

Sponsored Programs Proposal Submission Report

For the period July 1, 2019 to June 30, 2020



<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
020 Acad Affairs/Provost						
Nancy Stamp	IGE: Translational Research in Ecology and Environmental Science (TREES)	National Science Foundation	20%	\$96,593	8/1/2020	7/31/2023
Nancy Um	COVID: Critical Support for Foreign Language Instruction at Binghamton University	National Endowment for the Humanities	100%	\$300,000	7/1/2020	6/30/2021
Valerie Imbruce	Beckman Scholars Program 2021	Arnold and Mabel Beckman Foundation	100%	\$573,000	6/1/2021	5/31/2024
			Total # Credited	2.20		
			Total \$ Credited	\$969,593		
020 Academic Affairs/Library Services						
Amy Gay	COVID: Center for the Study of the 1960s: McKiernan Oral Interview Collection	Institute of Museum and Library Services	100%	\$328,792	9/1/2020	8/31/2022
Heather Parks	2019-2020 Conservation & Preservation Program Grant	NYS Education Department	100%	\$61,955	4/1/2019	3/31/2020
James Galbraith	Library Collections 2019 - 2020	NYS Education Department	100%	\$21,991	7/1/2019	6/30/2020
			Total # Credited	3.00		
			Total \$ Credited	\$412,738		
020 Anthropology						
Carl Lipo	Eco-Educators: A Binghamton University-Community Partnership for a Healthier Chesapeake Bay Watershed	Environmental Protection Agency	10%	\$10,000	1/1/2021	12/31/2021
Elizabeth Digangi	Doctoral Dissertation Research: Support for Helen Brandt: A Virtual Anthropological Approach to the Study of Commingled Human Remains	National Science Foundation	100%	\$25,331	9/1/2020	8/31/2021

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Elizabeth Digangi	A Virtual Anthropological Approach to the Study of Commingled Human Remains - Brandt	National Institute of Justice	100%	\$138,703	7/1/2020	6/30/2023
Elizabeth Digangi	Using Medical Computed Tomography Scans to Understand Admixture and Contextualize Ancestry Estimates in the United States - Dew	National Institute of Justice	100%	\$65,349	1/1/2021	12/31/2022
Elizabeth Digangi	Investigating Cranial Gunshot Trauma and the Persistence of Gunshot Residues: Contributions from Forensic Anthropology and Criminalistics	National Institute of Justice	100%	\$677,025	6/1/2021	5/31/2024
J Koji Lum	FW-HTF-P: Redefining Work and the Social Value System in the Post AI Era: Exploring Lessons from Traditional Economies of Vanuatu	National Science Foundation	50%	\$75,000	1/1/2021	12/31/2021
Katherine Maclaren	Collaborative Research: Determining the contribution of gender inequality to the male-female obesity disparity	Cleveland Museum of Natural History	100%	\$52,454	1/15/2020	1/14/2023
Katherine Maclaren	The Neighborhoods Project	Steven and Alexandra Cohen Foundation Incorporated	50%	\$592,478	1/1/2020	12/31/2022
Katherine Wander	Child Health and Development in Kilimanjaro: The Immune System of Milk	Johnson and Johnson	100%	\$150,000	1/1/2020	12/31/2022
Katherine Wander	Layers of Risk: Using System Dynamics Modeling to Integrate Geospatial, Ecological, and Human Behavioral Factors Affecting Tick-borne Disease Transmission in Built Environments	National Science Foundation	25%	\$612,501	6/1/2020	5/31/2024
Katherine Wander	Biocultural Investigation of the Sex-Based Obesity Disparity During Health Transition in a Low-Income Country	New Mexico State University	100%	\$100,000	6/1/2020	5/31/2025
Katherine Wander	Maternal Double-Burden Malnutrition and Quality of Mother's Milk in Kilimanjaro, Tanzania: Do Obese Mothers With Nutritional Deficiency Produce Low Nutrient Milk?	Michigan State University	100%	\$147,945	1/1/2021	12/31/2022
Katherine Wander	COVID: Role of PA4878 in biofilm antimicrobial resistance: Model to Return Binghamton Campus to Post-COVID 19 Normalcy	National Institute of Allergy & Infectious Disease	20%	\$157,000	5/1/2020	4/30/2021

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Katherine Wander	COVID RAPID Iron Nutrition and Infectious Disease: COVID-19 Risk among Healthcare Workers	National Science Foundation	100%	\$200,000	4/1/2020	3/31/2021
Katherine Wander	COVID-19: Development and Implementation of a Return-to-campus Public Health Model	Pfizer Foundation	20%	\$60,000	6/1/2020	5/31/2021
Katherine Wander	Collaborative Research: Determining the contribution of gender inequality to the male-female obesity disparity	National Science Foundation	100%	\$58,818	1/15/2021	1/14/2024
Matthew Sanger	Battles of Stone Arabia and Klock's Field	Fort Plain Museum	25%	\$10,786	7/31/2019	7/30/2021
Michel Shamoon-Pour	Layers of Risk: Using System Dynamics Modeling to Integrate Geospatial, Ecological, and Human Behavioral Factors Affecting Tick-borne Disease Transmission in Built Environments	National Science Foundation	25%	\$612,501	6/1/2020	5/31/2024
Ralph Garruto	Layers of Risk: Using System Dynamics Modeling to Integrate Geospatial, Ecological, and Human Behavioral Factors Affecting Tick-borne Disease Transmission in Built Environments	National Science Foundation	25%	\$612,501	6/1/2020	5/31/2024
Ralph Garruto	The Neighborhoods Project	Steven and Alexandra Cohen Foundation Incorporated	50%	\$592,478	1/1/2020	12/31/2022
Ralph Garruto	Molecular Mechanisms and Implications of TDP-43 Pathology-Induced Genome Repair Defects in Alzheimer's Disease and Related Dementia: Development of DNA Repair-Targeted Therapy	Houston Methodist Hospital	100%	\$65,328	6/1/2020	5/31/2025
Randy McGuire	Doctoral Dissertation Research: A GIS Model of the La Playa Cultural Landscape from the Early Agricultural Period through the Formative Trincheras Tradition	National Science Foundation	100%	\$20,392	2/1/2020	7/31/2021

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Randy McGuire	Doctoral Dissertation Research: A GIS Model of La Playa Settlement Patterns and Environmental Modifications from the Early Agricultural Period through the Formative Trincheras Tradition	National Science Foundation	100%	\$14,491	9/15/2020	3/14/2022
Ruth Van Dyke	Condition Assessments and Emergency Treatment of Maintained Archaeological Sites on Chacra Mesa	National Park Service	100%	\$90,000	5/15/2020	5/14/2021
William Isbell	Doctoral Dissertation Research: Salt of the earth, a key element for shaping an Afro-Ecuadorian community in the Chota-Mira Valley	National Science Foundation	100%	\$31,322	1/1/2021	12/31/2021

Total # Credited **18.00**
Total \$ Credited **\$5,172,400**

020 Art History

Nancy Um	Indian Ocean Exchanges	Getty Grant Program	100%	\$250,000	9/1/2021	8/31/2023
			Total # Credited	1.00		
			Total \$ Credited	\$250,000		

020 Arts and Sciences Dean

Sean Massey	LGBT Health and Human Services	NYS Department of Health	100%	\$10,106	3/18/2020	3/17/2021
			Total # Credited	1.00		
			Total \$ Credited	\$10,106		

020 Biological Sciences

Caitlin Light	Effect of Hyaluronic Aid and cis-2-decenoic Acid on Porphyromonas gingivalis Biofilms	Dr. Gary Jernberg	100%	\$19,083	9/1/2019	8/31/2020
Caitlin Light	REU: Site: Semi-structured Early Research Experience in Microbial Biofilms: Focus on STEM Career Development Through Research in Biofilm Dev., Resistance, and Community Structure	National Science Foundation	90%	\$310,495	1/1/2020	12/31/2022

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Claudia Marques	Effect of Microbial Colonization and Tissue Invasion on EB Infection Onset and Wound Healing Interference	Department of Defense (CDMRP)	50%	\$157,000	1/1/2021	12/31/2022
James Sobel	Collaborative Research: The Processes That Shape the Genomic Landscape of Speciation Across Time, Space and Ecology	National Science Foundation	100%	\$548,042	9/1/2020	8/31/2023
James Sobel	Dimensions US-China: Collaborative Research: Coevolutionary Diversification in Old- and New-World Astragalus, the Most Species Rich Genus of Flowering Plants	National Science Foundation	100%	\$578,669	10/1/2020	9/30/2025
Jeffrey Schertzer	R21: Pathogen Synergy Through Cross-Species Induction of Outer Membrane Vesicle Biogenesis	National Institute of Allergy & Infectious Disease	100%	\$364,570	7/1/2020	6/30/2022
Jeffrey Schertzer	R15: Small-molecule Membrane Interactions as a Driver of Bacterial Outer Membrane Vesicle Biogenesis Across Species	National Institute of General Medical Sciences	50%	\$224,100	7/1/2020	6/30/2023
Jeffrey Schertzer	Bacterial Outer Membrane Vesicles: Formation, Delivery and Community Interactions	National Institute of General Medical Sciences	34%	\$2,453,828	4/2/2021	4/1/2026
Jessica Hua Meindl	CAREER: Evolutionary Disease Ecology: Can Evolutionary Responses to Global Change Cryptically Modify the Biodiversity-Disease Risk Relationship?	National Science Foundation	100%	\$966,983	8/1/2020	7/31/2025
Jessica Hua Meindl	IGE: Translational Research in Ecology and Environmental Science (TREES)	National Science Foundation	20%	\$96,593	8/1/2020	7/31/2023
Jessica Hua Meindl	Eco-Educators: A Binghamton University-Community Partnership for a Healthier Chesapeake Bay Watershed	Environmental Protection Agency	10%	\$10,000	1/1/2021	12/31/2021
Jessica Hua Meindl	BII-Implementation: Interdisciplinary Investigation of the Relationship Between Ecosystems and Mechanisms of Trait Evolution	Florida Atlantic University	100%	\$1,149,996	8/1/2020	7/31/2025
Jessica Hua Meindl	Transformation of Farm Waste to High Performance Biofuel and Fertilizer	USDA Agricultural Research Service	33%	\$165,000	6/1/2020	5/31/2022
Karin Sauer	COVID-19: Development and Implementation of a Return-to-campus Public Health Model	Pfizer Foundation	20%	\$60,000	6/1/2020	5/31/2021

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Karin Sauer	COVID: Role of PA4878 in biofilm antimicrobial resistance: Model to Return Binghamton Campus to Post-COVID 19 Normalcy	National Institute of Allergy & Infectious Disease	20%	\$157,000	5/1/2020	4/30/2021
Karin Sauer	REU: Site: Semi-structured Early Research Experience in Microbial Biofilms: Focus on STEM Career Development Through Research in Biofilm Dev., Resistance, and Community Structure	National Science Foundation	10%	\$34,499	1/1/2020	12/31/2022
Karin Sauer	Molecularly-Imprinted Material for Treatment of Biofilm Infections via Pyruvate Depletion	National Institute of Allergy & Infectious Disease	100%	\$317,900	10/1/2020	9/30/2025
Karin Sauer	Dispersion and the Biofilm Matrix of Pseudomonas aeruginosa	National Institute of Allergy & Infectious Disease	100%	\$2,749,104	9/1/2020	8/31/2025
Kathleen Horwath	Addressing Transportation Hurdles Impacting Upward Mobility	Bill and Melinda Gates Foundation	100%	\$100,000	5/1/2020	4/30/2021
Kirsten Prior	IGE: Translational Research in Ecology and Environmental Science (TREES)	National Science Foundation	20%	\$96,593	8/1/2020	7/31/2023
Laura Cook	Fellowship Support for Lamar Thomas: Investigation of Group B Streptococcus Protein Sak_1753	National Institutes of Health	100%	\$120,864	7/1/2020	6/30/2024
Laura Cook	Characterization of the Regulation and Role of a Potential GBS Vaccine Candidate	National Institute of Allergy & Infectious Disease	100%	\$1,857,037	1/1/2021	12/31/2025
Laura Cook	F31: Fellowship Support for Lamar Thomas: Investigation of Group B Streptococcus Protein Sak_1753	National Institute of Allergy & Infectious Disease	100%	\$122,880	9/1/2020	8/31/2024
Laura Musselman	Fellowship Support for Christie Santoro: The identification and characterization of lipogenic proteins contributing to cardiac lipotoxicity	National Institutes of Health	100%	\$120,864	7/1/2020	6/30/2024
Laura Musselman	Identification of Lipids That Comprise Lipotoxicity	National Inst of Diabetes Digestive Kidney Disease	100%	\$1,564,196	1/1/2021	12/31/2025

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Laura Musselman	A Combined Genetic and Genomic Strategy for Identifying Regulators of Diabetes Complications	National Inst of Diabetes Digestive Kidney Disease	100%	\$1,823,774	7/1/2020	6/30/2025
Laura Musselman	CAREER: Organ-specific roles in the control of systemic metabolic homeostasis	National Science Foundation	100%	\$831,149	7/1/2020	6/30/2025
Laura Musselman	A genomic strategy for identifying new proteins that mediate the effect of diet on diabetes complications	American Diabetes Association	100%	\$341,473	7/1/2020	6/30/2023
Laura Musselman	Administrative Supplement for NIH Grant #R15GM128158: Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet	National Institute of General Medical Sciences	100%	\$7,263	10/15/2019	10/14/2020
Weixing Zhu	Toward a framework for near real time monitoring spatiotemporal surface algae bloom	Great Lakes Research Consortium	50%	\$12,488	4/1/2020	3/31/2022
				Total # Credited	22.07	
				Total \$ Credited	\$17,361,443	

020 Biomedical Engineering

Ahyeon Koh	Lab on the Organ	Johnson and Johnson	100%	\$150,000	6/1/2019	5/31/2022
Ahyeon Koh	Monitoring stem cell differentiation with advanced electronic sensing systems	NYS Department of Health	45%	\$479,520	6/1/2021	5/31/2024
Ahyeon Koh	Engineering a Nephron on a Chip	National Science Foundation	50%	\$200,000	9/1/2020	8/31/2023
Ahyeon Koh	R01: Advanced 3D soft electronic cell culture system for in vitro cardiomyocyte culture	National Institutes of Health	50%	\$992,026	9/1/2020	8/31/2025
Ahyeon Koh	Drug-coated Balloon Catheter with Precise Triggered Drug Delivery	American Heart Association Founders Affiliate	100%	\$291,470	7/1/2020	6/30/2023
Ahyeon Koh	An Economical Device for In-Home Calcium Detection Using Voltammetry or Fluorescent Methods	University of Pennsylvania	50%	\$99,428	1/1/2020	12/31/2020

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Ahyeon Koh	Apolo Project	Sete Digital LTDA	100%	\$106,861	9/1/2019	8/31/2020
Ahyeon Koh	Epifluidics for Stress Monitoring	Nano-Bio Manufacturing Consortium	45%	\$87,279	10/1/2019	9/30/2021
Ahyeon Koh	CAREER: Artificial Extracellular Matrix Biosensors	National Science Foundation	100%	\$525,607	5/26/2020	5/25/2025
Ahyeon Koh	Stretchable Papertronics	National Science Foundation	50%	\$241,552	9/1/2020	8/31/2023
Fake Lu	CAREER: Understanding Dynamics and Interaction of Glioblastoma Invasion and Myelin Disruption Using Ultrasensitive Time-Lapse Stimulated Raman Microscopy	National Science Foundation	100%	\$500,001	7/1/2020	6/30/2025
Fake Lu	Low-Power Stimulated Raman Time-Lapse Microscope for Tracking Dynamics and Fate of Lipid Droplets in Glioma Cells	National Institutes of Health	90%	\$395,686	2/1/2021	1/31/2024
Fake Lu	R15: Low-Power Stimulated Raman Time-Lapse Microscope for Tracking Dynamics and Fate of Lipid Droplets in Glioma Cells	National Inst of Biomedical Imaging and Bioenginee	100%	\$433,323	10/1/2020	9/30/2023
Fake Lu	R01 Exploiting the Hydrophobic Glycosyl Pocket of igg1 for Imaging and Drug Delivery Applications	National Institute of General Medical Sciences	25%	\$482,075	11/1/2020	10/31/2025
Gretchen Mahler	Mechanobiology of Myofibroblast Behavior in Health and Disease Supplement	National Science Foundation	100%	\$4,000	9/23/2019	9/22/2020
Gretchen Mahler	Fellowship Support for Melissa Mendoza: Three-dimensional Valve-on-a-chip Models of the Aortic Valve Fibrosa	American Heart Association Incorporated	100%	\$62,032	1/1/2020	12/31/2021
Gretchen Mahler	Empire State Development's Life Science Initiative	NYS Department of Economic Development	33%	\$16,500	2/3/2020	2/2/2021
Gretchen Mahler	Engineering a Nephron on a Chip	National Science Foundation	50%	\$200,000	9/1/2020	8/31/2023
Gretchen Mahler	U-RISE at SUNY Binghamton University	National Institute of General Medical Sciences	33%	\$1,341,572	8/15/2021	8/14/2026
Guy German	Preventing Rolling Veins	VentureWell	100%	\$5,000	12/1/2019	11/30/2020

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Guy German	Effect of Microbial Colonization and Tissue Invasion on EB Infection Onset and Wound Healing Interference	Department of Defense (CDMRP)	50%	\$157,000	1/1/2021	12/31/2022
Guy German	COVID RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	National Science Foundation	30%	\$54,818	5/5/2020	5/4/2021
Guy German	Development of cosmetically acceptable and gentle materials/methods that impact the mechanics of the epidermis.	Estee Lauder Corporation	100%	\$335,753	3/1/2020	2/29/2024
Guy German	REU supplement to NSF CAREER Award 1653071	National Science Foundation	100%	\$16,000	6/1/2020	8/31/2020
Kaiming Ye	Decoding Rules of Organogenesis from iPSCs	National Institutes of Health	40%	\$967,668	4/1/2021	3/31/2026
Kaiming Ye	The 2020 Advanced Biomanufacturing Conference	National Science Foundation	100%	\$24,000	9/1/2019	8/31/2020
Kaiming Ye	Generate Physiologically Functional Islets from iPSCs	NYS Department of Health	50%	\$522,997	6/1/2021	5/31/2024
Kaiming Ye	EAGER: SARS-CoV-2 Pseudovirus via a novel eukaryotic construction in yeast	National Science Foundation	100%	\$25,476	8/1/2020	7/31/2022
Kaiming Ye	Signaling molecules regulate islet organogenesis	NYS Department of Health	30%	\$256,403	6/1/2021	5/31/2024
Kaiming Ye	RECODE: Decoding Rules Governing the Progression of Pancreatogenesis from iPSCs to Islet Organoids	National Science Foundation	38%	\$498,624	11/1/2020	10/31/2024
Kaiming Ye	COVID RAPID: Ultraviolet Germicidal Irradiation for Disinfecting and Reuse of N95 Respirators	National Science Foundation	70%	\$127,910	5/5/2020	5/4/2021
Kaiming Ye	R01: Regeneration of intra-islet vascularized pancreatic endocrine organoids from iPSCs	National Institutes of Health	50%	\$1,579,018	9/1/2020	8/31/2025
Kaiming Ye	MRI: Acquisition of A Cryo Focused Ion Beam Scanning Electron Microscope (Cryo-SEM) for Life Science and Materials Science Research and Training at SUNY Binghamton	National Science Foundation	50%	\$962,530	8/1/2020	7/31/2023

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Kaiming Ye	R01: Role of angiogenic factors in islet development	National Institutes of Health	20%	\$308,528	10/1/2020	9/30/2024
Sha Jin	Decoding Rules of Organogenesis from iPSCs	National Institutes of Health	40%	\$967,668	4/1/2021	3/31/2026
Sha Jin	MRI: Acquisition of A Cryo Focused Ion Beam Scanning Electron Microscope (Cryo-SEM) for Life Science and Materials Science Research and Training at SUNY Binghamton	National Science Foundation	25%	\$481,265	8/1/2020	7/31/2023
Sha Jin	Generate Physiologically Functional Islets from iPSCs	NYS Department of Health	50%	\$522,997	6/1/2021	5/31/2024
Sha Jin	Signaling molecules regulate islet organogenesis	NYS Department of Health	60%	\$512,806	6/1/2021	5/31/2024
Sha Jin	R01: Regeneration of intra-islet vascularized pancreatic endocrine organoids from iPSCs	National Institutes of Health	50%	\$1,579,018	9/1/2020	8/31/2025
Sha Jin	R01: Role of angiogenic factors in islet development	National Institutes of Health	70%	\$1,079,848	10/1/2020	9/30/2024
Sha Jin	RECODE: Decoding Rules Governing the Progression of Pancreatogenesis from iPSCs to Islet Organoids	National Science Foundation	38%	\$498,624	11/1/2020	10/31/2024
Tracy Hookway	Contributions of Epicardial Secretome on Cardiac Microtissue Function	American Heart Association Incorporated	100%	\$154,000	1/1/2020	12/31/2021
Tracy Hookway	Fellowship Support for Kirk Butler: 2020 AHA Predoctoral Fellowship	American Heart Association Incorporated	100%	\$62,032	1/1/2020	12/31/2021
Tracy Hookway	Engineering a Biological Pacemaker	Johnson and Johnson	100%	\$150,000	6/1/2020	5/31/2023
Tracy Hookway	The role of ECM on epicardial phenotype	American Heart Association Incorporated	100%	\$231,000	4/1/2020	3/31/2023
Tracy Hookway	R15: Heterotypic Impacts of epicardial cells on engineered cardiac microtissue function	National Institutes of Health	100%	\$450,480	7/1/2020	6/30/2023
Tracy Hookway	R01: Advanced 3D soft electronic cell culture system for in vitro cardiomyocyte culture	National Institutes of Health	50%	\$992,026	9/1/2020	8/31/2025
Tracy Hookway	Monitoring stem cell differentiation with advanced electronic sensing systems	NYS Department of Health	45%	\$479,520	6/1/2021	5/31/2024

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Yuan Wan	SONY: Life Science Bioassays and Molecular Probes	Sony Corporation	100%	\$100,000	2/3/2020	2/2/2021
Yuan Wan	Low-Power Stimulated Raman Time-Lapse Microscope for Tracking Dynamics and Fate of Lipid Droplets in Glioma Cells	National Institutes of Health	10%	\$43,965	2/1/2021	1/31/2024
Yuan Wan	Signaling molecules regulate islet organogenesis	NYS Department of Health	10%	\$85,468	6/1/2021	5/31/2024
Yuan Wan	R01: Role of angiogenic factors in islet development	National Institutes of Health	10%	\$154,264	10/1/2020	9/30/2024
Yuan Wan	R01: Liquid biopsy of solitary pulmonary nodule with extracellular vesicles	National Inst of Biomedical Imaging and Bioenginee	100%	\$2,876,230	10/1/2020	9/30/2025
Yuan Wan	R21: A simple robust device for rapid efficient isolation of pure extracellular vesicles toward clinical implementation	National Cancer Institute	100%	\$568,230	1/4/2021	1/3/2024
Yuan Wan	R01: A reliable device for rapid efficient isolation of pure extracellular vesicles derived from cancer cells in microgravity for comprehensive molecular analyses	National Institutes of Health	100%	\$1,771,680	8/1/2020	7/31/2023
Yuan Wan	Generation Mechanism of DNA-loaded Extracellular Vesicles From Cells Under Mechanical Stress	National Science Foundation	100%	\$299,013	7/1/2020	6/30/2023
Yuan Wan	R01: Biogenesis, Composition, Metastatic Potential, and Preclinical Translation of DNA-Loaded Small Extracellular Vesicles Generated from Tumor Cells Under Biomechanical Stress	National Institutes of Health	100%	\$2,137,083	8/1/2020	7/31/2024
				Total # Credited	38.06	
				Total \$ Credited	\$28,647,873	

020 CCPA Deans Office

Casey Pulz	Binghamton University Community Schools Summer Zone 2020	Mothers and Babies Perinatal Network of South Cent	100%	\$13,095	7/1/2020	6/30/2021
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Laura Bronstein	Fifth Regional Training Center on University-Assisted Community Schools (UACS)	University of Pennsylvania	50%	\$25,000	9/1/2020	8/31/2021
LuAnn Kida	Fifth Regional Training Center on University-Assisted Community Schools (UACS)	University of Pennsylvania	50%	\$25,000	9/1/2020	8/31/2021
LuAnn Kida	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology	National Science Foundation	25%	\$69,997	9/1/2020	8/31/2022
LuAnn Kida	Binghamton University Community Schools Summer Zones	Broome County Youth Bureau	100%	\$20,000	7/6/2020	7/5/2021
				Total # Credited	3.25	
				Total \$ Credited	\$153,092	

020 CCPA Human Development

Marguerite Wilson	Deconstructing Whiteness	Spencer Foundation	100%	\$41,444	10/1/2020	9/30/2021
Oscar Gil	UCSF Research in Implementation Sciences for Equity (RISE 2)	University of California at San Francisco	100%	\$10,800	9/1/2019	3/31/2020
				Total # Credited	2.00	
				Total \$ Credited	\$52,244	

020 CCPA Social Work

Kimberly Brimhall	R01: Examining Psychologically Safe Cancer Care Systems to Address Disparities for Rural and Low-Income Populations	National Institute on Minority Health & Health Disparities	50%	\$504,787	1/17/2020	1/16/2023
Laura Bronstein	BUCS Evaluation for United Community Schools	United Community Schools	100%	\$931,260	11/22/2019	11/21/2022
Melissa Hardesty	Profiling Children in the Digital Age	QSR International	100%	\$25,033	4/1/2020	3/31/2022
Stacey Shipe	Fathers in Transition - Moderating Effects of the Responsible Fatherhood Programs	Administration for Children and Families	100%	\$150,000	3/31/2020	3/30/2022
Youjung Lee	GRAND-STEM: Building the Science, Technology, Engineering, and Mathematics (STEM) Competencies of Grandparent-headed Families	National Science Foundation	50%	\$150,000	7/1/2020	6/30/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
			Total # Credited	4.00		
			Total \$ Credited	\$1,761,079		
020 CCPA Student Affairs						
John Zilvinskis	The Mediation Effects of Dual Enrollment on First-Year Engagement for First-Generation Students	University of South Carolina	100%	\$5,001	10/1/2019	10/31/2020
			Total # Credited	1.00		
			Total \$ Credited	\$5,001		
020 CCPA Teaching Learning Educ Leadership						
Amber Simpson	GRAND-STEM: Building the Science, Technology, Engineering, and Mathematics (STEM) Competencies of Grandparent-headed Families	National Science Foundation	50%	\$150,000	7/1/2020	6/30/2022
Amber Simpson	STEM Ways of Thinking	Washington State University	100%	\$75,147	1/1/2021	12/31/2024
Amber Simpson	Scholarship Program for Societal Impacts and Diversity Issues in Cybersecurity	National Science Foundation	33%	\$330,000	9/1/2020	8/31/2025
Amber Simpson	COVID-19: CoBuild-19: RAPIDly building a collaborative network of informal learning organizations	Indiana University	100%	\$10,010	3/23/2020	3/22/2021
Amber Simpson	Collaborative Research: Complicating Notions of Failure in Informal Maker Education Contexts through Reflective Professional Learning	National Science Foundation	100%	\$1,316,032	1/1/2021	12/31/2023
Amber Simpson	Binghamton University GenCyber Teacher Camp	National Security Agency	25%	\$21,362	1/1/2020	12/31/2020
Amber Simpson	Transforming Teacher Collaboration and Pedagogical Practices to Develop Mathematical Thinkers in Secondary Classrooms	National Science Foundation	50%	\$210,439	8/1/2020	7/31/2023
Amber Simpson	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology	National Science Foundation	25%	\$69,997	9/1/2020	8/31/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Amy Humphrey	PREP Project Summer Programming	Mothers and Babies Perinatal Network of South Cent	100%	\$37,460	6/15/2020	6/14/2021
Candace Mulcahy	Transforming Teacher Collaboration and Pedagogical Practices to Develop Mathematical Thinkers in Secondary Classrooms	National Science Foundation	50%	\$210,439	8/1/2020	7/31/2023
Candace Mulcahy	Collaborative Research: MIND-MAPS: Measurement and Intervention for Disabilities in Mathematics	National Science Foundation	100%	\$234,801	9/1/2020	8/31/2024
Candace Mulcahy	PPASSED: Policy and Practice in Alternative Schools Supporting the Education of Youth With Disabilities	University of Helsinki	100%	\$79,789	8/15/2020	8/14/2023
Hoe Kyeong Kim	Educational Testing Service Proposal	Educational Testing Service	100%	\$99,990	3/1/2020	2/28/2022
Loretta Mason-Williams	Project Confluence	Spencer Foundation	100%	\$400,000	9/1/2020	8/31/2023
Loretta Mason-Williams	COVID: Project REVISE	Spencer Foundation	100%	\$48,563	9/1/2020	8/31/2021
Loretta Mason-Williams	Policy & Practice in Alternative Schools Supporting the Education of Youth with Disabilities	University of Helsinki	100%	\$134,286	8/15/2020	8/14/2023
Pamela Sandoval	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$116,250	4/1/2020	3/31/2023
			Total # Credited	12.58		
			Total \$ Credited	\$3,544,564		

020 Chemistry

Brian Callahan	R21: Nano-Editors for Targeted Transcriptome Manipulation	National Institutes of Health	100%	\$423,756	9/1/2020	8/31/2022
Chuan Jian Zhong	Low-cost and high-durability fuel cells	National Science Foundation	100%	\$50,000	10/1/2019	9/30/2020
Chuan Jian Zhong	Controlled synthesis of multi-metallic nanoscale alloys	BASF Corporation	100%	\$146,850	6/1/2019	5/31/2020

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Chuan Jian Zhong	Understanding the dynamic nature of active surface sites of nanoalloy catalysts in catalytic oxidation reactions	National Science Foundation	100%	\$353,900	4/1/2020	3/31/2023
Chuan Jian Zhong	Transformation of Farm Waste to High Performance Biofuel and Fertilizer	USDA Agricultural Research Service	34%	\$170,000	6/1/2020	5/31/2022
Eriks Rozners	2020 Go Green Institute at Binghamton University	Binghamton City School District	100%	\$75,000	4/1/2020	9/30/2020
Eriks Rozners	Chemical Approaches to Control the Function of Regulatory RNAs	National Institute of General Medical Sciences	100%	\$72,446	2/1/2020	1/31/2021
Eriks Rozners	COVID-19 R21 - Functional Control of SARS-Cov-2 RNA Structure Using Triplex-Forming Peptide Nucleic Acids	National Institute of Allergy & Infectious Disease	100%	\$428,330	12/1/2020	11/30/2022
George Meindl	Eco-Educators: A Binghamton University-Community Partnership for a Healthier Chesapeake Bay Watershed	Environmental Protection Agency	10%	\$10,000	1/1/2021	12/31/2021
Hao Liu	Stable oxide-based catalysts for electrochemical carbon dioxide reduction reaction	American Chemical Society	100%	\$110,000	9/1/2020	8/31/2022
Hao Liu	Rational Design of Oxide Cathode Coatings for High Performance Li-ion Batteries	National Science Foundation	34%	\$205,771	9/1/2020	8/31/2023
Hao Liu	Machine Learning-enabled Efficient Navigation of Chemical Spaces for Accelerated Material Designs with Multiple Objective Optimization	Camille and Henry Dreyfus Foundation Incorporated	50%	\$78,266	9/1/2020	8/31/2022
Jiye Fang	Atomic Layer Deposition (ALD) to Achieve Precisely Controlled Growth of Layered 2D Hybrid Organic-Inorganic Halide Perovskite for its Application in Solar Cells	US Department of Energy	30%	\$60,000	1/1/2020	12/31/2020
Jiye Fang	Mitsui Master MTA/CDA, Project 2	Mitsui Mining and Smelting Company Limited	100%	\$469	12/7/2020	12/6/2021
John Swierk	R15 How Tattoos Fade: Understanding the Chemistry and Potential Risks of Photodegraded Tattoos	National Institutes of Health	100%	\$450,480	9/1/2020	8/31/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Julien Panetier	CAREER: Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation	National Science Foundation	100%	\$486,200	7/1/2020	6/30/2025
M Stanley Whittingham	empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier	NYS Energy Research and Development Authority	50%	\$375,000	4/1/2020	3/31/2023
M Stanley Whittingham	MRI: Acquisition of A Cryo Focused Ion Beam Scanning Electron Microscope (Cryo-SEM) for Life Science and Materials Science Research and Training at SUNY Binghamton	National Science Foundation	25%	\$481,265	8/1/2020	7/31/2023
M Stanley Whittingham	Bridging Science and Engineering: Smart Energy Workshop Series	Materials Research Society	100%	\$1,000	1/1/2020	12/31/2020
M Stanley Whittingham	EFRC: Materials Inspired by Nonlinear Neuron Dynamics (MIND)	Texas A M University	33%	\$554,400	9/1/2020	8/31/2024
M Stanley Whittingham	Corning Master AMD 3: Evaluating the Electrochemical Performance of Corning's Novel Sintered-Cathodes.	Corning Incorporated	100%	\$30,000	3/1/2020	2/28/2021
Nikolay Dimitrov	CHIRP: Fine pitch Cu-Sn based Interconnection Below Temperatures of 180oC	Semiconductor Research Corporation	100%	\$150,000	1/1/2020	12/31/2022
Puja Goyal	R15 Renewal : Cell Cycle-Specific Recognition of the Cell Nucleus as Cargo for Dynein-Dependent Transport	National Institute of General Medical Sciences	5%	\$22,524	4/1/2021	3/31/2024
Sozanne Solmaz	R15 Renewal : Cell Cycle-Specific Recognition of the Cell Nucleus as Cargo for Dynein-Dependent Transport	National Institute of General Medical Sciences	95%	\$427,956	4/1/2021	3/31/2024
Susan Bane Tuttle	R01: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	25%	\$385,660	7/1/2020	6/30/2024
Susan Bane Tuttle	R21: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	40%	\$167,228	4/1/2021	3/31/2023
Wei Qiang	Collaborative Research: BMAT: Fabrication of Filamentous Cell Penetrating Peptides as Novel Membrane-Active Biomaterials	National Science Foundation	100%	\$322,537	9/1/2020	8/31/2023
Wei Qiang	Polymorphism-dependence of Neuronal Toxicity in Fibrillar Abeta Variants	Alzheimers Association	100%	\$147,734	5/1/2020	4/30/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Wei Qiang	R01 Cross Seeding Between Beta-Amyloid Fibrillar Variants: A Pathologically Relevant Event that Modulates the Amyloid Molecular Polymorphisms and Neuronal Toxicity	National Institutes of Health	75%	\$1,409,581	9/1/2020	8/31/2025
Wei Qiang	Equipment Supplement for Parent R01 GM125853	National Institutes of Health	100%	\$56,712	6/1/2020	5/31/2021
			Total # Credited	22.06		
			Total \$ Credited	\$7,653,065		

020 Computer Science

Anand Seetharam	CNS Core: Small: A Scalable and Elastic Framework for Real-Time IoT Analytics Applications	National Science Foundation	33%	\$164,442	6/1/2020	5/31/2023
Anand Seetharam	CAREER: Machine Learning Prediction Models and Deep Reinforcement Learning Algorithms for Next Generation Wireless Cache Networks	National Science Foundation	100%	\$524,476	1/1/2020	12/31/2024
Anand Seetharam	MLWiNS: Machine Learning Models for Wireless Channel Prediction and Application-level Performance Improvement	National Science Foundation	50%	\$249,183	7/1/2020	6/30/2023
Anand Seetharam	CNS Core: Small: Design and Analysis of Caching and Forwarding Algorithms for Wireless Cache Networks	National Science Foundation	100%	\$498,456	6/1/2020	5/31/2023
Aravind Prakash	CAREER: Bridging the Semantic Gap through Design-Augmented Binaries	National Science Foundation	100%	\$503,555	1/1/2020	12/31/2024
Aravind Prakash	Delineating C++ Binaries for Vulnerability Detection and Analysis	Google LLC	100%	\$48,300	2/1/2020	1/31/2021
Arti Ramesh	MLWiNS: Machine Learning Models for Wireless Channel Prediction and Application-level Performance Improvement	National Science Foundation	50%	\$249,183	7/1/2020	6/30/2023
Arti Ramesh	CNS Core: Small: A Scalable and Elastic Framework for Real-Time IoT Analytics Applications	National Science Foundation	33%	\$164,442	6/1/2020	5/31/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Dmitry Ponomarev	STC:Core:Medium:Collaborative:Leakage-Free Isolated Execution	National Science Foundation	50%	\$346,804	6/1/2020	5/31/2024
Dmitry Ponomarev	CNS Core:Small: Scalable Event-based Processing on Manycore Clusters	National Science Foundation	50%	\$250,000	6/1/2020	5/31/2023
Guanhua Yan	CAREER: Proactive Techniques for Enhancing Security and Resilience of Mobile Communication Infrastructure	National Science Foundation	100%	\$498,879	9/1/2020	8/31/2025
Hui Lu	CNS Core: Small: A Scalable and Elastic Framework for Real-Time IoT Analytics Applications	National Science Foundation	34%	\$169,425	6/1/2020	5/31/2023
Jeremy Blackburn	The Digital Ecosystem Research Challenge	Concordia University	100%	\$21,551	4/1/2019	3/31/2020
Jeremy Blackburn	Monitoring Cross-platform Trends in Hate Speech	Facebook Incorporated	100%	\$50,000	7/1/2019	6/30/2020
Jeremy Blackburn	Scholarship Program for Societal Impacts and Diversity Issues in Cybersecurity	National Science Foundation	33%	\$330,000	9/1/2020	8/31/2025
Jeremy Blackburn	CCRI: Medium: Collaborative Research: Pushshift: A Multi-Platform Big Social Data Archive for the Post-API Age	National Science Foundation	100%	\$713,315	10/1/2020	9/30/2023
Jeremy Blackburn	Collaborative Research: CHS: Medium: Quantitative Methods to Measure and Model the Hybrid Media System	National Science Foundation	100%	\$375,200	10/1/2020	9/30/2024
Jeremy Blackburn	CRII: CHS: Understanding the Evolution of the Manosphere	National Science Foundation	100%	\$174,998	3/1/2019	2/28/2021
Jeremy Blackburn	Collaborative Research: CHS: Medium: Measuring and Modeling the Manosphere and its Influence on the Web	National Science Foundation	100%	\$387,760	10/1/2020	9/30/2024
Kanad Ghose	A Distributed and Low-Cost Behind-The-Meter Resource Control System	US Department of Energy	15%	\$333,778	6/1/2020	5/31/2023
Kanad Ghose	Proof-of-Concept Development of a Wearable Brain PET Imager	Cornell University	50%	\$18,936	4/1/2020	3/31/2021
Kanad Ghose	Smart Battery Engineering Academy	NYS Energy Research and Development Authority	35%	\$260,441	8/1/2020	7/31/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Kanad Ghose	NVIDIA Corporation 2020 I/UCRC (ES2) Membership Agreement	NVIDIA Corporation	50%	\$4,500	1/1/2020	12/31/2020
Kanad Ghose	R01: Thin-slab detectors to revolutionize performance for next generation brain PET imaging	Cornell University	50%	\$133,675	9/1/2020	8/31/2022
Kanad Ghose	Low-Cost, Low-Dose, Advanced Brain PET System (Sub-in SBIR LightSpin)	LightSpin Technologies Incorporated	80%	\$276,000	1/1/2021	12/31/2023
Kartik Gopalan	Improving Performance and Live Migration for Bare-metal Clouds	ITRI International Incorporated	100%	\$100,000	11/30/2019	11/29/2020
Kartik Gopalan	CNS Core: Small: Virtualization for Bare-Metal Cloud: Towards Unifying Performance, Isolation, and Manageability	National Science Foundation	60%	\$299,999	6/1/2020	5/31/2023
Kenneth Chiu	CNS Core:Small: Scalable Event-based Processing on Manycore Clusters	National Science Foundation	50%	\$250,000	6/1/2020	5/31/2023
Kenneth Chiu	SUNY Fredonia Subaward: Harmful Algae Bloom Drone Surveillance Project	Research Foundation of State University of NY	100%	\$16,380	9/1/2019	12/31/2020
Kyoung-Don Kang	CNS Core: Small: Toward Real-Time Stream Processing at the Edge	National Science Foundation	100%	\$500,000	6/1/2020	5/31/2023
Lei Yu	Learning Robust and Accurate Multiphysics/Multiscale Simulators Using Deep Reinforcement Learning (SUB - GE/DARPA)	GE Global Research Center	100%	\$157,976	4/13/2020	10/12/2021
Lei Yu	Stability Impact Analysis of New York Power Grid with Ultra-high Penetration of Inverter-interfaced Energy Resources	New York State Energy Research and Development Authority	40%	\$160,000	1/1/2021	12/31/2022
Lei Yu	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	US Department of Energy	25%	\$644,950	1/1/2021	12/31/2023
Lijun Yin	Multimodal emotion analysis	Amazon.com	100%	\$71,400	1/1/2020	12/31/2020
Lijun Yin	SCH:INT:Collaborative Research:Assessment of Chronic Low Back Pain using Multimodal Biomarker Sensing, Transfer Learning and Behavioral Sign	National Science Foundation	50%	\$332,976	9/1/2020	8/31/2024

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Lijun Yin	AI Institute: AI-Enabled Scalable, Sustainable, and Personalized Lifelong Learning for All	University of Illinois at Chicago	100%	\$880,475	8/16/2020	8/15/2025
Lijun Yin	COVID: Integrated Multiarray Biosensors with Machine Learning for Early Detection and Accurate Screening of Coronavirus	New Jersey Institute of Technology	100%	\$45,070	9/1/2020	8/31/2021
Mo Sha	CNS Core: Small: Securing Industrial Wireless Sensor-Actuator Networks against Selective Jamming Attacks	National Science Foundation	100%	\$365,087	6/1/2020	5/31/2023
Mo Sha	CAREER: Towards Scalable and Adaptive Industrial Wireless Sensor-Actuator Networks	National Science Foundation	100%	\$499,987	5/1/2020	4/30/2025
Mo Sha	Collaborative Research: MLWiNS: Adapting Network Configuration Model from Simulation to Real Deployment through Meta-Learned Domain Generalization	National Science Foundation	100%	\$264,552	6/1/2020	5/31/2023
Patrick Madden	SHF: Small: Detailed Physical Design Unification	National Science Foundation	100%	\$500,000	6/1/2020	5/31/2023
Ping Yang	CNS Core: Small: Virtualization for Bare-Metal Cloud: Towards Unifying Performance, Isolation, and Manageability	National Science Foundation	40%	\$200,000	6/1/2020	5/31/2023
Ping Yang	Binghamton University GenCyber Teacher Camp	National Security Agency	50%	\$42,723	1/1/2020	12/31/2020
Shiqi Zhang	Learning to Augment Reality for Human-Robot Collaboration	Google LLC	100%	\$50,000	2/1/2020	1/31/2021
Shiqi Zhang	Human-Robot Collaboration through Multi-turn Augmented Reality-based Communication	Amazon.com	100%	\$55,010	2/1/2020	1/31/2021
Shiqi Zhang	RI: Small: Long-term, Shared Autonomy with Augmented 360-Degree Vision for Mobile Telepresence Robotics	National Science Foundation	50%	\$250,000	10/1/2020	9/30/2023
Shiqi Zhang	Collaborative Research: NRI: FND: Robot Online Predicate Learning and Acquisition in Human-Inhabited Environments	National Science Foundation	100%	\$362,198	10/1/2020	9/30/2023
Shiqi Zhang	Collaborative Research: NRI: FND: Persuasive Real Estate Agent Robots with Verbal and Nonverbal Personality Adaptation	National Science Foundation	100%	\$248,766	9/1/2020	8/31/2023

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Shiqi Zhang	COVID: REU Supplement for Award 1925044	National Science Foundation	100%	\$16,000	6/1/2020	5/31/2021
Weiyi Meng	Collaborative Research: III: Medium: Sentiment Analysis in Label Scarce Settings: Leverage Lexicon Integration for Novel Machine Learning Methods	National Science Foundation	49%	\$378,268	10/1/2020	9/30/2024
Weiyi Dai	Collaborative Research: CRCNS Research Proposal: Global integration of brain functional networks	National Science Foundation	87%	\$539,402	9/1/2020	8/31/2023
Weiyi Dai	Role of Fiber Tracts in the Folding Patterns of the Human Fetal Brain	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	50%	\$212,125	4/1/2021	3/31/2023
Weiyi Dai	R21: Improving functional MRI in schizophrenia	Stony Brook University	100%	\$156,709	4/1/2021	3/31/2023
Weiyi Dai	R21: Statistical Learning Approaches on Multi-modality MRI for Diagnosis of Bipolar Disorder	National Institute of Mental Health	100%	\$393,218	9/1/2020	8/31/2022
Weiyi Dai	R21: Brain Reverse Engineering: The Early-Stage Diagnosis of the Structural Discrepancies of Autism Spectrum Disorder (ASD)	National Institute of Mental Health	50%	\$197,920	9/1/2020	8/31/2022
Weiyi Dai	Pupillary dynamics as a biomarker of locus coeruleus integrity and neurocognitive aging	Cornell University	100%	\$154,008	10/1/2020	9/30/2025
Weiyi Dai	CAREER: Computational modeling of resting brain function	National Science Foundation	100%	\$551,384	9/1/2020	8/31/2025
Weiyi Dai	Probing the role of a frontotemporal neurocircuit in lithium responsiveness of bipolar depression	Stony Brook University	100%	\$97,134	9/1/2020	8/31/2025
Yao Liu	COVID 19: RAPID: Collaborative Research: Maximizing Social Distancing via Video-assisted, Depth-augmented Tele-health with Off-the-shelf Devices	National Science Foundation	100%	\$96,822	4/15/2020	4/14/2021
Yao Liu	CAREER: System Research to Enable Practical Immersive Streaming: From 360-Degree Towards Volumetric Video Delivery	National Science Foundation	100%	\$486,169	3/1/2020	2/28/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Yao Liu	Exploring Adaptive Representations for High Quality Immersive Video Streaming	Sony Corporation	100%	\$100,000	5/1/2020	4/30/2021
Yao Liu	Focused Representations for WebRTC-based 360-degree Video Communication	Google LLC	100%	\$48,300	2/1/2020	1/31/2021
Yao Liu	Collaborative Research: CNS Core: Small: From Capture to Consumption: System Challenges in Pervasive 360-Degree Video Sharing	National Science Foundation	100%	\$249,999	7/1/2020	6/30/2023
Yao Liu	RI: Small: Long-term, Shared Autonomy with Augmented 360-Degree Vision for Mobile Telepresence Robotics	National Science Foundation	50%	\$250,000	10/1/2020	9/30/2023
Yifan Zhang	CAREER: Enabling Edge-hosted Private Services via Unikernel-based Lightweight Virtualization	National Science Foundation	100%	\$485,244	7/1/2020	6/30/2025
Yu David Liu	STC:Core:Medium:Collaborative:Leakage-Free Isolated Execution	National Science Foundation	50%	\$346,804	6/1/2020	5/31/2024
Yu David Liu	Collaborative Research: SHF: Small: Principled Energy Management across Applications and Operating Systems	National Science Foundation	100%	\$249,955	10/1/2020	9/30/2023
Yu David Liu	Post-Doc on Award 82202	National Science Foundation	100%	\$57,336	6/1/2019	5/31/2020
Zhongfei Zhang	Collaborative Research: III: Medium: Sentiment Analysis in Label Scarce Settings: Leverage Lexicon Integration for Novel Machine Learning Methods	National Science Foundation	49%	\$378,268	10/1/2020	9/30/2024
Zhongfei Zhang	III:Small:Low-Shot Learning with Complex Data	National Science Foundation	100%	\$499,999	6/1/2020	5/31/2023
Zhongfei Zhang	AI Institute: Planning: SUNY NSF Institute for Multidisciplinary Research and Innovation in Trustworthy AI	SUNY at Buffalo	100%	\$69,998	7/1/2020	6/30/2022
Zhongfei Zhang	Machine Learning Algorithm Project	Danone Research	100%	\$19,953	4/1/2020	3/31/2021
				Total # Credited	56.63	
				Total \$ Credited	\$19,079,861	

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
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020 Economics

Andreas Pape	New Frontiers in Understanding Human Concept Learning: Advancing Theory and Pedagogy	National Science Foundation	30%	\$204,093	2/1/2020	1/31/2023
Andreas Pape	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$116,250	4/1/2020	3/31/2023
Christopher Hanes	Cliometrics Conferences for 2021, 2022, and 2023.	National Science Foundation	50%	\$64,826	8/1/2021	7/31/2024
Neha Khanna	COVID-19: Race, Income and Air quality changes During the COVID-19 Pandemic: Evidence from New York State	Social Science Research Council	100%	\$5,000	8/1/2020	7/31/2021
Plamen Nikolov	Do Pension Benefits Reduce Labor Supply in Rural China	TBD	100%	\$44,994	5/1/2020	4/30/2021
Plamen Nikolov	COVID-19: The Role of Inter-Temporal Biases in Influencing Individuals' Demand for Social Distancing	Social Science Research Council	100%	\$5,000	7/15/2020	1/14/2021
Susan Wolcott	Cliometrics Conferences for 2021, 2022, and 2023.	National Science Foundation	50%	\$64,826	8/1/2021	7/31/2024
				Total # Credited	4.55	
				Total \$ Credited	\$504,988	

020 Electrical and Computer Engineering

David Klotzkin	An Economical Device for In-Home Calcium Detection Using Voltammetry or Fluorescent Methods	University of Pennsylvania	50%	\$99,428	1/1/2020	12/31/2020
David Klotzkin	Comprehensive Optimization of High Speed Directly Modulated 25Gb/s Devices	Source Photonics Incorporated	100%	\$15,001	5/15/2020	5/14/2021
Douglas Summerville	Safeguards Against Hidden Effects and Anomalous Trojans in Hardware (SHEATH)	Assured Information Security Incorporated	100%	\$99,988	11/1/2019	10/31/2021
Emrah Akyol	Deep Graphical Modeling Approach to Fault-Tolerant Heterogeneous Sensor Fusion	Sony Corporation	100%	\$150,001	6/1/2020	5/31/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Emrah Akyol	Price of Transparency: Characterization of Algorithmic Transparency vs. Performance Trade-off via Signaling Games	Amazon.com	100%	\$80,000	6/1/2020	5/31/2021
Jessica Fridrich	DISCOVER: A Data-driven Integrated Approach for Semantic InCONSistencies VERification	Purdue University	50%	\$689,689	4/1/2020	3/31/2024
Jessica Fridrich	SaTC: CORE: Medium: Steganography Based on Sensor Capture Models: Replacing Heuristics with Model-Based Designs	National Science Foundation	100%	\$768,964	10/1/2020	9/30/2023
Jian Li	CNS Core: Small: Adaptive Cache Dimensioning in Cloud CDNs: Foundations and Practice	National Science Foundation	100%	\$489,877	10/1/2020	9/30/2023
Jian Li	Collaborative Research: EPCN: Distributed Anomaly Detection in Interdependent Power and Societal Networks	National Science Foundation	100%	\$250,974	1/1/2021	12/31/2023
Jian Li	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	US Department of Energy	25%	\$644,950	1/1/2021	12/31/2023
Jian Li	SenSE: Integrated Multimodal Sensor Platform with Hardware/Software Co-Design for Continuous Glucose Monitoring and Management	National Science Foundation	33%	\$247,212	1/1/2021	12/31/2023
Jian Li	Understanding Temporal Social Group Behavior through Graphlets	Facebook Incorporated	100%	\$49,134	7/1/2020	6/30/2021
Jian Li	CNS Core: Small: MicroFLES: A Microchained Lightweight IoT Network Architecture with Federated Learning as an Edge Service	National Science Foundation	50%	\$249,999	6/1/2020	5/31/2023
Jian Li	COVID: The Impact of Online Platforms on the Resilience of Small and Midsize Business Under COVID-19 Pandemic	Facebook Incorporated	100%	\$74,466	8/1/2020	7/31/2021
Jian Li	COVID: On the Understanding and Prediction of the Spread of COVID-19 Pandemic Using Network Intelligence from Invisible Ties	Internet Society Foundation	50%	\$129,423	7/1/2020	6/30/2021
Miao Hu	CRII: SHF: Design Automation for In-Memory Computing Neural Network Accelerators	National Science Foundation	100%	\$175,000	1/1/2020	12/31/2021

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Miao Hu	ASCENT: Collaborative: 3D Memristor Convolutional Kernels with Diffusive Memristor Based Reservoir for Real-time Machine Learning	National Science Foundation	100%	\$499,997	9/1/2020	8/31/2023
Miroslav Goljan	DISCOVER: A Data-driven Integrated Approach for Semantic InCONSistencies VERification	Purdue University	50%	\$689,689	4/1/2020	3/31/2024
Ning Zhou	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	US Department of Energy	25%	\$644,950	1/1/2021	12/31/2023
Ning Zhou	A Distributed and Low-Cost Behind-The-Meter Resource Control System	US Department of Energy	30%	\$667,557	6/1/2020	5/31/2023
Ning Zhou	Correlation Analysis of Wide-Area Oscillations	Pacific Northwest National Laboratory	100%	\$40,267	8/1/2019	7/31/2020
Ning Zhou	Correlation Analysis of Wide-Area Oscillations in the Eastern Interconnection	Pacific Northwest National Laboratory	100%	\$80,001	6/1/2020	5/31/2021
Pritam Das	I-Corps:Vanadium Redox Flow Batteries for Small Urban Businesses	National Science Foundation	100%	\$50,000	7/7/2020	1/6/2021
Pritam Das	A Family of Long Lifetime, Best-in-Class Efficiency, Selectively Dimmable, Multi-Channel LED Drivers for Universal Lighting Applications	US Department of Energy	100%	\$1,732,193	1/1/2020	12/31/2021
Pritam Das	Smart Battery Engineering Academy	NYS Energy Research and Development Authority	50%	\$372,059	8/1/2020	7/31/2022
Scott Craver	Scholarship Program for Societal Impacts and Diversity Issues in Cybersecurity	National Science Foundation	34%	\$340,000	9/1/2020	8/31/2025
Seokheun Choi	Extending Reach of e-Diagnostics with Biobatteries Activated by Body Fluids	National Institutes of Health	100%	\$1,732,050	9/1/2020	8/31/2025
Seokheun Choi	Stretchable Papertronics	National Science Foundation	50%	\$241,552	9/1/2020	8/31/2023
Seokheun Choi	COVID: Integrated Multiarray Biosensors with Machine Learning for Early Detection and Accurate Screening of Coronavirus	New Jersey Institute of Technology	100%	\$277,767	9/1/2020	8/31/2023

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Seokheun Choi	SenSE: Integrated Multimodal Sensor Platform with Hardware/Software Co-Design for Continuous Glucose Monitoring and Management	National Science Foundation	33%	\$247,212	1/1/2021	12/31/2023
Seokheun Choi	COVID-19 R21: Integrating Liposome-Based Assay Technology into Point-of-Care Diagnostics for Antibody Testing of SARS-CoV-2 Using a Portable Glucometer	National Institutes of Health	10%	\$42,719	4/1/2021	3/31/2023
Tara Dhakal	High Energy Density Nanolaminate Capacitors	National Science Foundation	100%	\$250,000	1/1/2020	12/31/2021
Tara Dhakal	Reduced Environmental Controls in Perovskite Solar Cell Manufacturing Enabled by Vacuum-Deposited Gas Barrier Coatings	GVD Corporation	100%	\$167,623	8/1/2020	7/31/2022
Tara Dhakal	High Energy Density Nanolaminate Capacitors	National Science Foundation	50%	\$125,000	8/1/2020	7/31/2022
Tara Dhakal	Atomic Layer Deposition (ALD) to Achieve Precisely Controlled Growth of Layered 2D Hybrid Organic-Inorganic Halide Perovskite for its Application in Solar Cells	US Department of Energy	70%	\$140,001	1/1/2020	12/31/2020
Vladimir Nikulin	System for Integrating and Networking of Quantum (SINQ)	Technergetics Limited Liability Company	100%	\$47,670	9/1/2020	8/31/2021
Wenfeng Zhao	SenSE: Integrated Multimodal Sensor Platform with Hardware/Software Co-Design for Continuous Glucose Monitoring and Management	National Science Foundation	34%	\$254,703	1/1/2021	12/31/2023
Xiaohua Li	Collaborative Research: CNS Core: Small: Lightweight Broadband Networked Fleet of Drones for Early Wildfires Deterrence	National Science Foundation	50%	\$190,000	6/1/2020	5/31/2023
Yu Chen	FW-HTF-P: Redefining Work and the Social Value System in the Post AI Era: Exploring Lessons from Traditional Economies of Vanuatu	National Science Foundation	50%	\$75,000	1/1/2021	12/31/2021
Yu Chen	EAGER: SaTC: CORE: Small: SAVED: Secure Audio and Video Data from Deepfake Attacks Leveraging Environmental Fingerprints	National Science Foundation	100%	\$257,049	10/1/2020	9/30/2022

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Yu Chen	Collaborative Research: SaTC: CORE: Medium: Protecting Visual Privacy in the Drone Age	National Science Foundation	100%	\$300,000	7/1/2020	6/30/2023
Yu Chen	Collaborative Research: CNS Core: Small: Lightweight Broadband Networked Fleet of Drones for Early Wildfires Deterrence	National Science Foundation	50%	\$190,000	6/1/2020	5/31/2023
Yu Chen	CNS Core: Small: MicroFLES: A Microchained Lightweight IoT Network Architecture with Federated Learning as an Edge Service	National Science Foundation	50%	\$249,999	6/1/2020	5/31/2023
Yu Chen	SCC-IRG Track2: Building Social Trust and Efficacy through Intelligent/Smart Public Safety (STEPS)	University of Missouri-Kansas City	100%	\$349,931	9/1/2020	8/31/2023
Yu Chen	SaTC: CORE: Small: SIViT: Secure Internet of Video Things (IoVT) against Visual Layer Attacks at the Edge Leveraging Environmental Fingerprints	National Science Foundation	100%	\$499,999	1/1/2020	12/31/2022
Ziang Zhang	CAREER: A Sensing and Control Framework for Managing the Transient Stability of Future Energy System with High Levels of Power Electronic-based Energy Resources	National Science Foundation	100%	\$499,996	6/1/2020	5/31/2025
Ziang Zhang	High Energy Density Nanolaminate Capacitors	National Science Foundation	20%	\$50,000	8/1/2020	7/31/2022
Ziang Zhang	Stability Impact Analysis of New York Power Grid with Ultra-high Penetration of Inverter-interfaced Energy Resources	New York State Energy Research and Development Authority	60%	\$240,000	1/1/2021	12/31/2022
Ziang Zhang	JamestownBPU-BU Smart Cities Innovation Partnership (Sub-in)	Jamestown Board of Public Utilities	33%	\$11,385	1/1/2021	12/31/2021
Ziang Zhang	Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants	US Department of Energy	25%	\$644,950	1/1/2021	12/31/2023
Ziang Zhang	A Distributed and Low-Cost Behind-The-Meter Resource Control System	US Department of Energy	55%	\$1,223,854	6/1/2020	5/31/2023
				Total # Credited	35.87	
				Total \$ Credited	\$17,639,277	

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Chengbin Deng	JamestownBPU-BU Smart Cities Innovation Partnership (Sub-in)	Jamestown Board of Public Utilities	33%	\$11,385	1/1/2021	12/31/2021
Chengbin Deng	Urban Thermal Dynamics, Urban Landscape Transitions and Social Processes	National Science Foundation	100%	\$323,220	9/1/2020	8/31/2023
Chengbin Deng	Collaborative Research: III: Medium: Sentiment Analysis in Label Scarce Settings: Leverage Lexicon Integration for Novel Machine Learning Methods	National Science Foundation	2%	\$15,440	10/1/2020	9/30/2024
Chengbin Deng	Toward a framework for near real time monitoring spatiotemporal surface algae bloom	Great Lakes Research Consortium	50%	\$12,488	4/1/2020	3/31/2022
Chengbin Deng	Multi-resolution Monitoring of Land Cover and Land Use Changes That Could Trigger Pandemics	University of Connecticut	100%	\$53,267	1/1/2021	12/31/2023
Wan Yu	Location Choices, Temporary Highly Skilled Migrants, and Rust Belt Revitalization	QSR International	100%	\$25,000	4/1/2020	3/31/2022
			Total # Credited	3.85		
			Total \$ Credited	\$440,799		

020 Geological Sci & Environmental Studies

Alex Nikulin	Understanding Chilean-Pampean Flat Slab Subduction; Relating a Geophysical Anomaly to Geochemical Evolution	National Science Foundation	50%	\$58,960	12/1/2019	11/30/2021
Alex Nikulin	IGE: Translational Research in Ecology and Environmental Science (TREES)	National Science Foundation	20%	\$96,593	8/1/2020	7/31/2023
Alex Nikulin	I-Corps: Delivering an Integrated Wide-area UAV Aeromagnetic Survey System Targeting Location and Identification of Orphaned Oil and Gas Wells.	National Science Foundation	50%	\$25,000	1/1/2021	12/31/2021
Howard R Naslund	Understanding Chilean-Pampean Flat Slab Subduction; Relating a Geophysical Anomaly to Geochemical Evolution	National Science Foundation	50%	\$58,960	12/1/2019	11/30/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Jeffrey T Pietras	Linking the Distribution, Surface Morphology, and Formation of Lacustrine Bioherm Reservoir Facies to Environmental Conditions: Fayetteville Green Lake, NY	American Chemical Society	50%	\$55,000	5/1/2021	8/31/2023
Jonathan Schmitkons	Linking the Distribution, Surface Morphology, and Formation of Lacustrine Bioherm Reservoir Facies to Environmental Conditions: Fayetteville Green Lake, NY	American Chemical Society	50%	\$55,000	5/1/2021	8/31/2023
Joseph Graney	Collaborative Research: Network Cluster: Exploring How Climate and Geology Pre-Condition the Response of Watersheds to Agriculture	National Science Foundation	100%	\$228,843	6/1/2020	5/31/2025
Joseph Graney	Eco-Educators: A Binghamton University-Community Partnership for a Healthier Chesapeake Bay Watershed	Environmental Protection Agency	10%	\$10,000	1/1/2021	12/31/2021
Molly Patterson	Collaborative Research: Sensitivity of the West Antarctic Ice Sheet to 2? Celsius (SWAIS 2C)	National Science Foundation	100%	\$751,679	1/1/2021	12/31/2024
Molly Patterson	Collaborative Research: Orbital- to millennial-scale variability of the West Antarctic Ice Sheet and the formation of bottom water in the Ross Sea during the Pliocene-Pleistocene	National Science Foundation	100%	\$107,487	7/1/2020	6/30/2023
Molly Patterson	Collaborative Research: The role of the Northwest Pacific Ocean in regional and interhemispheric Plio-Pleistocene climate teleconnections	National Science Foundation	100%	\$169,199	9/1/2020	8/31/2023
Sara Velardi	Eco-Educators: A Binghamton University-Community Partnership for a Healthier Chesapeake Bay Watershed	Environmental Protection Agency	60%	\$60,000	1/1/2021	12/31/2021
Timothy de Smet	Layers of Risk: Using System Dynamics Modeling to Integrate Geospatial, Ecological, and Human Behavioral Factors Affecting Tick-borne Disease Transmission in Built Environments	National Science Foundation	25%	\$612,501	6/1/2020	5/31/2024

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Timothy de Smet	Open-access remote sensing: Towards an online repository of Archaeological Geophysics Data	National Park Service	100%	\$19,941	8/15/2020	8/14/2021
Timothy de Smet	I-Corps: Delivering an Integrated Wide-area UAV Aeromagnetic Survey System Targeting Location and Identification of Orphaned Oil and Gas Wells.	National Science Foundation	50%	\$25,000	1/1/2021	12/31/2021
Timothy de Smet	IGE: Translational Research in Ecology and Environmental Science (TREES)	National Science Foundation	20%	\$96,593	8/1/2020	7/31/2023
Timothy Lowenstein	SUPPLEMENT: Collaborative Research: Regional hydrologic and vegetation changes over the last 150 kyr in the Searles and Death Valley basins	National Science Foundation	100%	\$77,964	2/1/2020	7/31/2021
			Total # Credited	10.35		
			Total \$ Credited	\$2,508,720		

020 Health and Wellness Studies

Lina Begdache	Epifluidics for Stress Monitoring	Nano-Bio Manufacturing Consortium	25%	\$48,488	10/1/2019	9/30/2021
Lina Begdache	Individualized Dietary and Lifestyle (IDIEL) Program to Optimize Mental Wellbeing	New York Stem Cell Foundation	100%	\$1,500,000	6/1/2020	5/31/2025
			Total # Credited	1.25		
			Total \$ Credited	\$1,548,488		

020 Health Outcomes and Administrative Sciences

Utkarsh Dang	Definition of serum biomarkers in DMD that predict vamorolone response	Muscular Dystrophy Association of America	50%	\$150,000	7/1/2020	6/30/2023
Utkarsh Dang	COVID: Role of PA4878 in biofilm antimicrobial resistance: Model to Return Binghamton Campus to Post-COVID 19 Normalcy	National Institute of Allergy & Infectious Disease	20%	\$157,000	5/1/2020	4/30/2021
Utkarsh Dang	COVID-19: Development and Implementation of a Return-to-campus Public Health Model	Pfizer Foundation	20%	\$60,000	6/1/2020	5/31/2021

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Utkarsh Dang	Serum protein biomarkers assess safety and efficacy of prednisone versus deflazacort in Duchenne patients	University of Rochester	50%	\$23,047	7/1/2020	6/30/2021
Utkarsh Dang	Pilot Trial of Vamorolone for the Treatment of Becker Muscular Dystrophy	University of Pittsburgh	50%	\$33,097	7/1/2020	6/30/2023
Utkarsh Dang	Shared Resource for Proteomics and Biomarker Studies of Lyme Disease	Steven and Alexandra Cohen Foundation Incorporated	33%	\$330,000	1/1/2020	12/31/2023
Utkarsh Dang	R61/R33 Biomarker Signatures for Duchenne Muscular Dystrophy.	National Institutes of Health	30%	\$903,102	9/1/2020	8/31/2025
Utkarsh Dang	Defining prognostic models of future clinical trajectories in Duchenne Muscular Dystrophy	Foundation to Eradicate Duchenne	100%	\$41,063	1/1/2020	12/31/2020
				Total # Credited	3.53	
				Total \$ Credited	\$1,697,309	

020 History

Elisa Camiscioli	Trafficking, Travel, and Illicit Migration in the Early Twentieth-Century French Atlantic World (AFTER AWARD PACS PROPOSAL)	National Endowment for the Humanities	100%	\$59,999	6/1/2020	5/31/2021
Leigh Wheeler	Biography of Anne Moody	National Endowment for the Humanities	100%	\$60,000	9/1/2019	8/31/2020
				Total # Credited	2.00	
				Total \$ Credited	\$119,999	

020 Mathematical Sciences

Cary Malkiewich	Algebraic K-theory in Fixed-Point Theory and Smooth Manifolds	National Science Foundation	100%	\$317,815	7/1/2020	6/30/2023
Cary Malkiewich	AMS Centennial Fellowship	American Mathematical Society	100%	\$96,853	9/1/2020	8/31/2021
Cary Malkiewich	Algebraic K-theory in Fixed Point Theory and Smooth Manifolds	Simons Foundation	100%	\$42,000	9/1/2020	8/31/2025
Eugenia Sapir	Comparative Teichmuller Theory	Simons Foundation	100%	\$42,000	9/1/2020	8/31/2025

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Gang Zhou	Problems in Non-Equilibrium Statistical Mechanics and Generic Singularities Formed by Mean Curvature Flow	National Science Foundation	100%	\$146,577	7/1/2020	6/30/2023
Gang Zhou	Mathematical Problems in Non-Equilibrium Statistical Mechanics and Singularities Formed by Geometric Flows	Simons Foundation	100%	\$42,000	9/1/2020	8/31/2025
Guifang Fu	R01-Quasi Ordinary Differential Equation	Pennsylvania State University	100%	\$252,190	4/1/2020	3/31/2025
Sanjeena Dang	Efficient clustering and classification of matrix-variate RNA-seq data	National Science Foundation	100%	\$182,637	6/1/2020	5/31/2023
Sanjeena Dang	Clustering longitudinal microbiome profiles	Johnson and Johnson	100%	\$150,000	6/1/2019	5/31/2022
Sanjeena Dang	A Variational Approach for Clustering High Dimensional Discrete Data	Simons Foundation	100%	\$42,000	9/1/2020	8/31/2025
Sanjeena Dang	RECODE: Decoding Rules Governing the Progression of Pancreatogenesis from iPSCs to Islet Organoids	National Science Foundation	25%	\$332,416	11/1/2020	10/31/2024
Sanjeena Dang	Decoding Rules of Organogenesis from iPSCs	National Institutes of Health	20%	\$483,834	4/1/2021	3/31/2026
Sanjeena Dang	Monitoring stem cell differentiation with advanced electronic sensing systems	NYS Department of Health	10%	\$106,560	6/1/2021	5/31/2024
Thomas Zaslavsky	Signed, Gain, and Biased Graphs: Structure and Geometry	Simons Foundation	100%	\$131,149	1/1/2020	12/31/2020
Vladislav Kargin	Random geometric structures and their evolution	National Science Foundation	100%	\$350,166	8/1/2020	7/31/2023
Xingye Qiao	Collaborative Research: Statistical Transfer Learning: Uncertainty, Conformity and Scalability	National Science Foundation	100%	\$169,788	6/1/2020	5/31/2023
Xingye Qiao	COVID: On the Understanding and Prediction of the Spread of COVID-19 Pandemic Using Network Intelligence from Invisible Ties	Internet Society Foundation	50%	\$129,423	7/1/2020	6/30/2021
Xingye Qiao	Decided not to move forward with - SEI: Data Science for All: The Next Generation	New York Hall of Science	50%	\$157,901	8/1/2020	7/31/2024

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Xingye Qiao	Collaborative Research: CRCNS Research Proposal: Global integration of brain functional networks	National Science Foundation	13%	\$80,600	9/1/2020	8/31/2023
			Total # Credited	14.68		
			Total \$ Credited	\$3,255,909		

020 Mechanical Engineering

Bahgat Sammakia	CHIRP: Optimized Thermal Design for Stacked Dies	SUNY Polytechnic Institute	100%	\$68,997	1/1/2020	12/31/2022
Bahgat Sammakia	NVIDIA Corporation 2020 I/UCRC (ES2) Membership Agreement	NVIDIA Corporation	50%	\$4,500	1/1/2020	12/31/2020
Bahgat Sammakia	Cornerstone Workforce Development (Sub-in Purdue)	Purdue University	50%	\$35,001	12/20/2019	12/19/2020
Bahgat Sammakia	State-of-the-Art Heterogeneous Integrated Packaging (SHIP) (Sub-in GE)	General Electric Global Research	33%	\$198,000	5/1/2020	10/31/2023
Bahgat Sammakia	Design, Develop, and Demonstrate a True 3D Packaging	Applied Materials	33%	\$200,040	1/1/2021	12/31/2023
Changhong Ke	Collaborative Research: Towards Tunable Nanomechanical Systems: Engineering Interfaces in Twisted 2D Atomic Crystal Sheets	National Science Foundation	100%	\$369,250	8/15/2020	8/14/2023
Changhong Ke	Additive Laser Fabrication of Heat Removal Devices	National Science Foundation	25%	\$62,500	1/1/2020	12/31/2021
Changhong Ke	NASA NY Space Grant-SUNY Binghamton Student Support Proposal	Cornell University	100%	\$40,000	5/31/2020	5/30/2024
Changhong Ke	Multiple-Energy-Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning	National Science Foundation	50%	\$272,471	7/1/2020	6/30/2023
Changhong Ke	Collaborative Research: Exploiting Nanoscale Interfacial Properties to Achieve Novel Bulk Mechanical Properties in Additively Manufactured Boron Nitride Nanotube-Reinforced Metal Composites	National Science Foundation	100%	\$359,243	7/1/2020	6/30/2023

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Congrui Jin	Fungi-Mediated Self-Healing Concrete for Sustainable and Resilient Infrastructure	National Science Foundation	50%	\$110,000	7/1/2020	6/30/2023
Guangwen Zhou	Fungi-Mediated Self-Healing Concrete for Sustainable and Resilient Infrastructure	National Science Foundation	50%	\$110,000	7/1/2020	6/30/2023
Junghyun Cho	CHIRP: Transient Liquid Phase Bond for a Low-Temperature Solder Alternative	Semiconductor Research Corporation	100%	\$150,000	1/1/2020	12/31/2022
Junghyun Cho	Electronic Assembly Solder Alloy Development	Universal Instruments Corporation	100%	\$37,038	10/21/2019	10/20/2020
Junghyun Cho	PDRD - Conformal Coating Tin Whiskers (Year 2)	Honeywell Federal Manufacturing & Technologies LLC	100%	\$104,999	9/1/2019	8/31/2020
Junghyun Cho	Transformation of Farm Waste to High Performance Biofuel and Fertilizer	USDA Agricultural Research Service	33%	\$165,000	6/1/2020	5/31/2022
Mirjalil Razaviaghjeh	R21: Brain Reverse Engineering: The Early-Stage Diagnosis of the Structural Discrepancies of Autism Spectrum Disorder (ASD)	National Institute of Mental Health	50%	\$197,920	9/1/2020	8/31/2022
Mirjalil Razaviaghjeh	Role of Fiber Tracts in the Folding Patterns of the Human Fetal Brain	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	50%	\$212,125	4/1/2021	3/31/2023
Paul Chiarot	CHIRP: Conformal Polymeric Thin Films Manufactured Using Electrospray Printing	Semiconductor Research Corporation	100%	\$150,000	1/1/2020	12/31/2022
Paul Chiarot	Bacterial Outer Membrane Vesicles: Formation, Delivery and Community Interactions	National Institute of General Medical Sciences	33%	\$2,381,657	4/2/2021	4/1/2026
Paul Chiarot	FMSG: Extracellular Vesicle Manufacturing and Farming	University at Buffalo	50%	\$166,666	6/1/2021	5/31/2023
Pong-Yu Huang	U-RISE at SUNY Binghamton University	National Institute of General Medical Sciences	34%	\$1,382,226	8/15/2021	8/14/2026
Pu Zhang	Micro-CT Characterization of Additive Manufactured Stainless Steel Parts	Technical Data Analysis Incorporated	100%	\$15,201	4/1/2020	3/31/2021
Pu Zhang	Shape Memory Behaviors of Elastomers with Liquid Metal Inclusions	American Chemical Society	100%	\$110,000	9/1/2020	8/31/2022

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Ronald Miles	Soundskrit Support for Finite Element Modeling for Microphone Designs (Mahdi Farahikia)	Soundskrit	100%	\$274,999	3/1/2020	8/31/2022
Ronald Miles	Exploiting Nonlinearities to Discover High-Resolution MEMS Electrostatic Filters	National Science Foundation	50%	\$271,545	9/1/2020	8/31/2023
Ronald Miles	R21: Dynamically Tunable Atomic Force Microscope for High Resolution Imaging of Biological Samples	National Institute of General Medical Sciences	50%	\$204,839	9/1/2020	8/31/2022
Scott Schiffres	Design, Develop, and Demonstrate a True 3D Packaging	Applied Materials	33%	\$199,980	1/1/2021	12/31/2023
Scott Schiffres	Intuitive Foundation - Mask filtration and pressure drop testing	Intuitive Foundation	100%	\$11,800	6/4/2020	1/3/2021
Scott Schiffres	COVID: Screening of Spunbond-Meltdown-Spunbond Polymers for Filtration	Cardinal Health	100%	\$30,000	5/1/2020	6/30/2020
Scott Schiffres	Cornerstone Workforce Development (Sub-in Purdue)	Purdue University	50%	\$35,001	12/20/2019	12/19/2020
Scott Schiffres	Development of Additive Manufacturing Using Laser Processing with Enhanced Copper and Stainless Steel Metal Powders (ChromaNanoTech SBIR)	ChromaNano Tech LLC	100%	\$67,000	6/1/2020	5/31/2021
Scott Schiffres	Additive Laser Fabrication of Heat Removal Devices	National Science Foundation	50%	\$125,000	1/1/2020	12/31/2021
Seungbae Park	Evaluation of TGV Thermo-Mechanical Behavior using Micro DIC Techniques	Corning Incorporated	100%	\$50,000	11/1/2019	6/30/2020
Seungbae Park	Sunray Scientific's Participating Membership in the IEEC, 2019-20	SunRay Scientific LLC	100%	\$5,000	11/1/2019	10/31/2020
Seungbae Park	State-of-the-Art Heterogeneous Integrated Packaging (SHIP) (Sub-in GE)	General Electric Global Research	34%	\$204,000	5/1/2020	10/31/2023
Seungbae Park	L3Harris IEEC Participating Membership 2020-2021	L3Harris Technologies Incorporated	100%	\$5,000	3/4/2020	3/3/2021
Seungbae Park	Indium Corporation's Full Membership in the IEEC 2020-21	Indium Corporation	100%	\$40,000	2/26/2020	2/25/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Seungbae Park	Unison's Participating Membership in the IEEC 2020-2021	Unison Industries LLC	100%	\$5,000	4/1/2020	3/31/2021
Seungbae Park	Knowles Electronics IEEC Participating Membership 2020-2021	Knowles Electronics LLC	100%	\$5,000	3/1/2020	2/28/2021
Seungbae Park	Analog Devices membership in the IEEC, 2020-2021	Analog Devices, Incorporated	100%	\$60,000	2/8/2020	2/7/2021
Seungbae Park	Design, Develop, and Demonstrate a True 3D Packaging	Applied Materials	33%	\$199,980	1/1/2021	12/31/2023
Seungbae Park	Sanmina's participating membership in the IEEC, 2020-2021	Sanmina Corporation	100%	\$5,000	2/14/2020	2/13/2021
Seungbae Park	Menlo Microsystems' Participating Membership in the IEEC	Menlo Microsystems Incorporated	100%	\$5,000	11/15/2019	11/14/2020
Seungbae Park	Indium's Full Membership in the IEEC, 2019-20	Indium Corporation	100%	\$40,000	11/1/2019	10/31/2020
Seungbae Park	D. E. Shaw Full Membership in the IEEC, 2019-20	D. E. Shaw Research, LLC	100%	\$40,000	11/1/2019	10/31/2020
Seungbae Park	Dupont's Participating Membership in the IEEC, 2019-2020	Dupont Speciality Products USA LLC	100%	\$5,000	10/1/2019	9/30/2020
Seungbae Park	Prismark Partners' Membership in the IEEC 2019-2020	Prismark Partners LLC	100%	\$25,000	9/1/2019	8/31/2020
Seungbae Park	Corning Inc.'s Full Membership in the IEEC, 2019-2020	Corning Incorporated	100%	\$60,000	10/1/2019	9/30/2020
Seungbae Park	ASE's Membership in the IEEC, 2019-2020	Advanced Semiconductor Engineering Incorporated	100%	\$60,000	9/1/2019	8/31/2020
Seungbae Park	D.E. Shaw Research Participating Membership in the IEEC, 2019-2020	D. E. Shaw Research, LLC	100%	\$5,000	8/1/2019	7/31/2020
Seungbae Park	Pelitex Inc.'s Participating membership in the IEEC, 2019-20	Pelitex Incorporated	100%	\$5,000	11/15/2019	11/14/2020
Shahrzad Towfighian	Exploiting Nonlinearities to Discover High-Resolution MEMS Electrostatic Filters	National Science Foundation	50%	\$271,545	9/1/2020	8/31/2023
Shahrzad Towfighian	R21: Dynamically Tunable Atomic Force Microscope for High Resolution Imaging of Biological Samples	National Institute of General Medical Sciences	50%	\$204,839	9/1/2020	8/31/2022

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Shahrzad Towfighian	Self-Powered Load Sensors for Total Knee Replacement Health Monitoring	National Inst of Arthritis Musculoskeletal & Skin	100%	\$2,267,297	7/1/2020	6/30/2025
Shahrzad Towfighian	REU Supplement: MEMS High Voltage Triboelectric Levitation: A Generactuator	National Science Foundation	100%	\$16,000	5/25/2020	5/24/2021
Xin Yong	CAREER: Harnessing Mechanical Flexibility of Cells to Inhibit Bacterial Swarming	National Science Foundation	100%	\$500,000	3/1/2020	2/28/2025
Xin Yong	R15: Small-molecule Membrane Interactions as a Driver of Bacterial Outer Membrane Vesicle Biogenesis Across Species	National Institute of General Medical Sciences	50%	\$224,100	7/1/2020	6/30/2023
Xin Yong	Bacterial Outer Membrane Vesicles: Formation, Delivery and Community Interactions	National Institute of General Medical Sciences	33%	\$2,381,657	4/2/2021	4/1/2026
Xin Yong	R21: Mechanics and Protein-Free Curvature Remodeling of Bacterial Outer Membrane	National Institute of Allergy & Infectious Disease	100%	\$418,070	9/1/2020	8/31/2022
Xin Yong	FMSG: Extracellular Vesicle Manufacturing and Farming	University at Buffalo	50%	\$166,666	6/1/2021	5/31/2023
Xin Yong	Collaborative Research: Understanding "wild-type" Nanoplastic Uptake in Single Microalgae Cells with Fluorescence Tracking and Computational Modeling	National Science Foundation	100%	\$266,014	1/1/2021	12/31/2023
			Total # Credited	47.25		
			Total \$ Credited	\$15,663,163		

020 Pharmaceutical Sciences

Aaron Beedle	Improve regeneration in muscular dystrophy by targeting HIF2A in satellite cells	University of Georgia	100%	\$53,986	8/1/2020	7/31/2023
Anthony DiPasqua	Use of radiotherapeutic bandages for the treatment of infantile hemangiomas SBIR	National Institutes of Health	100%	\$235,583	9/1/2020	8/31/2021
Bennett Doughty	The Rural and Underserved Service Track Development	American Association of Colleges of Pharmacy	100%	\$10,000	3/1/2020	2/28/2021
Eric Hoffman	Definition of serum biomarkers in DMD that predict vamorolone response	Muscular Dystrophy Association of America	50%	\$150,000	7/1/2020	6/30/2023

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Eric Hoffman	COVID-19: Development and Implementation of a Return-to-campus Public Health Model	Pfizer Foundation	20%	\$60,000	6/1/2020	5/31/2021
Eric Hoffman	COVID: Role of PA4878 in biofilm antimicrobial resistance: Model to Return Binghamton Campus to Post-COVID 19 Normalcy	National Institute of Allergy & Infectious Disease	20%	\$157,000	5/1/2020	4/30/2021
Kanneboyina Nagaraju	Effect of Type 1 Interferon on Muscle Function and Weakness in Myositis	CURE JM Foundation	100%	\$235,500	6/17/2019	6/16/2021
Kanneboyina Nagaraju	Effect of blocking the Endoplasmic Reticulum (ER stress) and Inflammation (NF-kB) on muscle function in a mouse model of myositis.	University of Pennsylvania	100%	\$102,430	2/1/2020	1/31/2021
Kanneboyina Nagaraju	Immune response to dystrophin after Etiperson treatment in Duchenne muscular dystrophy Children	Foundation to Eradicate Duchenne	100%	\$99,999	2/3/2020	2/2/2021
Kanneboyina Nagaraju	Synergistic Combination Therapy for Duchenne Muscular Dystrophy-Resubmission	Muscular Dystrophy Association of America	50%	\$150,000	8/1/2020	7/31/2023
Kanneboyina Nagaraju	COVID-19 - Lung-Targeted Suppression of Innate Immunity: A New Strategy for Addressing COVID-19 Related ARDS	National Institutes of Health	20%	\$62,800	6/16/2020	6/15/2022
Katie Edwards	COVID-19 R03: Pyruvate Dehydrogenase Kinase Inhibitors to Counteract Effects of Hypoxia Encountered During Viral Respiratory Infections	National Institute of Allergy & Infectious Disease	100%	\$157,000	4/1/2021	3/31/2023
Katie Edwards	COVID-19 R21: Integrating Liposome-Based Assay Technology into Point-of-Care Diagnostics for Antibody Testing of SARS-CoV-2 Using a Portable Glucometer	National Institutes of Health	90%	\$384,471	4/1/2021	3/31/2023
Katie Edwards	R03 Pyruvate Dehydrogenase Kinase Inhibitors as a Strategy to Enhance Exon-Skipping Mediated Dystrophin Expression in Duchenne Muscular Dystrophy	National Institutes of Health	100%	\$157,000	9/1/2020	8/31/2022
Katie Edwards	Synergistic Combination Therapy for Duchenne Muscular Dystrophy-Resubmission	Muscular Dystrophy Association of America	50%	\$150,000	8/1/2020	7/31/2023
L. Nathan Tumey	Targeting glucocorticoids to leukocytes for the treatment of SLE	Department of Defense (CDMRP)	100%	\$200,000	7/1/2020	6/30/2022

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L. Nathan Tumey	R01: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	50%	\$771,320	7/1/2020	6/30/2024
L. Nathan Tumey	R01 Exploiting the Hydrophobic Glycosyl Pocket of igg1 for Imaging and Drug Delivery Applications	National Institute of General Medical Sciences	50%	\$964,150	11/1/2020	10/31/2025
L. Nathan Tumey	R03 "Molecular whack-a-mole": Targeting transmembrane-TNF?or the delivery of anti-inflammatory drugs	National Institutes of Health	100%	\$157,000	10/1/2020	9/30/2022
L. Nathan Tumey	R01 Synthesis, screening, and validation of indoloquinolones targeting the kRAS promoter G-quadruplex structures	National Cancer Institute	40%	\$628,000	9/1/2020	8/31/2024
L. Nathan Tumey	COVID-19 - Lung-Targeted Suppression of Innate Immunity: A New Strategy for Addressing COVID-19 Related ARDS	National Institutes of Health	80%	\$251,200	6/16/2020	6/15/2022
L. Nathan Tumey	R21: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	60%	\$250,842	4/1/2021	3/31/2023
L. Nathan Tumey	COVID-19 R21: Targeted modulation of endosomal processing as a strategy to mitigate SARS-CoV-2 viral fusion	National Institutes of Health	100%	\$446,595	8/1/2020	7/31/2022
L. Nathan Tumey	R21: Selective delivery of DHODH inhibitors to leukocytes for the improved treatment of lupus	National Institutes of Health	100%	\$418,070	7/1/2020	6/30/2022
Melissa Morales	Effect of Type 1 Interferon on muscle function and weakness in myositis	Gilead Sciences Incorporated	100%	\$130,000	1/2/2020	1/1/2022
Melissa Morales	K01: Investigating the Role of Type I Interferons on Muscle Weakness in Autoimmune Myositis	National Institutes of Health	100%	\$1,052,971	4/1/2021	3/31/2026
Tracy Brooks	R01: Modular construction of a multi-targeted drug delivery system	National Institute of General Medical Sciences	25%	\$385,660	7/1/2020	6/30/2024
Tracy Brooks	R01 Exploiting the Hydrophobic Glycosyl Pocket of igg1 for Imaging and Drug Delivery Applications	National Institute of General Medical Sciences	25%	\$482,075	11/1/2020	10/31/2025
Tracy Brooks	R01 Synthesis, screening, and validation of indoloquinolones targeting the kRAS promoter G-quadruplex structures	National Cancer Institute	60%	\$942,000	9/1/2020	8/31/2024

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Yetrib Hathout	Shared Resource for Proteomics and Biomarker Studies of Lyme Disease	Steven and Alexandra Cohen Foundation Incorporated	34%	\$340,000	1/1/2020	12/31/2023
Yetrib Hathout	Pilot Trial of Vamorolone for the Treatment of Becker Muscular Dystrophy	University of Pittsburgh	50%	\$33,097	7/1/2020	6/30/2023
Yetrib Hathout	U54: Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases (AMD 3)	Childrens Research Institute	100%	\$273,016	7/1/2019	6/30/2020
Yetrib Hathout	Serum protein biomarkers assess safety and efficacy of prednisone versus deflazacort in Duchenne patients	University of Rochester	50%	\$23,047	7/1/2020	6/30/2021
Yetrib Hathout	R61/R33 Biomarker Signatures for Duchenne Muscular Dystrophy.	National Institutes of Health	70%	\$2,107,237	9/1/2020	8/31/2025
Yetrib Hathout	Mobile phlebotomy collections of DMD children in the VBP15-004 clinical trial in 11 countries	ReveraGen Biopharma Incorporated	100%	\$53,250	4/30/2020	4/29/2021
				Total # Credited	24.94	
				Total \$ Credited	\$12,075,299	

020 Pharmacy Practice

Amanda Mogul	Identifying Patients Inappropriately Prescribed Aspirin for Primary Prevention in a Primary Care Clinic	New York State Council Health System Pharmaci	100%	\$1,920	4/13/2020	12/31/2021
Wesley Kufel	Shared Resource for Proteomics and Biomarker Studies of Lyme Disease	Steven and Alexandra Cohen Foundation Incorporated	33%	\$330,000	1/1/2020	12/31/2023
Wesley Kufel	In vivo pharmacokinetic and pharmacodynamic analysis of meropenem during extracorporeal membrane oxygenation	Society of Infectious Disease Pharmacists	100%	\$20,000	11/1/2019	10/31/2020
				Total # Credited	2.33	
				Total \$ Credited	\$351,920	

020 Philosophy

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Nicole Hassoun	The Badness of Death and Value of Life	National Endowment for the Humanities	100%	\$249,999	10/1/2020	9/30/2023
			Total # Credited	1.00		
			Total \$ Credited	\$249,999		

020 Physics

Bonggu Shim	Control of directed laser energy in ultra-short pulse laser filamentation	US Navy Office of Naval Research	100%	\$756,332	11/1/2019	10/31/2024
Bonggu Shim	Study of Wavelength Dependence of Plasma Collision Dynamics and Ionization Mechanism in Laser Solid Matter Interactions	National Science Foundation	100%	\$350,821	9/1/2020	8/31/2023
Elena Margine	Towards fully ab initio predictions of superconducting properties	National Science Foundation	100%	\$400,000	9/1/2020	8/31/2023
Eric Cotts	Electromigration characterization of Low Temperature Solder alloys	Universal Instruments Corporation	100%	\$34,500	7/1/2020	12/31/2020
Eric Cotts	The Effect of Current Stressing on the Reliability of SAC/SnBi Mixed Assemblies During Thermal Cycling	Universal Instruments Corporation	100%	\$22,500	9/1/2019	8/31/2020
Jeffrey Mativetsky	REU Site: Renewable Energy Generation and Storage	National Science Foundation	100%	\$330,309	4/1/2020	3/31/2023
Louis Piper	AI Institute: AI Institute for Foundational Understanding Towards Underpinning Revolutionary Enablement of Artificial Intelligence through Materials (FUTURE-AIM)	Texas A&M AgriLife Research	50%	\$562,500	9/1/2020	8/31/2025
Louis Piper	NSF Engineering Research Center for Center for Renewable Energy Storage Systems and Technology (CRESST)	Cornell University	100%	\$663,644	9/1/2020	8/31/2025
Louis Piper	DMREF: Collaborative Research: A Blueprint for Photocatalytic Water Splitting: Mapping Multidimensional Compositional Space to Simultaneously Optimize Thermodynamics and Kinetics (12-month Creativity Extension)	National Science Foundation	100%	\$72,875	10/1/2020	9/30/2021

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Louis Piper	Rational Design of Oxide Cathode Coatings for High Performance Li-ion Batteries	National Science Foundation	33%	\$199,719	9/1/2020	8/31/2023
Louis Piper	EFRC: Materials Inspired by Nonlinear Neuron Dynamics (MIND)	Texas A M University	33%	\$554,400	9/1/2020	8/31/2024
Manuel Smeu	Rational Design of Oxide Cathode Coatings for High Performance Li-ion Batteries	National Science Foundation	33%	\$199,719	9/1/2020	8/31/2023
Manuel Smeu	CAREER: Ab Initio Modeling of Electrode-Electrolyte Interfaces in Multivalent Ion Batteries	National Science Foundation	100%	\$449,898	1/1/2020	12/31/2024
Manuel Smeu	CHIRP: Mechanical properties of BiSnXYZ Multicomponent Alloys	Semiconductor Research Corporation	100%	\$150,000	1/1/2020	12/31/2022
Manuel Smeu	Non-Equilibrium Greens Function Calculation of Grain Boundary Conductivity (Sub-in Sandia Nat'l Labs)	Sandia National Laboratories	100%	\$39,999	12/1/2019	11/30/2020
Wei-Cheng Lee	EAGER: Collaborative Research: III: Exploring Physics Guided Machine Learning for Accelerating Sensing and Physical Sciences	National Science Foundation	100%	\$53,888	4/15/2020	4/14/2021
Wei-Cheng Lee	EFRC: Materials Inspired by Nonlinear Neuron Dynamics (MIND)	Texas A M University	34%	\$571,200	9/1/2020	8/31/2024
Wei-Cheng Lee	AI Institute: AI Institute for Foundational Understanding Towards Underpinning Revolutionary Enablement of Artificial Intelligence through Materials (FUTURE-AIM)	Texas A&M AgriLife Research	50%	\$562,500	9/1/2020	8/31/2025
Wei-Cheng Lee	Collaborative Research: III: Medium: Transformative Advances in Physics Guided Machine Learning for Accelerating Sensing and Physical Sciences	National Science Foundation	100%	\$250,000	3/1/2020	2/28/2023
			Total # Credited	15.33		
			Total \$ Credited	\$6,224,804		

020 Psychology

Anushree Karkhanis	Dynorphin and Enkephalin Contribution in Shaping Reward Seeking	Whitehall Foundation Incorporated	100%	\$225,000	6/1/2020	5/31/2023
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<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Anushree Karkhanis	Impact of Adolescent Social Isolation on Striatal Direct and Indirect Pathways	Brain and Behavior Research Foundation	100%	\$70,000	1/15/2021	1/14/2023
Anushree Karkhanis	Effects of Naltrexone on ethanol drinking	Alkermes Incorporated	100%	\$100,000	1/1/2020	12/31/2021
Brandon Gibb	Dissertation Research Award-Kiera James: Physiological and Neural Responses to Interpersonal Stimuli in Adolescents Who Engage in Non-Suicidal Self-Injury	American Psychological Association	100%	\$5,000	1/1/2020	12/31/2020
Brandon Gibb	Attentional Biases for Affective Cues as a Mechanism of Risk in Children of Depressed Mothers	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	100%	\$3,487,759	7/1/2020	6/30/2025
Brandon Gibb	Attentional Biases for Affective Cues as a Mechanism of Risk in Children of Depressed Mothers	Eunice Kennedy Shriver National Institute of Child Health & Human Dev	100%	\$3,498,812	9/1/2020	8/31/2025
Christopher Bishop	Chemogenetic and Pharmacological Targeting of the Raphe-Cortical Pathway to Reduce the Development and Expression of L-DOPA-induced Psychosis	Michael J Fox Foundation	100%	\$199,043	9/1/2020	8/31/2021
Christopher Bishop	Re-Purposing the Multi-Target 5-HT Anti-Depressant Vilazodone to Optimize L-DOPA Therapy	Dignity Health dba St. Joseph's Hospital	100%	\$57,595	8/1/2020	7/31/2023
Christopher Bishop	Altered Serotonergic Function in Parkinson's Disease Contributes to Psychiatric Symptoms	Dignity Health dba St. Joseph's Hospital	100%	\$96,688	4/1/2021	3/31/2023
Christopher Bishop	Normalizing Aberrant Serotonin Function with Novel Gene and Pharmacotherapy for Treatment of Non-Motor Symptoms of Parkinson's Disease	Dignity Health dba St. Joseph's Hospital	100%	\$474,264	1/1/2020	12/31/2022
Christopher Bishop	Interrogating of Nigral Tyrosine Hydroxylase Expression in Movement Initiation Capacity During Nigrostriatal Neuron Loss	University of North Texas Health Science Center	100%	\$604,035	4/1/2021	3/31/2026
Christopher Bishop	The Rat Pre-Formed Alpha-Synuclein Fibril Model of Parkinson's Disease	Michigan State University	100%	\$112,274	8/1/2019	7/31/2020
Christopher Bishop	Targeting raphe-striatal neuroplasticity in L-DOPA-induced dyskinesia	National Inst of Neurological Disorders & Stroke	100%	\$5,121,947	4/1/2020	3/31/2025

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Christopher Bishop	The Role of Dopamine D1-D3 Receptor Cooperativity in L-DOPA-induced Dyskinesia	National Inst of Neurological Disorders & Stroke	100%	\$2,320,574	7/1/2020	6/30/2025
David Werner	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	National Institute for Alcohol Abuse & Alcoholism	34%	\$665,312	9/1/2020	8/31/2025
David Werner	R01 Cross Seeding Between Beta-Amyloid Fibrillar Variants: A Pathologically Relevant Event that Modulates the Amyloid Molecular Polymorphisms and Neuronal Toxicity	National Institutes of Health	25%	\$469,860	9/1/2020	8/31/2025
Elena Varlinskaia	Impact of Prenatal Ethanol on BLA Synaptic Plasticity - resubmission	National Institute for Alcohol Abuse & Alcoholism	5%	\$20,904	4/1/2020	3/31/2022
Elena Varlinskaia	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	National Institute for Alcohol Abuse & Alcoholism	33%	\$645,744	9/1/2020	8/31/2025
Elena Varlinskaia	Impact of Prenatal Ethanol on mPFC-BLA Synaptic Plasticity	National Institute for Alcohol Abuse & Alcoholism	5%	\$20,904	9/1/2020	8/31/2022
Erin Jant	Collaborative Research: Girls' participation in STEM: The Role of Parent-Child Interactions in Museums on Children's Gender Stereotypes About Brilliance	National Science Foundation	100%	\$180,486	9/1/2020	8/31/2022
Erin Jant	Fostering Family Interactions in the Museum	Sciencenter	100%	\$123,200	9/1/2020	8/31/2022
Florence Varodayan	Alcohol-Induced Neuroadaptation of Prefrontal Cortical Projections	National Institute for Alcohol Abuse & Alcoholism	100%	\$747,000	2/1/2020	1/31/2023
Florence Varodayan	The Role of Microglia in Mediating the Effects of Alcohol on Alzheimer's Disease Pathology	University of Rochester	100%	\$53,176	9/1/2020	8/31/2025
James Jentsch	Resisting Temptation for Drugs of Abuse	Stanford University	100%	\$628,000	9/1/2020	8/31/2025
Jennifer Gillis Mattson	Improving Family Capacity Together (IFaCT)	Westchester Insitute for Human Development	100%	\$111,509	9/1/2020	8/31/2023

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Jennifer Gillis Mattson	Understanding and Predicting Chronic Absenteeism from School in Autism Spectrum Disorder: A Data-Driven Approach	Robert Wood Johnson Foundation	33%	\$118,470	9/15/2020	9/14/2023
Jennifer Gillis Mattson	BRCASD 2020-2021	University at Albany	100%	\$55,000	7/1/2020	6/30/2021
Kenneth Kurtz	New Frontiers in Understanding Human Concept Learning: Advancing Theory and Pedagogy	National Science Foundation	70%	\$476,216	2/1/2020	1/31/2023
Linda Spear	2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety	National Institute for Alcohol Abuse & Alcoholism	33%	\$645,744	9/1/2020	8/31/2025
Lisa Savage	7/8 NADIA U01 Recovery of Adolescent Alcohol Disruption of Basal Forebrain-Cortical Projection Circuits	National Institute for Alcohol Abuse & Alcoholism	100%	\$1,325,950	9/1/2020	8/31/2025
Lisa Savage	Adolescent Alcohol Silencing of Basal Forebrain Cholinergic Neuron Phenotype	University of North Carolina at Chapel Hill	100%	\$208,315	4/1/2023	3/31/2025
Lisa Savage	Administrative Supplement for NIH Grant #P50AA017823: Developmental Exposure Alcohol Research Center	National Institute for Alcohol Abuse & Alcoholism	50%	\$195,680	7/1/2020	6/30/2021
Marvin Diaz	Impact of Prenatal Ethanol on BLA Synaptic Plasticity - resubmission	National Institute for Alcohol Abuse & Alcoholism	95%	\$397,167	4/1/2020	3/31/2022
Marvin Diaz	F31: Fellowship support for Kathryn Przybysz: Prenatal Alcohol, Amaygdala-Cortical Dysfunction, and Social Impairment	National Institute for Alcohol Abuse & Alcoholism	100%	\$61,440	9/1/2020	8/31/2022
Marvin Diaz	Impact of Prenatal Ethanol on mPFC-BLA Synaptic Plasticity	National Institute for Alcohol Abuse & Alcoholism	95%	\$397,167	9/1/2020	8/31/2022
Marvin Diaz	Moderate Prenatal Alcohol Exposure on Gestational Day 12 Sex-Dependently Impairs Social Behavior in Adult Offspring: The Role of the Basolateral Amygdala-to-Prelimbic Prefrontal Cortex Projection	American Psychological Association	100%	\$5,000	1/1/2020	12/31/2020
Marvin Diaz	Prenatal Methadone and Anxiety Circuitry	Peter F McManus Charitable Trust	100%	\$75,000	11/1/2019	10/31/2020

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Marvin Diaz	Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF	National Institute for Alcohol Abuse & Alcoholism	100%	\$1,928,300	7/1/2020	6/30/2025
Matthew Johnson	Risk as a Moderator of Relationship Education Programs	Administration for Children and Families	100%	\$149,984	4/1/2020	3/31/2022
Nicholas Gaspelin	Linking Covert and Overt Shifts of Attention with Concurrent EEG and Eye Tracking	Pew Charitable Trusts	100%	\$300,000	8/1/2020	7/31/2024
Nicholas Gaspelin	The Impact of Selection History on Visual Search: Evidence from Eye Tracking and ERPs	National Eye Institute	100%	\$817,410	7/1/2020	6/30/2023
Patricia Di Lorenzo	Mechanisms of Neural Coding of Food in the Brainstem	Not Applicable	100%	\$2,576,722	9/1/2020	8/31/2025
Patricia Di Lorenzo	Vagal Influence on Brainstem Plasticity and Neural Coding of Taste	National Inst on Deafness & Other Comm Disorders	100%	\$1,265,096	9/1/2020	8/31/2025
Peter Gerhardstein	SCH:INT:Collaborative Research:Assessment of Chronic Low Back Pain using Multimodal Biomarker Sensing, Transfer Learning and Behavioral Sign	National Science Foundation	50%	\$332,976	9/1/2020	8/31/2024
Peter Gerhardstein	COVID: Measuring Digital Media Overuse in Teens and Young Adults Before and During the COVID-19 Crisis	Children and Screens	100%	\$98,656	6/1/2020	5/31/2021
Rachel Cavalari	Understanding and Predicting Chronic Absenteeism from School in Autism Spectrum Disorder: A Data-Driven Approach	Robert Wood Johnson Foundation	33%	\$118,470	9/15/2020	9/14/2023
Raymond Romanczyk	Dissertation Research Award - Hannah Morton: Assessment of Bullying Experiences in Children with Autism Spectrum Disorder (ASD)	American Psychological Association	100%	\$1,000	1/1/2020	12/31/2020
Terrence Deak	Administrative Supplement for NIH Grant #P50AA017823: Developmental Exposure Alcohol Research Center	National Institute for Alcohol Abuse & Alcoholism	50%	\$195,680	7/1/2020	6/30/2021
			Total # Credited	40.11		
			Total \$ Credited	\$31,784,528		

020 Public Archaeology Facility

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Laurie Miroff	Deer Park Well Line Project, Phase 1 Archaeological Survey, Windham Township, Wyoming County, PA	Borton-Lawson Engineering Incorporated	100%	\$3,621	1/14/2020	1/13/2021
Laurie Miroff	Portville 4 Solar Project, Phase 1 Architectural Survey, Town of Portville, Cattaraugus, NY	C and S Engineering	100%	\$2,847	3/12/2020	3/11/2021
Laurie Miroff	Portville 3 Solar Project, Phase 1 Architectural Survey, Town of Portville, Cattaraugus County, NY	C and S Engineering	100%	\$2,602	3/12/2020	3/11/2021
Laurie Miroff	Ridgewell Solar Project (1.6 acres and 875 ft. access road and walking trail), Phase 1 Cultural Resource Survey, Town of Marbletown, Ulster County, NY	Solar Generation	100%	\$3,136	3/9/2020	3/8/2021
Laurie Miroff	Star L962 and Lounsberry Alternatives Project, Tioga and Chemung Counties, Article VII Application, Cultural Resources Section	LaBella Associates	100%	\$4,329	3/25/2020	3/24/2021
Laurie Miroff	Grand-View-on-Hudson Project (PIN 8755.22), Finding Document, Village of Grand-View-on-Hudson, Rockland County, NY	C and S Engineering	100%	\$3,969	3/9/2020	3/8/2021
Laurie Miroff	RFP-Guidebook to Starting and Sustaining a Battlefield Friends Group	American Battlefield Trust	100%	\$53,835	6/1/2020	5/31/2021
Laurie Miroff	Cultural Resources Survey of Horse Island, Sackets Harbor, NY	NYS Office of Parks Rec & Historic Preservation	100%	\$49,935	3/30/2020	3/29/2021
Laurie Miroff	Cultural Resource Screening (FCC 620), Cresson Hill Tower Project, Town of Windsor, Broome County, NY	C and S Engineering	100%	\$2,222	1/24/2020	1/23/2021
Laurie Miroff	Cultural Resource Screening (FCC 620), Lisle Tower Project, Town of Lisle, Broome County, NY	C and S Engineering	100%	\$2,225	1/24/2020	1/23/2021
Laurie Miroff	Alfred State College Project, Phase 1A Archaeological Survey	C and S Engineering	100%	\$2,870	3/30/2020	3/29/2021
Laurie Miroff	Cole Gravel Mine Project, Phase 1 Archaeological Survey, Town of Rathbone, Steuben County, NY	Cole Trucking and Gravel	100%	\$14,812	1/12/2020	1/11/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Laurie Miroff	Orange County Airport Project, Phase 1A Cultural Resource Assessment, Town of Montgomery, Orange County, NY	McFarland and Johnson Engineers Incorporated	100%	\$3,591	4/30/2020	4/29/2021
Laurie Miroff	Nichols Development Project, Phase 1 Archaeological Survey, Town of Nichols, Tioga County, NY	Tioga County Industrial Development Agency	100%	\$2,459	1/9/2020	1/8/2021
Laurie Miroff	Cultural Resource Screening (FCC 620), Kutalek Road Tower Project, Town of Kirkwood, Broome County, NY	C and S Engineering	100%	\$1,969	1/24/2020	1/23/2021
Laurie Miroff	National Heritage Area Evaluation for Niagara Falls	National Park Service	100%	\$49,997	7/1/2020	6/30/2021
Laurie Miroff	Fenton Sidewalk Project (PIN 9009.44), Phase 1 Architectural Survey	Delta Engineers	100%	\$10,807	3/31/2020	3/30/2021
Laurie Miroff	Phase 3 Data Recovery of Clusters G, H, I, J, K and L of the Ayers 1 Precontact Site, Town of Tioga, Tioga County, NY	F.S. Lopke Contracting Incorporated	100%	\$51,450	3/30/2020	3/29/2021
Laurie Miroff	Greater Binghamton Airport Parcel 1B Project, Phase 1A Archaeological Assessment	McFarland and Johnson Engineers Incorporated	100%	\$1,992	1/3/2020	1/2/2021
Laurie Miroff	Kesselring Historic Preservation Mitigation Project, (TOA#412, Item 5), Town of Milton, Saratoga County, NY	Sage Engineering Associates	100%	\$52,509	3/30/2020	3/29/2021
Laurie Miroff	Cole Gravel Mine Project, Phase 2 Site Examination, Cole Gravel Precontact Site - Locus 1, Town of Rathbone, Stueben County, NY	Cole Trucking and Gravel	100%	\$6,899	4/23/2020	4/22/2021
Laurie Miroff	Binghamton Connect Project, Broome County, Article VII Application, Cultural Resources Section	LaBella Associates	100%	\$4,329	5/11/2020	5/10/2021
Laurie Miroff	Langdon Substation Project, Phase 1A Archaeological Assessment, Town of Kirkwood, Broome County, NY	LaBella Associates	100%	\$3,125	5/11/2020	5/10/2021
Laurie Miroff	Langdon Substation Project, Phase 1B Archaeological Survey, Town of Kirkwood, Broome County, NY	LaBella Associates	100%	\$11,962	5/11/2020	5/10/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Laurie Miroff	Cultural Resource Screening (FCC 620), Maine Tower Project, Town of Maine, Broome County, NY	C and S Engineering	100%	\$2,111	6/3/2020	6/2/2021
Laurie Miroff	Cultural Resource Screening (FCC 620), 35 Quarry Road Tower Project, Town of Saugerties, Ulster County, New York	C and S Engineering	100%	\$2,041	6/3/2020	6/2/2021
Laurie Miroff	Star L962 and Lounsberry Alternative Project, Tioga and Chemung Counties, Predictive Model and Sensitivity Assessment	LaBella Associates	100%	\$2,975	6/15/2020	6/14/2021
Laurie Miroff	L947 Project, Monroe County, Predictive Model and Sensitivity Assessment	LaBella Associates	100%	\$2,975	6/15/2020	6/14/2021
Laurie Miroff	Fenton Sidewalk Project (PIN 9009.44) (20PR01725), Phase 1 Archaeological Survey	Delta Engineers	100%	\$3,243	3/31/2020	3/30/2021
Laurie Miroff	Pipeline 49 Black River Project, Phase 1A Archaeological Assessment and Phase 1B Archaeological Survey (20PR01239)(Revised)	GZA GeoEnvironmental Incorporated	100%	\$10,958	2/25/2020	2/24/2021
Laurie Miroff	Rochester New 115kV Transmission Line Project	LaBella Associates	100%	\$3,000	8/1/2019	12/31/2019
Laurie Miroff	Greece Transmission Line 947 Project, Monroe County, Article VII Application, Cultural Resources Section	LaBella Associates	100%	\$3,053	12/20/2019	12/19/2020
Laurie Miroff	Phase 1B Archaeological Survey Overtime Costs, NYSEG Circuit 879 Project, Clinton County, NY	LaBella Associates	100%	\$3,325	6/26/2019	6/25/2020
Laurie Miroff	Lodestar Energy Hunt Creek Solar Project, Phase 1 Cultural Resource Survey, Town of Nichols, Tioga County, NY	Lodestar Energy	100%	\$5,998	6/24/2019	6/23/2020
Laurie Miroff	Lodestar Energy Smith Creek Road Solar Project, Phase 1 Cultural Resource Survey, Town of Nichols, Tioga County, NY	Lodestar Energy	100%	\$3,232	6/24/2019	6/23/2020
Laurie Miroff	Onondaga Lake Hudson Farms Ecological Enhancement Area Project, Phase 1 Archaeological Survey	Parsons Engineering Science Incorporated	100%	\$4,407	6/26/2019	6/25/2020

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Laurie Miroff	Three Rivers Wildlife Management Area Project, Town of Lysander, Onondaga County, NY	NYS Department of Environmental Conservation	100%	\$24,318	1/1/2020	12/31/2020
Laurie Miroff	Urbanski Solar Addendum Project, Phase 1B Archaeological Survey	Maser Consulting P.A.	100%	\$5,000	7/31/2019	12/31/2019
Laurie Miroff	Kesselring Artifact Photo Project (TOA132-Item 2, Beardsley Project #16109), Towns of Milton and Galway, Saratoga County, NY	Beardsley Design Associates	100%	\$7,056	8/26/2019	8/25/2020
Laurie Miroff	Cornell University Multidisciplinary Building Project, Phase 1 Archaeological Survey, Town of Ithaca, Tompkins County, NY	Cornell University	100%	\$3,396	9/11/2019	9/10/2020
Laurie Miroff	Phase 1 Archaeological Survey, Five Trees Project, Village of Hamilton, Madison County, NY	Colgate University	100%	\$3,756	10/1/2019	9/30/2020
Laurie Miroff	Ogdensburg International Airport Phase 1 Development Project, Phase 1B Archaeological Survey	McFarland and Johnson Engineers Incorporated	100%	\$11,978	10/9/2019	10/8/2020
Laurie Miroff	Watertown International Airport Project, Phase 1A Cultural Resource Assessment, Town of Hounsfield, Jefferson County, NY	McFarland and Johnson Engineers Incorporated	100%	\$2,723	10/14/2019	10/13/2020
Laurie Miroff	Ayers/Brink Mine Project, Phase 2 Site Examination of the Ayers 2 Site, Town of Tioga, Tioga County, NY	F.S. Lopke Contracting Incorporated	100%	\$84,999	3/30/2020	3/29/2021
Laurie Miroff	Varano Solar Project, Phase 1 Archaeological Addendum Survey, Town of Goshen, Orange County, NY	Maser Consulting P.A.	100%	\$3,861	10/9/2019	10/8/2020
Laurie Miroff	Phase 1A Cultural Resource Assessment, SUNY Brockport Infrastructure Improvement Project, Village of Brockport and Town of Sweden, Monroe County, NY	C and S Engineering	100%	\$2,982	11/26/2019	11/25/2020
Laurie Miroff	Phase 1 Archaeological Survey, Parcel 45 Wildlife Management Area Project, Town of Wilton, Saratoga County, NY	NYS Department of Environmental Conservation	100%	\$2,280	10/16/2019	10/15/2020

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Laurie Miroff	Dubois Mine Project, Phase 1 Archaeological Survey, Town of Oxford, Chenango County, NY	Burrell's Excavating Incorporated	100%	\$18,070	12/13/2019	12/12/2020
Laurie Miroff	Cultural Resource Screening (FCC 620), Jakman Tower, Livingston County, NY	C and S Engineering	100%	\$1,937	12/11/2019	12/10/2020
Laurie Miroff	Cultural Resource Screening (FCC 620), Groveland Tower, Livingston County, NY	C and S Engineering	100%	\$1,930	12/11/2019	12/10/2020
Laurie Miroff	Cultural Resource Screening (FCC 620), Annsville Tower, Oneida County, NY	C and S Engineering	100%	\$1,923	12/11/2019	12/10/2020
Laurie Miroff	The Community Archaeology Program at the Whitney Point Middle School, Town of Whitney Point, Broome County, NY	Whitney Point Central School District	100%	\$2,000	7/1/2019	6/30/2020
Laurie Miroff	Phase 1 Archaeological Survey (Areas of Site Impacts - Road, Equipment, Pads, Array area in woodlands), Central Square Solar Project, Town of Hastings, Oswego County, NY	C and S Engineering	100%	\$3,997	12/17/2019	12/16/2020
Laurie Miroff	Preservation and Planning Assessment of the Carillon Battlefield	Fort Ticonderoga Association	100%	\$34,996	12/6/2019	12/5/2020
Laurie Miroff	Phase 2 Site Examination of the Five Trees Historic Site, Elm Hill Development Project, Village of Hamilton, Madison County, NY	Colgate University	100%	\$14,583	11/1/2019	10/31/2020
Laurie Miroff	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology	National Science Foundation	25%	\$69,997	9/1/2020	8/31/2022
Laurie Miroff	Seifert Road Bridge Over Wood Creek Project, Phase 1 Archaeological Survey, Town of Rome, Oneida County, NY	LaBella Associates	100%	\$2,936	10/31/2019	10/30/2020
Laurie Miroff	Structure Documentation, Kent Falls Road Bridge (Oxbow Bridge) (BIN 3335790), Town of Plattsburgh and Schuyler Falls, Clinton County, NY	Stantec Consulting Services Inc	100%	\$3,165	10/21/2019	10/20/2020
Laurie Miroff	Phase 1 Archaeological Survey (Areas of Site Impacts - Road, Converter, Inverter/battery/transformer), Cicero ES2 Solar Project, Town of Cicero, Onondaga County, NY	Convergent Energy Solutions New York LLC	100%	\$3,023	10/18/2019	10/17/2020

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Laurie Miroff	Phase 1 Archaeological Survey (.3 Acres of Site Impacts), Cicero ES1 Solar Project, Town of Cicero, Onondaga County, NY	Convergent Energy Solutions New York LLC	100%	\$2,670	10/18/2019	10/17/2020
Laurie Miroff	Cultural Resource Screening (FCC 620), Floyd Tower, Oneida County, NY	C and S Engineering	100%	\$1,942	12/11/2019	12/10/2020
Nina Versaggi	The Timelessness of Science: Multidisciplinary STEM Learning Through Archaeology	National Science Foundation	25%	\$69,997	9/1/2020	8/31/2022
			Total # Credited	60.50		
			Total \$ Credited	\$780,326		

020 Research VP

Anju Sharma	MRI: Acquisition of Zeiss Xradia 3D X-ray microscope for support of research and education at Binghamton University	National Science Foundation	50%	\$499,169	9/1/2020	8/31/2023
Bahgat Sammakia	Smart Battery Engineering Academy	NYS Energy Research and Development Authority	15%	\$111,618	8/1/2020	7/31/2022
Bahgat Sammakia	Additive Laser Fabrication of Heat Removal Devices	National Science Foundation	25%	\$62,500	1/1/2020	12/31/2021
Bahgat Sammakia	FMRI Equipment for Binghamton Brain and Body Imaging Center (2019 CFA)	Empire State Development Corp	100%	\$2,080,000	1/1/2020	12/31/2023
James Turner	Proof-of-Concept Development of a Wearable Brain PET Imager	Cornell University	50%	\$18,936	4/1/2020	3/31/2021
James Turner	High Energy Density Nanolaminate Capacitors	National Science Foundation	15%	\$37,500	8/1/2020	7/31/2022
James Turner	R01: Thin-slab detectors to revolutionize performance for next generation brain PET imaging	Cornell University	50%	\$133,675	9/1/2020	8/31/2022
James Turner	Low-Cost, Low-Dose, Advanced Brain PET System (Sub-in SBIR LightSpin)	LightSpin Technologies Incorporated	20%	\$69,000	1/1/2021	12/31/2023
M Stanley Whittingham	Battery Technology Development Manufacturing and Commercialization Hub	Empire State Development Corp	100%	\$50,000,000	4/1/2020	3/31/2030

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Mark Poliks	MRI: Acquisition of Zeiss Xradia 3D X-ray microscope for support of research and education at Binghamton University	National Science Foundation	50%	\$499,169	9/1/2020	8/31/2023
Mark Poliks	COVID-19 At-Risk Infection Indication and Monitoring	NextFlex	34%	\$1,328,443	6/1/2020	9/30/2021
Mark Poliks	Circuit Fabrication and Development on Novel Thin-Film Crystalline Silicon on Flexible Molybdenum Foil	Lux Semiconductors LLC	100%	\$220,000	8/1/2020	7/31/2022
Mark Poliks	Conformal Multi-Property Sensor Array for In-Flight Measurements	Innoveering LLC	100%	\$38,499	9/1/2020	2/28/2021
Michael Jacobson	Battles of Stone Arabia and Klock's Field	Fort Plain Museum	75%	\$32,357	7/31/2019	7/30/2021
Steven Czarnecki	High Energy Density Nanolaminate Capacitors	National Science Foundation	15%	\$37,500	8/1/2020	7/31/2022
			Total # Credited	7.99		
			Total \$ Credited	\$55,168,363		

020 Research VP/ Entrepreneurship and Innovation Partnership

Olga Petrova	Scale-Up of Photochemical Manufacturing Process	FuzeHub	100%	\$49,336	7/1/2020	6/30/2021
Olga Petrova	I-Corps Hub: Northeast	Cornell University	50%	\$600,001	10/1/2020	9/30/2025
Per Stromhaug	I-Corps Hub: Northeast	Cornell University	50%	\$600,001	10/1/2020	9/30/2025
Per Stromhaug	76West Clean Energy Southern Tier Showcase	Cornell University	100%	\$28,751	4/1/2020	3/31/2021
Per Stromhaug	Southern Tier Clean Connect	NYS Energy Research and Development Authority	100%	\$750,000	4/1/2020	3/31/2023
Per Stromhaug	empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier	NYS Energy Research and Development Authority	50%	\$375,000	4/1/2020	3/31/2023
Per Stromhaug	SUPPLEMENT: Type 1: Innovation Binghamton NSF I-Corps Site	National Science Foundation	100%	\$100,000	9/1/2020	2/28/2021
			Total # Credited	5.50		
			Total \$ Credited	\$2,503,088		

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
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020 Romance Languages

Bryan Kirschen	CAREER: Ladino Contact and Variation in the United States	National Science Foundation	100%	\$488,351	1/1/2020	12/31/2024
Bryan Kirschen	Documenting Judeo-Spanish through Handwritten Text Recognition	National Endowment for the Humanities	100%	\$99,999	2/1/2021	1/31/2023
			Total # Credited	2.00		
			Total \$ Credited	\$588,350		

020 School Of Management

Alper Yayla	Binghamton University GenCyber Teacher Camp	National Security Agency	25%	\$21,362	1/1/2020	12/31/2020
Chou-Yu Tsai	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$116,250	4/1/2020	3/31/2023
Chou-Yu Tsai	R01: Examining Psychologically Safe Cancer Care Systems to Address Disparities for Rural and Low-Income Populations	National Institute on Minority Health & Health Disparities	10%	\$100,957	1/17/2020	1/16/2023
Francis Yammarino	How to Resume and Maintain Economic Activities in the COVID-19 Era: An Adaptive Social Intervention Approach	Johns Hopkins University	33%	\$16,665	9/1/2020	8/31/2021
George Bobinski	Empire State Development's Life Science Initiative	NYS Department of Economic Development	33%	\$16,500	2/3/2020	2/2/2021
Rory Eckardt	R01: Examining Psychologically Safe Cancer Care Systems to Address Disparities for Rural and Low-Income Populations	National Institute on Minority Health & Health Disparities	10%	\$100,957	1/17/2020	1/16/2023
Shelley Dionne	Empire State Development's Life Science Initiative	NYS Department of Economic Development	34%	\$17,000	2/3/2020	2/2/2021
Shelley Dionne	R01: Examining Psychologically Safe Cancer Care Systems to Address Disparities for Rural and Low-Income Populations	National Institute on Minority Health & Health Disparities	10%	\$100,957	1/17/2020	1/16/2023
Shelley Dionne	How to Resume and Maintain Economic Activities in the COVID-19 Era: An Adaptive Social Intervention Approach	Johns Hopkins University	33%	\$16,665	9/1/2020	8/31/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
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Total # Credited **2.14**
Total \$ Credited **\$507,314**

020 School of Nursing Academic

Ann Fronczek	COVID-19 At-Risk Infection Indication and Monitoring	NextFlex	33%	\$1,289,371	6/1/2020	9/30/2021
Arif Serdar Atav	Evaluation of the Opioid Cohort Project	Truth Pharm	100%	\$36,000	1/1/2020	12/31/2020
Melissa Sutherland	Multi-level Influences of Violence Screening In College Health Centers	Agency for Healthcare Research and Quality	60%	\$803,705	7/1/2020	6/30/2024
Nicole Rouhana	Advanced Nursing Education - Nurse Practitioner Residency Program (ANE-NPR)	Bassett Healthcare	100%	\$100,000	7/1/2019	6/30/2020
Nicole Rouhana	COVID-19 At-Risk Infection Indication and Monitoring	NextFlex	33%	\$1,289,371	6/1/2020	9/30/2021
Nicole Rouhana	Rural Community Opioid Response Program	REACH Project	33%	\$31,933	9/1/2020	8/31/2023
Sharon Bryant	STEP 2020-2025	NYS Education Department	50%	\$573,749	7/1/2020	6/30/2025
Sharon Bryant	BU CSTEP 2020-2025	NYS Education Department	100%	\$1,372,495	7/1/2020	6/30/2025
Yvonne Johnston	Opioid Use Disorder Innovations	Truth Pharm	100%	\$60,000	6/1/2020	5/31/2021
Yvonne Johnston	COVID: Role of PA4878 in biofilm antimicrobial resistance: Model to Return Binghamton Campus to Post-COVID 19 Normalcy	National Institute of Allergy & Infectious Disease	20%	\$157,000	5/1/2020	4/30/2021
Yvonne Johnston	Optimally Changing the Map for Teen Pregnancy Prevention: Program Outcome Evaluation	Family Planning of South Central New York	100%	\$133,460	7/1/2020	6/30/2023
Yvonne Johnston	COVID-19: Development and Implementation of a Return-to-campus Public Health Model	Pfizer Foundation	20%	\$60,000	6/1/2020	5/31/2021
Yvonne Johnston	Rural Community Opioid Response Program	REACH Project	33%	\$31,933	9/1/2020	8/31/2023

Total # Credited **7.82**
Total \$ Credited **\$5,939,018**

020 School of Nursing Deans Office

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Mario Ortiz	Rural Community Opioid Response Program	REACH Project	34%	\$32,901	9/1/2020	8/31/2023
			Total # Credited	0.34		
			Total \$ Credited	\$32,901		
020 Student Affairs/Trio Veterans						
Stephen Rebello	TRIO: Student Support Services: STEM	US Department of Education	100%	\$1,265,160	9/1/2020	8/31/2025
Stephen Rebello	TRIO: Student Support Services	US Department of Education	100%	\$2,083,095	9/1/2021	8/31/2026
			Total # Credited	2.00		
			Total \$ Credited	\$3,348,255		
020 Systems Science and Indust Eng (SSIE)						
Bing Si	Multi-level Influences of Violence Screening In College Health Centers	Agency for Healthcare Research and Quality	40%	\$535,803	7/1/2020	6/30/2024
Changqing Cheng	CAREER: Resilience Design of Complex Networked Systems under Uncertainty and Nonlinear Dynamics	National Science Foundation	100%	\$500,000	3/1/2020	2/28/2025
Changqing Cheng	Sequential Optimal Design for Network Topology Recovery Using Sparse Learning Paradigm	Defense Advanced Research Projects Agency (DARPA)	100%	\$100,000	11/1/2019	10/31/2020
Changqing Cheng	COVID: Spatiotemporal Modeling-Informed Policy Making for Mitigation of COVID-19 Pandemic	AXA Research Fund	100%	\$220,545	9/1/2020	8/31/2022
Changqing Cheng	Machine Learning-enabled Efficient Navigation of Chemical Spaces for Accelerated Material Designs with Multiple Objective Optimization	Camille and Henry Dreyfus Foundation Incorporated	50%	\$78,266	9/1/2020	8/31/2022
Changqing Cheng	Generalized Polynomial Chaos-enhanced Surrogate for SPICE Simulation Under Uncertainty	Defense Advanced Research Projects Agency (DARPA)	100%	\$50,000	1/1/2021	1/31/2021
Christopher Greene	Quality and Reliability Process Analyses for Complex Electronics Assemblies	Smart Modular Technologies Inc	50%	\$34,142	8/17/2020	8/16/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Christopher Greene	Advanced Process Research and Continual Process Improvement for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,381	5/18/2020	5/17/2021
Christopher Greene	Process Analysis and Improvement for the Assembly of Complex Surface Mount Devices	Smart Modular Technologies Inc	50%	\$37,381	5/18/2020	5/17/2021
Christopher Greene	Continued Process Improvement Research for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,381	6/29/2020	6/28/2021
Daehan Won	Digital Transformation of Smart Manufacturing Using an AI/ML-based Approach	Sapphire Automation	33%	\$23,045	7/6/2020	7/5/2021
Daehan Won	Performance Improvement of Clinical Practices and Operations Research 2020-2021	LiveOnNY	25%	\$15,638	5/18/2020	5/17/2021
Daehan Won	Understanding and Predicting Chronic Absenteeism from School in Autism Spectrum Disorder: A Data-Driven Approach	Robert Wood Johnson Foundation	34%	\$122,060	9/15/2020	9/14/2023
Daehan Won	Epifluidics for Stress Monitoring	Nano-Bio Manufacturing Consortium	30%	\$58,186	10/1/2019	9/30/2021
Daehan Won	CAREER: Machine Intelligence in Electronics Manufacturing - A Novel Platform of Data Driven Modeling Toward Defect Free PCB Assembly	National Science Foundation	100%	\$500,000	3/1/2020	2/28/2025
Daryl Santos	Facility-Wide Process Analyses for an OEM of Complex Electronics Assemblies	Smart Modular Technologies Inc	50%	\$33,771	8/5/2019	8/4/2020
Daryl Santos	Process Development and Quality Improvement at Penguin Computing	Penguin Computing Incorporated	50%	\$33,771	8/5/2019	8/4/2020
Daryl Santos	Ongoing Failure Analysis and Reliability Research for DRAM and Flash Memory Products	Smart Modular Technologies Inc	50%	\$33,727	3/2/2020	3/1/2021
Daryl Santos	Ongoing Design Improvement and Optimization for Flash SSD Products	Smart Modular Technologies Inc	50%	\$66,980	4/1/2020	3/31/2021
Fuda Ning	High-temperature Mechanical Tester for Research and Education on Additive Manufacturing of Titanium-based Materials with Tailorable Properties	US Air Force Office of Scientific Research	50%	\$99,970	2/1/2021	1/31/2022

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Fuda Ning	High-temperature Mechanical Tester for Research and Education on Additive Manufacturing of Titanium-based Materials with Tailorable Properties	US Army Research Office	50%	\$99,970	2/1/2021	1/31/2022
Fuda Ning	High-temperature Mechanical Tester for Research and Education on Additive Manufacturing of Titanium-based Materials with Tailorable Properties	US Navy Office of Naval Research	50%	\$99,970	2/1/2021	1/31/2022
Hiroki Sayama	Collaborative Research: Revealing Hidden Dynamics in Temporal Network Data Using a Graph Rewriting Framework	National Science Foundation	100%	\$230,286	6/1/2020	5/31/2023
Hiroki Sayama	R01: Examining Psychologically Safe Cancer Care Systems to Address Disparities for Rural and Low-Income Populations	National Institute on Minority Health & Health Disparities	10%	\$100,957	1/17/2020	1/16/2023
Hiroki Sayama	Decided not to move forward with - SEI: Data Science for All: The Next Generation	New York Hall of Science	50%	\$157,901	8/1/2020	7/31/2024
Hiroki Sayama	How to Resume and Maintain Economic Activities in the COVID-19 Era: An Adaptive Social Intervention Approach	Johns Hopkins University	33%	\$16,670	9/1/2020	8/31/2021
Hiroki Sayama	IGE: Enhancing Students' "Deep Diversity" of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix	National Science Foundation	25%	\$116,250	4/1/2020	3/31/2023
Jia Deng	Multiple-Energy-Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning	National Science Foundation	50%	\$272,471	7/1/2020	6/30/2023
Krishnaswami Srihari	Population Health and Operations Management for Sustainable and Comprehensive Quality Care (AMD 1)	Finger Lakes Community Health (FLCH)	50%	\$4,899	6/13/2020	8/12/2020
Krishnaswami Srihari	Business Intelligence & Performance Improvement at UHSH-Amendment One	United Health Services Hospitals Incorporated	50%	\$173,121	12/25/2019	12/24/2020
Krishnaswami Srihari	Implementing Business Intelligence and Analytics to Large-scale Pharmacy Automation Solution	Innovation Associates	50%	\$98,542	1/20/2020	1/19/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Krishnaswami Srihari	Implementation of Automation in a Surface Mount Technology Company	Sanmina Corporation	50%	\$19,308	2/10/2020	2/9/2021
Krishnaswami Srihari	Business Process Engineering Support for Network Management Systems (CMO) (Amd 21)	Montefiore Hospital and Medical Center	50%	\$65,701	8/27/2018	8/26/2020
Krishnaswami Srihari	Standard Work Documentation and Performance Improvement in Raymond Logistics	Raymond Corporation	34%	\$20,353	8/17/2020	8/16/2021
Krishnaswami Srihari	Digital Transformation of Smart Manufacturing Using an AI/ML-based Approach	Sapphire Automation	34%	\$23,744	7/6/2020	7/5/2021
Krishnaswami Srihari	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	Cooper University Health Care	33%	\$21,058	1/6/2020	1/5/2021
Krishnaswami Srihari	Large-Volume Central Fill Pharmacy System Automation Using Simulation, Optimization, Data Analytics, and Industry 4.0 Principles	Innovation Associates	34%	\$135,490	5/18/2020	5/17/2021
Krishnaswami Srihari	Warehouse Operations Management and Analytics Research and Development (AMD 2)	Bennett Distribution Services Limited Liability Corporation	50%	\$8,971	5/18/2020	8/17/2020
Krishnaswami Srihari	Quality and Reliability Process Analyses for Complex Electronics Assemblies	Smart Modular Technologies Inc	50%	\$34,142	8/17/2020	8/16/2021
Krishnaswami Srihari	Ongoing Design Improvement and Optimization for Flash SSD Products	Smart Modular Technologies Inc	50%	\$66,980	4/1/2020	3/31/2021
Krishnaswami Srihari	Healthcare Analytics and Solutions R&D at Navicent Health	Navicent Health	33%	\$59,140	1/1/2020	12/31/2020
Krishnaswami Srihari	Healthcare Design Research and Development for Operational Efficiency and Value Creation (AMD 2)	EwingCole	50%	\$2,925	4/17/2020	5/16/2020
Krishnaswami Srihari	Organizational Excellence Support at Christiana Care (AMD 4)	Christiana Care Health Services Incorporated	33%	\$22,497	5/18/2020	5/17/2021
Krishnaswami Srihari	Advanced Process Research and Continual Process Improvement for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,381	5/18/2020	5/17/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Krishnaswami Srihari	Process Analysis and Improvement for the Assembly of Complex Surface Mount Devices	Smart Modular Technologies Inc	50%	\$37,381	5/18/2020	5/17/2021
Krishnaswami Srihari	Continued Process Improvement Research for Complex Surface Mount Device Assemblies	Smart Modular Technologies Inc	50%	\$37,381	6/29/2020	6/28/2021
Krishnaswami Srihari	Performance Improvement of Clinical Practices and Operations Research 2020-2021	LiveOnNY	25%	\$15,638	5/18/2020	5/17/2021
Mark Poliks	5.8:Temperature and Humidity Sensing Tag	NextFlex	100%	\$800,000	1/1/2020	12/31/2020
Mark Poliks	High-temperature Mechanical Tester for Research and Education on Additive Manufacturing of Titanium-based Materials with Tailorable Properties	US Army Research Office	50%	\$99,970	2/1/2021	1/31/2022
Mark Poliks	High-temperature Mechanical Tester for Research and Education on Additive Manufacturing of Titanium-based Materials with Tailorable Properties	US Air Force Office of Scientific Research	50%	\$99,970	2/1/2021	1/31/2022
Mark Poliks	Critical Materials, Surfaces, and Interfaces for Advanced Packaging (AMD 1)	Analog Devices, Incorporated	100%	\$19,999	4/1/2020	3/31/2021
Mark Poliks	FlexMed: Evaluation of flip-chip methods suitable for low-cost, limited-temperature flexible substrate materials	Universal Instruments Corporation	100%	\$45,275	3/1/2020	2/28/2021
Mark Poliks	Conformal Multi-Property Sensor Array for Hypersonic Flows	Innoveering LLC	100%	\$71,999	8/31/2020	8/30/2021
Mark Poliks	Corning Master AMD 1: Metallization and R2R Processing of Thin Flexible Inorganic Substrates	Corning Incorporated	100%	\$149,999	12/1/2019	11/30/2020
Mark Poliks	High-temperature Mechanical Tester for Research and Education on Additive Manufacturing of Titanium-based Materials with Tailorable Properties	US Navy Office of Naval Research	50%	\$99,970	2/1/2021	1/31/2022
Mark Poliks	5.7:Additively Manufactured High Temperature Electronics for Hypersonics	NextFlex	100%	\$400,001	1/1/2020	12/31/2020
Mark Poliks	5.6:Evaluation and Testing of Flexible Batteries	Custom Electronics Incorporated	100%	\$75,001	1/1/2020	12/31/2020

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Mark Poliks	5.5:Passive UHF-RFID Tag with Encrypted Security Features for Authentication and Tamper Resistance	NextFlex	100%	\$400,000	1/1/2020	12/31/2020
Mark Poliks	5.4:Factory-to-Field Embedded Sensing for Structural Components	NextFlex	100%	\$500,000	1/1/2020	12/31/2020
Mark Poliks	5.2B:DataCube:Adhesives for Surface Mount and Die Attach	NextFlex	100%	\$150,001	1/1/2020	12/31/2020
Mark Poliks	5.2A:DataCube:Printed Stretchable Conductors	NextFlex	100%	\$250,000	1/1/2020	12/31/2020
Mark Poliks	Wireless Vital Sign Monitoring Devices for Ambulatory Aeromedical Care	Nano-Bio Manufacturing Consortium	100%	\$1,800,001	1/1/2020	12/31/2021
Mark Poliks	5.1:Demonstration of Inkjet Printing as a Path to Digital Manufacturing	NextFlex	100%	\$350,000	1/1/2020	12/31/2020
Mohammad Khasawneh	R01: Examining Psychologically Safe Cancer Care Systems to Address Disparities for Rural and Low-Income Populations	National Institute on Minority Health & Health Disparities	10%	\$100,957	1/17/2020	1/16/2023
Mohammad Khasawneh	Population Health and Operations Management for Sustainable and Comprehensive Quality Care (AMD 1)	Finger Lakes Community Health (FLCH)	50%	\$4,899	6/13/2020	8/12/2020
Mohammad Khasawneh	Healthcare Analytics and Solutions R&D at Navicent Health	Navicent Health	34%	\$60,932	1/1/2020	12/31/2020
Mohammad Khasawneh	Performance Improvement of Clinical Practices and Operations Research 2020-2021	LiveOnNY	25%	\$15,638	5/18/2020	5/17/2021
Mohammad Khasawneh	Organizational Excellence Support at Christiana Care (AMD 4)	Christiana Care Health Services Incorporated	34%	\$23,178	5/18/2020	5/17/2021
Mohammad Khasawneh	Healthcare Design Research and Development for Operational Efficiency and Value Creation (AMD 2)	EwingCole	50%	\$2,925	4/17/2020	5/16/2020
Mohammad Khasawneh	Process Analysis and System Development to Enhance Operational Excellence	Westchester Medical Center	50%	\$34,331	5/17/2020	5/16/2021
Mohammad Khasawneh	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	Montefiore Hospital and Medical Center	50%	\$34,392	8/19/2019	8/18/2020

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Mohammad Khasawneh	Business Process Engineering Support for Network Management Systems (CMO) (Amd 21)	Montefiore Hospital and Medical Center	50%	\$65,701	8/27/2018	8/26/2020
Mohammad Khasawneh	Model Development and Data Analysis for "Spontaneous Ideological Escalation Without Leaders As a Distributed Socio-Dynamical Process"	Waseda University	100%	\$31,416	9/1/2020	2/28/2021
Mohammad Khasawneh	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	Memorial Sloan Kettering Cancer Center	50%	\$67,636	8/26/2019	8/25/2020
Mohammad Khasawneh	Business Intelligence & Performance Improvement at UHSH	United Health Services Hospitals Incorporated	50%	\$177,846	8/26/2019	8/25/2020
Mohammad Khasawneh	Improving The Efficiency and Effectiveness of Healthcare Delivery (Amd 20)	Montefiore Hospital and Medical Center	50%	\$33,252	2/6/2020	2/5/2021
Mohammad Khasawneh	New Frontiers in Coordinated Truck-and-Drone Logistics for Deliveries with a Focus on Rural Medicine	Auburn University	100%	\$60,000	8/16/2020	8/15/2021
Mohammad Khasawneh	Business Intelligence & Performance Improvement at UHSH-Amendment One	United Health Services Hospitals Incorporated	50%	\$173,121	12/25/2019	12/24/2020
Mohammad Khasawneh	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	Cooper University Health Care	34%	\$21,696	1/6/2020	1/5/2021
Nagendra Nagarur	Implementation of Automation in a Surface Mount Technology Company	Sanmina Corporation	50%	\$19,308	2/10/2020	2/9/2021
Nasim Seyed ZadehSaboun	CAREER: Advancing the Modeling of Social and Behavioral Variables in Decision-Making Models	National Science Foundation	100%	\$500,000	3/1/2020	2/28/2025
Peter Borgesen	CHIRP: Reliable Low Temperature Solder Approach	Semiconductor Research Corporation	100%	\$150,000	1/1/2020	12/31/2022
Sangwon Yoon	Intelligent Distributed Forklift Control in Human-Automatic Guided Vehicle Mixed Warehouse Environment	Toyota Material Handling North America	50%	\$38,931	7/1/2020	6/30/2021
Sangwon Yoon	Standard Work Documentation and Performance Improvement in Raymond Logistics	Raymond Corporation	33%	\$19,754	8/17/2020	8/16/2021

<i>Proposal PI</i>	<i>Title</i>	<i>Sponsor Name</i>	<i>% Credited to PI</i>	<i>\$ Credited</i>	<i>Requested Start Date</i>	<i>Requested End Date</i>
Sangwon Yoon	Digital Transformation of Smart Manufacturing Using an AI/ML-based Approach	Sapphire Automation	33%	\$23,045	7/6/2020	7/5/2021
Sangwon Yoon	Large-Volume Central Fill Pharmacy System Automation Using Simulation, Optimization, Data Analytics, and Industry 4.0 Principles	Innovation Associates	33%	\$131,505	5/18/2020	5/17/2021
Sangwon Yoon	Performance Improvement of Clinical Practices and Operations Research 2020-2021	LiveOnNY	25%	\$15,638	5/18/2020	5/17/2021
Sangwon Yoon	Warehouse Operations Management and Analytics Research and Development (AMD 2)	Bennett Distribution Services Limited Liability Corporation	50%	\$8,971	5/18/2020	8/17/2020
Sangwon Yoon	Implementing Business Intelligence and Analytics to Large-scale Pharmacy Automation Solution	Innovation Associates	50%	\$98,542	1/20/2020	1/19/2021
Sangwon Yoon	Warehouse Operations Management and Analytics Research and Development	Bennett Distribution Services Limited Liability Corporation	50%	\$14,989	1/20/2020	5/15/2020
Sangwon Yoon	Supporting New Logistic Network and Transportation System Implementation	Raymond Corporation	33%	\$19,754	8/12/2019	8/11/2020
Sangwon Yoon	State-of-the-Art Heterogeneous Integrated Packaging (SHIP) (Sub-in GE)	General Electric Global Research	33%	\$198,000	5/1/2020	10/31/2023
Sarah Lam	Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System	Cooper University Health Care	33%	\$21,058	1/6/2020	1/5/2021
Sarah Lam	Organizational Excellence Support at Christiana Care (AMD 4)	Christiana Care Health Services Incorporated	33%	\$22,497	5/18/2020	5/17/2021
Sarah Lam	Healthcare Analytics and Solutions R&D at Navicent Health	Navicent Health	33%	\$59,140	1/1/2020	12/31/2020
Soongeol Kwon	CAREER: Deep-Machine-Learning-Driven Stochastic Optimization Framework Toward Optimal Planning and Control of Electric Power Systems Operations	National Science Foundation	100%	\$499,999	3/1/2020	2/28/2025
Soongeol Kwon	Unveiling the Potential of Machine Learning For Mobile and Stationary Battery Management in Warehouse Material Handling	Toyota Material Handling North America	100%	\$321,448	6/1/2020	5/31/2021

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Soongeol Kwon	Large-Volume Central Fill Pharmacy System Automation Using Simulation, Optimization, Data Analytics, and Industry 4.0 Principles	Innovation Associates	33%	\$131,505	5/18/2020	5/17/2021
Sunghoon Chung	Adaptive Same-Day Order Fulfillment and Last-Mile Delivery	Toyota Material Handling North America	100%	\$100,000	5/1/2020	4/30/2021
Sunghoon Chung	COVID: Collaborative Research: Using drones to disinfect urban streets and protect the most vulnerable population from the spread of COVID-19	National Science Foundation	100%	\$237,681	8/1/2020	7/31/2023
Sunghoon Chung	CAREER: Safety-aware Adaptive Routing for Smart and Connected Vehicle Systems	National Science Foundation	100%	\$500,000	3/1/2020	2/28/2025
Susan Shuxia Lu	Low-Cost and Highly-Efficient Hydrogen Production from Water Splitting	National Science Foundation	100%	\$50,000	1/15/2020	7/14/2020
Yong Wang	CAREER: Transforming Manufacturing Systems into Power Grid Resources Through Demand Response	National Science Foundation	100%	\$500,000	1/1/2020	12/31/2024
Yong Wang	Supporting New Logistic Network and Transportation System Implementation	Raymond Corporation	33%	\$19,754	8/12/2019	8/11/2020
Yong Wang	Intelligent Distributed Forklift Control in Human-Automatic Guided Vehicle Mixed Warehouse Environment	Toyota Material Handling North America	50%	\$38,931	7/1/2020	6/30/2021
Yong Wang	JamestownBPU-BU Smart Cities Innovation Partnership (Sub-in)	Jamestown Board of Public Utilities	34%	\$11,730	1/1/2021	12/31/2021
Yong Wang	Standard Work Documentation and Performance Improvement in Raymond Logistics	Raymond Corporation	33%	\$19,754	8/17/2020	8/16/2021
				Total # Credited	62.15	
				Total \$ Credited	\$14,589,198	

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Bahgat Sammakia	BAE 2020 ES2 I/UCRC Membership	BAE Systems Controls Incorporated	50%	\$30,000	3/1/2020	2/28/2021
Bahgat Sammakia	Microsoft's ES2/IUCRC Membership 2020-2022	Microsoft Corporation	50%	\$25,000	5/1/2020	4/30/2022

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Kanad Ghose	Microsoft's ES2/IUCRC Membership 2020-2022	Microsoft Corporation	50%	\$25,000	5/1/2020	4/30/2022
Kanad Ghose	BAE 2020 ES2 I/UCRC Membership	BAE Systems Controls Incorporated	50%	\$30,000	3/1/2020	2/28/2021
Krishnaswami Srihari	Supporting New Logistic Network and Transportation System Implementation	Raymond Corporation	34%	\$20,353	8/12/2019	8/11/2020
Krishnaswami Srihari	Hardware Validation Testing Solution Development for Operations Integration at Facebook Infrastructure	Facebook Incorporated	100%	\$72,530	5/17/2020	5/16/2021
Krishnaswami Srihari	Ongoing Failure Analysis and Reliability Research for DRAM and Flash Memory Products	Smart Modular Technologies Inc	50%	\$33,727	3/2/2020	3/1/2021
Krishnaswami Srihari	Improving The Efficiency and Effectiveness of Healthcare Delivery (Amd 20)	Montefiore Hospital and Medical Center	50%	\$33,252	2/6/2020	2/5/2021
Krishnaswami Srihari	Process Analysis and System Development to Enhance Operational Excellence	Westchester Medical Center	50%	\$34,331	5/17/2020	5/16/2021
Krishnaswami Srihari	Warehouse Operations Management and Analytics Research and Development	Bennett Distribution Services Limited Liability Corporation	50%	\$14,989	1/20/2020	5/15/2020
Krishnaswami Srihari	Improving Quality, Safety, and Patient Flow and Outpatient Medication Management	Memorial Sloan Kettering Cancer Center	50%	\$67,636	8/26/2019	8/25/2020
Krishnaswami Srihari	Process Analysis and Performance Excellence for Integrated Delivery Care Systems	Montefiore Hospital and Medical Center	50%	\$34,392	8/19/2019	8/18/2020
Krishnaswami Srihari	Process Development and Quality Improvement at Penguin Computing	Penguin Computing Incorporated	50%	\$33,771	8/5/2019	8/4/2020
Krishnaswami Srihari	Facility-Wide Process Analyses for an OEM of Complex Electronics Assemblies	Smart Modular Technologies Inc	50%	\$33,771	8/5/2019	8/4/2020
Krishnaswami Srihari	Business Intelligence & Performance Improvement at UHSH	United Health Services Hospitals Incorporated	50%	\$177,846	8/26/2019	8/25/2020
Monica Majors	STEP 2020-2025	NYS Education Department	50%	\$573,749	7/1/2020	6/30/2025
Monica Majors	U-RISE at SUNY Binghamton University	National Institute of General Medical Sciences	33%	\$1,341,572	8/15/2021	8/14/2026

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Seungbae Park	Snake Creek Laser's Participating Membership in the IEEC 2020-2021	Snake Creek Lasers LLC	100%	\$5,000	5/1/2020	4/30/2021
Seungbae Park	Lockheed Membership in the IEEC, 2020	Lockheed Martin	100%	\$60,000	1/1/2020	12/31/2020
Seungbae Park	BAE's Full Membership in the IEEC 2020	BAE Systems Controls Incorporated	100%	\$60,000	1/1/2020	12/31/2020
Seungbae Park	Universal Instrument's Participating Membership in the IEEC, 2020	Universal Instruments Corporation	100%	\$5,000	1/1/2020	12/31/2020
Seungbae Park	Ashlawn's Full Membership in the IEEC, 2020-2021	Ashlawn Energy, LLC	100%	\$20,000	5/1/2020	4/30/2021
Seungbae Park	i3's Participating Membership in IEEC, 2020-2021	i3 Electronics Incorporated	100%	\$5,000	5/1/2020	4/30/2021
Seungbae Park	Raymond Corporation's Participating Membership in the IEEC 2020-2021	Raymond Corporation	100%	\$5,000	5/24/2020	5/23/2021

Total # Credited **15.67**

Total \$ Credited **\$2,741,915**

Total Proposals Submitted:	560.00
Total Amount Requested:	\$265,336,990