transit assets Besmann, Theodore Joint Appointment with Oak Ridge National Lab Hank, Ramy (Pr. Mattew Godboid) - GRF 2022-23: Inspection Influenced Manufacturing: Characterization of an Automated Fiber Placement System (College of Charleston/SC Space Grant Consortium/NASA) Configurable Parametric Aeroservoelastic Reduced Order Models for Aerostructural Sensing and Control Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning College of Pharmacy Drug Discovery & Biomed Sci. Francis, Tanner Substance P-Mediated Enhancement of Salience for Cues Predicting Aversive Outcomes National Institute of Mental Health (NIMH)NIH \$ 3,043.05 The Preventing adaptive drug resistance through Mediator kinase inhibition National Cancer Institute (NISF) National Science Foundation (NISF) \$ 349.95 Advent Innovations Limited Company/DOT \$ 100.00 \$ 400.		Eng. & Computing Dean's Office	0			_	
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Banerjee, Sourav Fully Autonomous Omnidirectional Adaptive Robots for the disinfection and decontamination of transit assets Advent Innovations Limited Company)DOT \$ 100,000		Mechanical Engineering			` ′		-,-,-
Fully Autonomous Omnidirectional Adaptive Robots for the disinfection and decontamination of transit assets Besmann, Theodore Joint Appointment with Oak Ridge National Lab Harik, Ramy [Pt. Matthew Godboid] - GRF 2022-23: Inspection Influenced Manufacturing: Characterization of an Automated File Placement System College of Charleston/SC Space Grant Consortium/NASA Wang, Yi Configurable Parametric Aeroservoelastic Reduced Order Models for Aerostructural Sensing and Control [Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning Yuan, Lang Numerical investigation of freckling in the Vaccum Arc Remelting process Drug Discovery & Biomed Sci. Francis, Tanner Substance P-Mediated Enhancement of Salience for Cues Predicting Aversive Outcomes National Cancer Institute (NCI)/NIH \$ 3,043,045,045,045,045,045,045,045,045,045,045			Banerjee, Sourav				
Besmann, Theodore Joint Appointment with Oak Ridge National Lab Harik, Ramy (P: Matthew Godbold) - GRF 2022-23: Inspection Influenced Manufacturing: Characterization of an Automated Fiber Placement System College of Charleston/SC Space Grant Consortium/NASA \$ 16.0 Configurable Parametric Aeroservoe/astic Reduced Order Models for Aerostructural Sensing and Control Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning Numerical investigation of freckling in the Vaccum Arc Remelting process Toty Insustries, LLC dba ATI Specialty Materials \$ 114.7 College of Pharmacy Drug Discovery & Biomed Sci. Francis, Tanner Substance P-Mediated Enhancement of Salience for Cues Predicting Aversive Outcomes National Cancer Institute (NCI)/NIH \$ 3,043.0 Xu, Peisheng							
Joint Appointment with Oak Ridge National Lab Harik, Ramy (Pi: Matthew Godbold) - GRF 2022-23: Inspection Influenced Manufacturing: Characterization of an Automated Fiber Placement System College of Charleston/SC Space Grant Consortium/NASA \$ 16.0 Wang, Yi Configurable Parametric Aeroservoelastic Reduced Order Models for Aerostructural Sensing and Control Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning Yuan, Lang Numerical investigation of freckling in the Vaccum Arc Remetiting process Total Insultation (Insultation Insultation) Practice of Pharmacy Drug Discovery & Biomed Sci. Francis, Tanner Substance P-Mediated Enhancement of Salience for Cues Predicting Aversive Outcomes National Institute of Mental Health (NIMH)NIH Tale, Preventing adaptive drug resistance through Mediator kinase inhibition National Cancer Institute (NCI)NIH \$ 3,043,045,045,045,045,045,045,045,045,045,045		+	Decree Therete	Fully Autonomous Omnidirectional Adaptive Robots for the disinfection and decontamination of transit assets	Advent innovations Limited Company/DOT	\$	100,000
Harik, Ramy (P: Matthew Godbold) - GRF 2022-23: Inspection influenced Manufacturing: Characterization of an Automated Fiber Placement System College of Charleston/SC Space Grant Consortium/NASA \$ 16,0 Configurable Parametric Aeroservoelastic Reduced Order Models for Aerostructural Sensing and Control Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning CFD Research Corporation/NASA \$ 35,8 CFD Research Corporation/NASA \$ 43,8 CFD Research Corporation/NASA \$ 43,8 CFD Research Corporation/NASA \$ 43,8 CFD Research Corporation/NASA \$ 45,8 CFD Research Corporation/NASA \$ 45,8 CFD Research C	<u> </u>		⊭esmann, i neodore	laint Annaintment with Oak Didge National Lab	LIT Pottelle ele Oak Bidge National I -ht /OBNII /DOC	_	00.570
Pi-Matthew Godbold) - GRF 2022-23: Inspection Influenced Manufacturing: Characterization of an Automated Fiber Placement System College of Charleston/SC Space Grant Consortium/NASA \$ 16,0			Harik Damu	Joint Appointment with Oak Riage National Lab	O 1-Dattelle C/O Oak Kloge National Laboratory (UKNL)/DUE	\$	68,572
Fiber Placement System College of Charleston/SC Space Grant Consortium/NASA Wang, Yi Configurable Parametric Aeroservoelastic Reduced Order Models for Aerostructural Sensing and Control Improving Data Assimilation in Numerical Weather Prediction of Winter Cyclones using Artificial Intelligence and Machine Learning Yuan, Lang Yuan, Lang Numerical investigation of freckling in the Vaccum Arc Remelting process TDY Insustries, LLC dba ATI Specialty Materials \$ 114,7 College of Pharmacy Drug Discovery & Biomed Sci. Francis, Tanner Substance P-Mediated Enhancement of Salience for Cues Predicting Aversive Outcomes National Institute of Mental Health (NIMH)NIH \$ 734,5 Preventing adaptive drug resistance through Mediator kinase inhibition National Cancer Institute (NCI)NIH \$ 3,043,0		1	панк, пану	(Pl: Matthew Godbold) - GRF 2022-23: Inspection Influenced Manufacturing: Characterization of an Automated			
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			Community Pharmacy-Provided Maternal Health Services Training and Implementation Toolkit Program Pilot	Educational Trust/SC DHHS	\$	105,975
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			An online toolkit for tourism success post-pandemic	(DOC)	\$	144,000
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	T dan, Miloropio. a militariology	Busbee, Philip				
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