## Sponsored Programs Proposal Submission Report

**For the period July 1, 2020 to December 31, 2020**

<table>
<thead>
<tr>
<th>Proposal PI</th>
<th>Title</th>
<th>Sponsor Name</th>
<th>% Credited to PI</th>
<th>$ Credited</th>
<th>Requested Start Date</th>
<th>Requested End Date</th>
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<tr>
<td><strong>020 Anthropology</strong></td>
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<tr>
<td>BrieAnna Langlie</td>
<td>Collaborative Research: Growing Inequality in Changing Climates: Agropastoral Strategy and Social Change in the Late Prehispanic Andes</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$151,152</td>
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<td>BrieAnna Langlie</td>
<td>Shifting Terrain in the Late Prehispanic Andes: Cultivating Community, Inequality, and Security in Changing Climates</td>
<td>National Endowment for the Humanities</td>
<td>100%</td>
<td>$149,940</td>
<td>6/1/2021</td>
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<td>Katherine Wander</td>
<td>DDRIG: Evolutionary implications of neurodegenerative disease: inflammation and longevity in post-WWII Guamanian amyotrophic lateral sclerosis</td>
<td>National Science Foundation</td>
<td>100%</td>
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<td>Katherine Wander</td>
<td>Dissertation Fieldwork Grants - Risana Chowdhury</td>
<td>Wenner Gren Foundation for Anthropological Research</td>
<td>100%</td>
<td>$20,000</td>
<td>7/1/2020</td>
<td>6/30/2021</td>
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<tr>
<td>Katherine Wander</td>
<td>Layers of risk: using system dynamics modeling to integrate geospatial, ecological, and human behavioral factors affecting tick-borne disease transmission in built environments</td>
<td>National Science Foundation</td>
<td>25%</td>
<td>$552,766</td>
<td>6/1/2021</td>
<td>5/31/2025</td>
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<tr>
<td>Michel Shamoon-Pour</td>
<td>Layers of risk: using system dynamics modeling to integrate geospatial, ecological, and human behavioral factors affecting tick-borne disease transmission in built environments</td>
<td>National Science Foundation</td>
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<td>$552,766</td>
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<tr>
<td>Ralph Garruto</td>
<td>Layers of risk: using system dynamics modeling to integrate geospatial, ecological, and human behavioral factors affecting tick-borne disease transmission in built environments</td>
<td>National Science Foundation</td>
<td>25%</td>
<td>$552,766</td>
<td>6/1/2021</td>
<td>5/31/2025</td>
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<tr>
<td>Randy McGuire</td>
<td>Doctoral Dissertation Research: Beyond the Purple Paint: Trincheras Pottery and Cultural Connectivity in Northern Sonora, Mexico</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$20,299</td>
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| 020 Arts and Sciences Dean | Carl Lipo  
Community Resilience to Freshwater Scarcity and Climate Change on Rapa Nui (Easter Island) : Robert J. DiNapoli | Wenner Gren Foundation for Anthropological Res | 100% | $19,970 | 10/29/2020 | 10/28/2021 |
| 020 Biological Sciences | Claudia Marques  
F31: Fellowship Support for Cody Hastings: Host Immune Response to P. aeruginosa Persister Cells | National Institutes of Health | 100% | $61,440 | 4/1/2021 | 3/31/2023 |
<p>| Claudia Marques | R01 Supplement: Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure | National Institutes of Health | 50% | $81,420 | 12/1/2020 | 11/30/2021 |
| James Sobel | Collaborative Research: The Processes That Shape the Genomic Landscape of Speciation Across Time, Space, and Ecology | National Science Foundation | 100% | $595,948 | 3/1/2021 | 2/29/2024 |
| Jessica Hua Meindl | CAREER: Evolutionary Disease Ecology- Can Evolutionary Responses to Environmental Change Modify the Biodiversity-Disease Relationship? | National Science Foundation | 100% | $971,030 | 8/1/2021 | 7/31/2026 |
| Jessica Hua Meindl | IGE: Translational Research in Ecology and Environmental Science (TREES) | National Science Foundation | 25% | $123,847 | 8/1/2021 | 7/31/2024 |
| Karin Sauer | Role of PA4878 in biofilm antimicrobial resistance | National Institute of Allergy &amp; Infectious Disease | 100% | $1,648,443 | 12/1/2021 | 11/30/2026 |</p>
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<th>$ Credited</th>
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<th>Requested End Date</th>
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<tr>
<td>Kirsten Prior</td>
<td>CAREER: Disentangling the effects of altered community interactions under anthropogenic range expansions: biogeographical tests in a multitrophic community</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$910,504</td>
<td>4/1/2021</td>
<td>3/31/2026</td>
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<tr>
<td>Kirsten Prior</td>
<td>IGE: Translational Research in Ecology and Environmental Science (TREES)</td>
<td>National Science Foundation</td>
<td>25%</td>
<td>$123,847</td>
<td>8/1/2021</td>
<td>7/31/2024</td>
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<tr>
<td>Laura Cook</td>
<td>The Effect of the Pharyngeal Microbiota on Carriage of Streptococcus pyogenes</td>
<td>Pew Charitable Trusts</td>
<td>100%</td>
<td>$300,000</td>
<td>8/1/2021</td>
<td>7/31/2025</td>
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<tr>
<td>Laura Cook</td>
<td>Characterization of a Novel Vaccine Candidate in GBS</td>
<td>Johnson and Johnson</td>
<td>100%</td>
<td>$150,000</td>
<td>7/1/2021</td>
<td>6/30/2024</td>
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<tr>
<td>Laura Cook</td>
<td>The Effect of the Pharyngeal Microbiota on Carriage of Streptococcus pyogenes</td>
<td>CIFAR</td>
<td>100%</td>
<td>$75,060</td>
<td>4/1/2021</td>
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<td>Laura Musselman</td>
<td>CAREER: Organ-Specific Roles in the Control of Systemic Metabolic Homeostasis</td>
<td>National Science Foundation</td>
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<td>Laura Musselman</td>
<td>AHA Fellowship for Christie Santoro: Mechanisms underlying cardiac lipotoxicity during overnutrition</td>
<td>American Heart Association Northeast Affiliate</td>
<td>100%</td>
<td>$63,040</td>
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<td>Lindsey Swierk</td>
<td>REU Site: Native Student Training in the Amazon Rainforest (Native STAR)</td>
<td>National Science Foundation</td>
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<td>Peter McKenney</td>
<td>Boehringer Ingelheim Transition Grant 2020</td>
<td>Boehringer Ingelheim Pharmaceutical</td>
<td>100%</td>
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<td>Thomas Powell</td>
<td>CAREER: Seasonal Adaptation and the Maintenance of Standing Genetic Variation</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$900,594</td>
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**020 Biomedical Engineering**

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<th>Requested Start Date</th>
<th>Requested End Date</th>
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<tbody>
<tr>
<td>Ahyeon Koh</td>
<td>COVID: Wearable Real-time Health Monitoring for Early Detection and Mitigation of Viral Respiratory Disease</td>
<td>Department of Defense (CDMRP)</td>
<td>20%</td>
<td>$305,731</td>
<td>9/1/2020</td>
<td>8/31/2024</td>
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<tr>
<td>Ahyeon Koh</td>
<td>CAREER: Artificial Extracellular Matrix Biosensors (e-ECM)</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$500,081</td>
<td>1/1/2021</td>
<td>12/31/2025</td>
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<td>Ahyeon Koh</td>
<td>R35: Wound Monitoring System on the Artificial Extracellular Matrix</td>
<td>National Institutes of Health</td>
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<td>Ahyeon Koh</td>
<td>Wearable Artificial Intelligence-Enabled Respiratory Health Monitoring</td>
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<td>Fake Lu</td>
<td>R01 Resubmission: Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications</td>
<td>National Institutes of Health</td>
<td>25%</td>
<td>$482,075</td>
<td>8/1/2021</td>
<td>7/31/2026</td>
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<tr>
<td>Gretchen Mahler</td>
<td>ASN Fellowship for Stephanie Zhang: A Human Glomerulus And Proximal Convoluted Tubule Microphysiological System To Reproduce Drug-Induced Kidney Injuries</td>
<td>American Society of Nephrology</td>
<td>100%</td>
<td>$60,000</td>
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<td>Gretchen Mahler</td>
<td>R01 Supplement: Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure</td>
<td>National Institutes of Health</td>
<td>50%</td>
<td>$81,420</td>
<td>12/1/2020</td>
<td>11/30/2021</td>
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<td>Guy German</td>
<td>Development of a Reusable, Self-enabled Smart Catheter (Sub-in CathBuddy)</td>
<td>CathBuddy</td>
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<tr>
<td>Guy German</td>
<td>I-Corps: A Device to Prevent Rolling Veins</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$50,000</td>
<td>8/26/2020</td>
<td>8/25/2021</td>
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<tr>
<td>Kaiming Ye</td>
<td>R21 Transfer: Development Of A Smartphone-Based Infrared-Fluorescenceimaging Intraoral Device (Smart-Ir-Id) For Dentist-Guided Realtime Self-Monitoring Of Periodontal Disease</td>
<td>National Institutes of Health</td>
<td>100%</td>
<td>$304,010</td>
<td>9/1/2020</td>
<td>8/31/2021</td>
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<td>Kaiming Ye</td>
<td>R01: Role of Angiopoietin in in vitro Islet Development</td>
<td>National Institutes of Health</td>
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<td>$392,500</td>
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<td>Sha Jin</td>
<td>R01: Role of Angiopoietin in in vitro Islet Development</td>
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<tr>
<td>Ying Wang</td>
<td>Engineering multi-organ microphysiological systems to interrogate breast cancer brain metastasis</td>
<td>Johnson and Johnson</td>
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<td>6/30/2024</td>
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<tr>
<td>Yuan Wan</td>
<td>R03: Engineered Extracellular Vesicles Harboring High-affinity PD-1 Variants as Immune Checkpoint Inhibitors for Homotypic Tumor Immunotherapy and Chemotherapy</td>
<td>National Institutes of Health</td>
<td>100%</td>
<td>$143,320</td>
<td>7/1/2021</td>
<td>6/30/2023</td>
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<td>Yuan Wan</td>
<td>Continuation: Lipid nanoprobe integrated microdevice for extracellular vesicle isolation and duplex sequencing based mutation detection for non-invasive lung cancer diagnosis</td>
<td>Carnegie Mellon University</td>
<td>100%</td>
<td>$344,452</td>
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<td>Yuan Wan</td>
<td>R01: Liquid biopsy of solitary pulmonary nodule with extracellular vesicles</td>
<td>National Institutes of Health</td>
<td>100%</td>
<td>$2,975,885</td>
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<td>Yuan Wan</td>
<td>CAREER: Discovery of Extracellular Vesicles-derived miRNAs as Therapeutic Targets in Breast Cancer</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$500,109</td>
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<tr>
<td>Yuan Wan</td>
<td>SONY 2020: Engineered Extracellular Vesicles Harboring High-affinity PD-1 Variants as Immune Checkpoint Inhibitors and Chemotherapeutic Cargos for Homotypic Tumor Immunotherapy and Chemotherapy</td>
<td>Sony Corporation</td>
<td>100%</td>
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<td>Yuan Wan</td>
<td>R03 Cholesterol functionalized chromatography for rapid efficient isolation of pure extracellular vesicles</td>
<td>National Institutes of Health</td>
<td>100%</td>
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<td>7/1/2021</td>
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| Total # Credited | 16.40 |
| Total $ Credited | $10,436,776 |

**020 CCPA Deans Office**

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<th>$ Credited</th>
<th>Requested Start Date</th>
<th>Requested End Date</th>
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<td>Casey Pulz</td>
<td>Broome County Youth Bureau - Summer Zones</td>
<td>Broome County Youth Bureau</td>
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<td>Laura Bronstein</td>
<td>Helping Youth on the Path to Employment: Creating Economic Self-Sufficiency</td>
<td>University of Massachusetts</td>
<td>100%</td>
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<td>Laura Bronstein</td>
<td>Community Schools Technical Assistance Centers CARES Act Contract Expansion</td>
<td>NYS Education Department</td>
<td>50%</td>
<td>$625,001</td>
<td>4/1/2021</td>
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<td>LuAnn Kida</td>
<td>Binghamton University Community Schools</td>
<td>Broome County Department of Mental Health</td>
<td>100%</td>
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<tr>
<td>LuAnn Kida</td>
<td>Community Schools Technical Assistance Centers CARES Act Contract Expansion</td>
<td>NYS Education Department</td>
<td>50%</td>
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<td><strong>$1,493,993</strong></td>
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**020 CCPA Human Development**

| Leo Wilton | Advancing Knowledge on Factors that Promote/Impede Engagement Along the HIV Care Continuum Over Time: A Longitudinal Mixed-Methods Study with African American/Black and Latinx Youth Living with HIV | National Institutes of Health                   | 100%             | $465,206   | 4/1/2021             | 3/31/2025         |
| **Total # Credited** | **1.00**                                                             | **Total $ Credited**                             |                  | **$465,206**       |                     |

**020 CCPA Public Administration**

| **Total # Credited** | **0.50**                                                             | **Total $ Credited**                             |                  | **$10,000**       |                     |

**020 CCPA Social Work**
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<tr>
<td>Kimberly Brimhall</td>
<td>Examining Psychologically Safe Cancer Care Systems to Improve Quality and Safety of Cancer Care for Rural and Low-Income Populations: A Longitudinal Mixed-Methods Approach</td>
<td>Agency for Healthcare Research and Quality</td>
<td>50%</td>
<td>$474,128</td>
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<td>Melissa Hardesty</td>
<td>Adoption Photolisting in the Digital Age</td>
<td>Wenner Gren Foundation for Anthropological Res</td>
<td>100%</td>
<td>$20,000</td>
<td>7/1/2021</td>
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**Total # Credited** | **1.50**
**Total $ Credited** | **$494,128**

### 020 CCPA Teaching Learning Educ Leadership

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<td>Amber Simpson</td>
<td>CAREER: M2ATcHs</td>
<td>National Science Foundation</td>
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<td>Amber Simpson</td>
<td>Binghamton University GenCyber Teacher Camp</td>
<td>National Security Agency</td>
<td>25%</td>
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<td>Candace Mulcahy</td>
<td>Collaborative Research: MIND-MAPS Monitoring and INtervention for Disabilities in MAthematics Problem Solving</td>
<td>National Science Foundation</td>
<td>100%</td>
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<td>Nicole Fenty</td>
<td>Coding is Lit: Collaborative Design and Development</td>
<td>Spencer Foundation</td>
<td>100%</td>
<td>$50,000</td>
<td>7/1/2021</td>
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<tr>
<td>Pamela Sandoval</td>
<td>IGE: Enhancing Students' Deep Diversity of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix</td>
<td>National Science Foundation</td>
<td>25%</td>
<td>$125,000</td>
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**Total # Credited** | **3.50**
**Total $ Credited** | **$1,165,381**

### 020 Chemistry

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<th>Requested End Date</th>
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<tr>
<td>Brian Callahan</td>
<td>R03 Rapid SARS-CoV-2 Detection Using Amplicon Templated Reporter Enzyme Assembly</td>
<td>National Institutes of Health</td>
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<td>Chuan Jian Zhong</td>
<td>PFI: Anaerobic Digestion (AD) Innovation and Organizational Teaming: Accelerating Commercialization of Renewable Natural Gas (RNG)</td>
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<td>Controlled synthesis of multi-metallic nanoscale alloys</td>
<td>BASF Corporation</td>
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<td>Role of Dynamic Surface/Subsurface Oxygenation of Noble Metal/3d-Transition Metal Alloy Nanoparticles in Oxidation Reactions</td>
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<td>NSF CBET: Design of Nanocomposite-Structured Sensor Arrays for Breath Detection of Lung Cancer</td>
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<td>Eriks Rozners</td>
<td>Collaborative Research - Nucleobase-Modified PNA for Sequence Selective Triple-Helical Recognition of Non-Coding RNA</td>
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<td>NSF SBIR PHASE I: pH-Sensitive Prodrug for Targeted Cancer Chemotherapy</td>
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<td>Hao Liu</td>
<td>NSF SBIR Phase I: Aluminosilicate-Based Solid-State Electrolyte for Sodium-Ion Batteries</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$65,999</td>
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<td>Hao Liu</td>
<td>CAREER: Mechanically Robust Battery Cathodes Through Pillared Layered Oxides</td>
<td>National Science Foundation</td>
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<td>Hao Liu</td>
<td>REU Supplement: Rational Design of Oxide Cathode Coatings for High Performance Li-ion Batteries</td>
<td>National Science Foundation</td>
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<td>Aluminosilicate-Based Solid-State Electrolyte for Sodium-Ion Batteries</td>
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<td>$65,999</td>
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<td>Hao Liu</td>
<td>Understanding the structural and electronic effects on heterogeneous catalysis of aerobic oxidative desulfurization</td>
<td>American Chemical Society</td>
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<td>Jennifer Hirschi</td>
<td>R15 - Mechanistic Investigation into Photoredox Catalysis</td>
<td>National Institute of General Medical Sciences</td>
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<td>John Swierk</td>
<td>CAREER: Mechanistic Investigations of Photoredox Reactions</td>
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<td>Julien Panetier</td>
<td>R35: Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation</td>
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<td>M Stanley Whittingham</td>
<td>STTR Phase II - Multi-Electron Intercalation Reactions for High Capacity Lithium Batteries</td>
<td>DiMien LLC</td>
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<td>$213,951</td>
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<td>Ming An</td>
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<td>Puja Goyal</td>
<td>Cobalamin photochemistry in transcription-regulating photoreceptor proteins and empowering students with psychological resilience</td>
<td>Research Corporation for Science Advancement</td>
<td>100%</td>
<td>$100,000</td>
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<td>Puja Goyal</td>
<td>R01: Structural Characterization of a Bi-Directional Transport Module for Nuclear Positioning</td>
<td>National Institute of General Medical Sciences</td>
<td>5%</td>
<td>$112,752</td>
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<td>Sozanne Solmaz</td>
<td>CAREER: Characterization of structural dynamics and coiled-coil registry shifts in Bicaudal D2</td>
<td>National Science Foundation</td>
<td>100%</td>
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<td>R01: Structural Characterization of a Bi-Directional Transport Module for Nuclear Positioning</td>
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<td>Susan Bane Tuttle</td>
<td>Expanding the Utility of Boronic Acid-Based Bioorthogonal Reactions</td>
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<td>Wei Qiang</td>
<td>Collaborative Research: Fabrication of Filamentous Cell Penetrating Peptides as Novel Membrane-Active Biomaterials</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$278,406</td>
<td>7/1/2021</td>
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### 020 Computer Science

| Aravind Prakash | Binghamton University Scholarship for Service: Expanding and Strengthening the Cybersecurity Workforce | National Science Foundation | 15% | $442,238 | 9/1/2021 | 8/31/2026 |
| Aravind Prakash | CAREER: Binary-Level Security via ABI-Centric Semantic Inference | National Science Foundation | 100% | $499,950 | 8/1/2021 | 7/31/2026 |
| Dmitry Ponomarev | Binghamton University Scholarship for Service: Expanding and Strengthening the Cybersecurity Workforce | National Science Foundation | 15% | $442,238 | 9/1/2021 | 8/31/2026 |
| Guanhua Yan | Binghamton University GenCyber Teacher Camp | National Security Agency | 25% | $20,611 | 4/1/2021 | 3/31/2022 |
| Guanhua Yan | Machine Learning-Assisted Fuzzing for Security Testing of Internet-of-Things | Sony Corporation | 100% | $100,000 | 5/1/2021 | 4/30/2022 |
| Jeremy Blackburn | Collaborative Research: SaTC: Core: Small: Detecting Accounts Involved in Influence Campaigns on Social Media | National Science Foundation | 100% | $220,000 | 10/1/2021 | 9/30/2023 |
| Jeremy Blackburn | CAREER: Towards a Data-driven Understanding of Online Extremism | National Science Foundation | 100% | $517,484 | 7/1/2021 | 6/30/2026 |
| Jeremy Blackburn | Collaborative Research: HCC: Medium: Quantitative Methods to Understand the Hybrid Media System | National Science Foundation | 100% | $372,724 | 10/1/2021 | 9/30/2025 |
| Kanad Ghose | Liquid to Air Data Center Cooling Lab Development | NVIDIA Corporation | 50% | $25,000 | 10/1/2020 | 12/31/2020 |

**Total # Credited**: 20.71  
**Total $ Credited**: $10,503,898
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<td>Kanad Ghose</td>
<td>Collaborative Research: NGSDI: Metric-Driven, Sustainable-by-Design Software Systems for Cloud Data Centers</td>
<td>National Science Foundation</td>
<td>33%</td>
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<td>15%</td>
<td>$442,238</td>
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<td>Kartik Gopalan</td>
<td>Collaborative Research: NGSDI: Metric-Driven, Sustainable-by-Design Software Systems for Cloud Data Centers</td>
<td>National Science Foundation</td>
<td>33%</td>
<td>$398,716</td>
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<td>9/30/2024</td>
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<td>Kenneth Chiu</td>
<td>SRA - Performance Measurement, Analysis, and Tuning of Seismic and Machine Learning Workloads</td>
<td>TOTAL E&amp;P Research &amp; Technology USA, LLC</td>
<td>100%</td>
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<td>Lijun Yin</td>
<td>Enhancing Pain Evaluation using Facial Expressions</td>
<td>Massachusetts General Hospital</td>
<td>100%</td>
<td>$31,400</td>
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<td>Mo Sha</td>
<td>CAREER: Advancing Network Configuration and Runtime Adaptation Methods for Industrial Wireless Sensor-Actuator Networks</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$500,000</td>
<td>5/1/2021</td>
<td>4/30/2026</td>
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<td>Ping Yang</td>
<td>Binghamton University Scholarship for Service: Expanding and Strengthening the Cybersecurity Workforce</td>
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<td>National Security Agency</td>
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<td>Seunghee Shin</td>
<td>Research on CPU vulnerability detection and validation_2020</td>
<td>Korea University</td>
<td>100%</td>
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<td>Weiying Dai</td>
<td>III: Small: Computational modeling of baseline brain function</td>
<td>National Science Foundation</td>
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<td>$324,999</td>
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<td>Weiying Dai</td>
<td>CRCNS Research Proposal: Collaborative Research: Global integration of brain functional networks</td>
<td>National Science Foundation</td>
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<td>$599,990</td>
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<td>Yifan Zhang</td>
<td>REU Supplement to CAREER: Enabling Edge-hosted Private Services via Unikernel-based Lightweight Virtualization</td>
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<td>Andreas Pape</td>
<td>IGE: Enhancing Students' Deep Diversity of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix</td>
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<td>Douglas Summerville</td>
<td>STTR: The Development of Extreme Fast Charging (XFC) Solutions to Support Electric Aircraft Development and Large-scale Production and Fleet Support</td>
<td>Jaunt Air Mobility</td>
<td>100%</td>
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<td>Emrah Akyol</td>
<td>CAREER: Towards a Holistic Framework for the Analysis of Information Dynamics in Human Networks</td>
<td>National Science Foundation</td>
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<td>Emrah Akyol</td>
<td>Model Explainability vs. Performance Trade-off in Socio-AI Systems</td>
<td>Sony Corporation</td>
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<td>Jian Li</td>
<td>CRII: CNS: NeTS: Adaptive Cache Dimensioning in Cloud CDNs: Foundations and Practice</td>
<td>National Science Foundation</td>
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<td>Collaborative Research: CNS Core: Medium: Learning-Augmented Caching Management for Content Delivery: Bounds and Algorithms</td>
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<td>Pritam Das</td>
<td>CAREER: MBTR Converter Based Solid State Transformers (SST): A Novel Approach to High-Performance Power Supplies</td>
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<td>High-Power Long-Life Micro-sized Microbial Solar Cells To Power Untended WSNs</td>
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<td>Seokheun Choi</td>
<td>COVID: Development of Multiarray Biosensors and Comparative Analysis with Mass Spectrometry for Wastewater Detection of SARS-CoV-2</td>
<td>New Jersey Institute of Technology</td>
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<td>Rapid, High-Throughput, and Real-time Assessment of Antibiotic Effectiveness Against Pathogenic Biofilms</td>
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<td>Wireless Compressed Sensed Neurophysiology: Reliable Interface, Robust Algorithm and Scalable Hardware</td>
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<td>Plug-n-Play Micro-Bio-Photovoltaic Panels</td>
<td>US Navy Office of Naval Research</td>
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<td>Google LLC</td>
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**Total $ Credited** | **$5,371,865**
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<td>Olga Petrova VentureWell Student Grant: KLAW Industries-Recycled Glass Pozzolan</td>
<td>VentureWell</td>
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<td>Per Stromhaug VentureWell Student Grant: KLAW Industries-Recycled Glass Pozzolan</td>
<td>VentureWell</td>
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<td>020 Geography</td>
<td>Chengbin Deng Measuring Urban Vitality Across the US: Dimension, Transition, and Resilience</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$284,054</td>
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<td>Chengbin Deng HEGS: Urban Thermal Dynamics, Urban Landscape Transitions and Social Processes</td>
<td>National Science Foundation</td>
<td>100%</td>
<td>$345,987</td>
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<td>Laura Pangallozzi Modeling the Susceptibility of Catskill Waterbodies to Invasive Plants and Animals - Hanny Mendoza &amp; Michael Jersey</td>
<td>Cary Institute of Ecosystem Studies</td>
<td>100%</td>
<td>$15,000</td>
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<td>020 Geological Sci &amp; Environmental Studies</td>
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<td>Alex Nikulin</td>
<td>IGE: Translational Research in Ecology and Environmental Science (TREES)</td>
<td>National Science Foundation</td>
<td>25%</td>
<td>$123,847</td>
<td>8/1/2021</td>
<td>7/31/2024</td>
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<td>Timothy de Smet</td>
<td>IGE: Translational Research in Ecology and Environmental Science (TREES)</td>
<td>National Science Foundation</td>
<td>25%</td>
<td>$123,847</td>
<td>8/1/2021</td>
<td>7/31/2024</td>
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<td>Timothy de Smet</td>
<td>Layers of risk: using system dynamics modeling to integrate geospatial, ecological, and human behavioral factors affecting tick-borne disease transmission in built environments</td>
<td>National Science Foundation</td>
<td>25%</td>
<td>$552,766</td>
<td>6/1/2021</td>
<td>5/31/2025</td>
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<td>George Homsy</td>
<td>Community Vitality in the Catskills</td>
<td>Cary Institute of Ecosystem Studies</td>
<td>100%</td>
<td>$14,999</td>
<td>6/1/2021</td>
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<td>Utkarsh Dang</td>
<td>Validating biomarker and outcome correlations and signatures of baseline severity in steroid-na?ve DMD patients</td>
<td>Foundation to Eradicate Duchenne</td>
<td>100%</td>
<td>$39,447</td>
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<td>Utkarsh Dang</td>
<td>Study of Long-Term Treatment of Vamorolone on Prevention of Cardiac Disease in D</td>
<td>Department of Defense (CDMRP)</td>
<td>25%</td>
<td>$335,590</td>
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<td>Bradley Skopyk</td>
<td>Living History of COVID-19: an enhanced global pandemic dashboard of public health, politics, economy, culture</td>
<td>American Council of Learned Societies</td>
<td>50%</td>
<td>$75,000</td>
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**Total # Credited** 0.75  
**Total $ Credited** $800,459  

**Total # Credited** 1.00  
**Total $ Credited** $14,999  

**Total # Credited** 1.25  
**Total $ Credited** $375,037  

**020 Health Outcomes and Administrative Sciences**

**020 History**
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<td>Heather Parks</td>
<td>2020-2021 Conservation &amp; Preservation Program Grant</td>
<td>NYS Education Department</td>
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| 020 Mathematical Sciences |                                                                 |                                      |                  |            |                      |                    |
| Cary Malkiewich | FRG: Collaborative Research: Trace methods and applications for cut-and-paste K-theory | National Science Foundation | 100%          | $126,321   | 7/1/2021             | 6/30/2024          |
| Guifang Fu | CAREER: Data Science at the Interface of Morphology and Genome Data | National Science Foundation | 100%          | $458,046   | 7/1/2021             | 6/30/2026          |
| Mei-Hsiu Chen | R21: Evaluating the Impact of Medication Storage on Pediatric Poisonings | National Institutes of Health | 30%          | $130,296   | 7/1/2021             | 6/30/2023          |
| Michael Dobbins | Analogs of Grassmannians and homeomorphism groups of surfaces | National Science Foundation | 100%          | $150,798   | 7/1/2021             | 6/30/2024          |
| Sanjeena Dang | R01: Role of Angiopoietin in in vitro Islet Development | National Institutes of Health | 5%            | $78,500    | 7/1/2021             | 6/30/2025          |
| Xingye Qiao | III: Small: Computational modeling of baseline brain function | National Science Foundation | 35%          | $174,999   | 9/1/2021             | 8/31/2024          |

<p>| 020 Mechanical Engineering |                                                                 |                                      |                  |            |                      |                    |
| Bahgat Sammakia | Autonomous Detector Modules for Custom Wearable Brain PET | Upstate Medical University Foundation | 25%          | $112,620   | 7/1/2021             | 6/30/2024          |
| Bahgat Sammakia | Liquid to Air Data Center Cooling Lab Development | NVIDIA Corporation | 50%          | $25,000    | 10/1/2020            | 12/31/2020         |
| Bahgat Sammakia | Cornerstone Workforce Development Phase 2 (Sub-in Purdue) | Purdue University | 34%          | $141,100   | 11/1/2021            | 10/31/2023         |</p>
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<tr>
<td>Bahgat Sammakia</td>
<td>Thin-Film Thermal Characterizations for AMAT</td>
<td>Applied Materials</td>
<td>20%</td>
<td>$3,000</td>
<td>10/1/2020</td>
<td>1/31/2021</td>
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<td>Bahgat Sammakia</td>
<td>USPAE - Cornerstone Lead-free Solder Proposal (Sub-in Purdue)</td>
<td>Purdue University</td>
<td>34%</td>
<td>$743,324</td>
<td>9/1/2020</td>
<td>8/31/2025</td>
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<td>Guangwen Zhou</td>
<td>In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys</td>
<td>US Department of Energy</td>
<td>100%</td>
<td>$450,000</td>
<td>5/15/2021</td>
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<tr>
<td>Guangwen Zhou</td>
<td>PNNL Subcontract: Materials Synthesis and Simulations Across Scales (MS3), Richland, WA, USA (2020-2021)</td>
<td>Pacific Northwest National Laboratory</td>
<td>100%</td>
<td>$40,000</td>
<td>10/1/2020</td>
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<td>Junghyun Cho</td>
<td>SBIR Phase I: Networked Innovative Anaerobic Digester Systems for Improved Management and Operational Success on Small and Mid-Sized Farms</td>
<td>TBD</td>
<td>100%</td>
<td>$25,001</td>
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<td>Junghyun Cho</td>
<td>PDRD - Conformal Coating Tin Whiskers (Year 3)</td>
<td>Honeywell Federal Manufacturing &amp; Technologies LLC</td>
<td>100%</td>
<td>$85,001</td>
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<td>Scott Schiffres</td>
<td>Cornerstone Workforce Development Phase 2 (Sub-in Purdue)</td>
<td>Purdue University</td>
<td>33%</td>
<td>$136,950</td>
<td>11/1/2021</td>
<td>10/31/2023</td>
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<td>Scott Schiffres</td>
<td>COVID: Screening of Spunbond-Meltdown-Spunbond Polymers for Filtration AMD 1</td>
<td>Cardinal Health 200 Limited Liability Company</td>
<td>100%</td>
<td>$30,000</td>
<td>7/1/2020</td>
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<td>Scott Schiffres</td>
<td>USPAE - Cornerstone Lead-free Solder Proposal (Sub-in Purdue)</td>
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<td>33%</td>
<td>$721,462</td>
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<td>Scott Schiffres</td>
<td>Selective Laser Melting - Testing of New Polymer Powder</td>
<td>Lockheed Martin</td>
<td>100%</td>
<td>$15,000</td>
<td>10/1/2020</td>
<td>9/30/2021</td>
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<td>Scott Schiffres</td>
<td>Autonomous Detector Modules for Custom Wearable Brain PET</td>
<td>Upstate Medical University Foundation</td>
<td>25%</td>
<td>$112,620</td>
<td>7/1/2021</td>
<td>6/30/2024</td>
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<td>Scott Schiffres</td>
<td>SRC Undergraduate Research Program (Matt Heitner)</td>
<td>SRC Incorporated</td>
<td>100%</td>
<td>$2,600</td>
<td>11/1/2020</td>
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<td>Scott Schiffres</td>
<td>Thin-Film Thermal Characterizations for AMAT</td>
<td>Applied Materials</td>
<td>80%</td>
<td>$12,000</td>
<td>10/1/2020</td>
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<td>Seungbae Park</td>
<td>Cornerstone - Defense Electronics Consortium/ Lead-Free Solders</td>
<td>US Army Contracting Command</td>
<td>100%</td>
<td>$5,959,881</td>
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<td>Purdue University</td>
<td>33%</td>
<td>$136,950</td>
<td>11/1/2021</td>
<td>10/31/2023</td>
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<td>Shahrzad Towfighian</td>
<td>R01: Self-Powered Load Sensors for Total Knee Replacement Health Monitoring</td>
<td>National Institutes of Health</td>
<td>100%</td>
<td>$2,347,137</td>
<td>4/1/2021</td>
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<td>Shahrzad Towfighian</td>
<td>Soft, ElectroNic Skin-Innervated Robotic Worm for Rapid Maintenance of Strategic Assets (Sensiworm)</td>
<td>Flex Tech Alliance</td>
<td>50%</td>
<td>$450,000</td>
<td>1/1/2021</td>
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<td>Srikanth Rangarajan</td>
<td>Autonomous Detector Modules for Custom Wearable Brain PET</td>
<td>Upstate Medical University Foundation</td>
<td>25%</td>
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<td>7/1/2021</td>
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<td>Xudong Liang</td>
<td>Programming High-power Density Soft Material Systems with Mechanical Structures</td>
<td>Robert and Mary Haythornthwaite Foundation</td>
<td>100%</td>
<td>$19,960</td>
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**Total # Credited** | 15.75 |
**Total $ Credited** | $11,925,903 |

**020 Music**

| Sarah Gerk | A Sound Study of Earlier America: Reoriented Approaches to Music in the United States during the Long Nineteenth Century | National Endowment for the Humanities | 100% | $50,000 | 10/1/2021 | 9/30/2022 |

**Total # Credited** | 1.00 |
**Total $ Credited** | $50,000 |

**020 Pharmaceutical Sciences**

<p>| Eric Hoffman | Study of Long-Term Treatment of Vamorolone on Prevention of Cardiac Disease in D (CDMRP) | Department of Defense (CDMRP) | 75%   | $1,006,769 | 7/1/2021 | 6/30/2024 |
| Kanneboyina Nagaraju | Targeting the innate immune system to block acute inflammatory and chronic immune responses to transgene and AAV vector in DMD | Parent Project for Muscular Dystrophy Research Inc | 100%  | $350,000   | 1/4/2021 | 1/3/2023  |</p>
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<tr>
<td>Kanneboyina Nagaraju</td>
<td>R21: Urine biomarkers in juvenile Dermatomyositis</td>
<td>National Institutes of Health</td>
<td>50%</td>
<td>$215,875</td>
<td>7/1/2021</td>
<td>6/30/2023</td>
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<tr>
<td>Kanneboyina Nagaraju</td>
<td>Delineating host cell response from impact of viral replication using a liposomal SARS-CoV-2 mimic'</td>
<td>National Institute of Allergy &amp; Infectious Disease</td>
<td>50%</td>
<td>$215,875</td>
<td>7/1/2021</td>
<td>6/30/2023</td>
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<td>Katie Edwards</td>
<td>Effects of Dietary Thiaminase on Two Strains of Lake Trout</td>
<td>Great Lakes Fishery Commission</td>
<td>100%</td>
<td>$6,000</td>
<td>4/1/2021</td>
<td>3/31/2022</td>
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<tr>
<td>Katie Edwards</td>
<td>Delineating host cell response from impact of viral replication using a liposomal SARS-CoV-2 mimic'</td>
<td>National Institute of Allergy &amp; Infectious Disease</td>
<td>50%</td>
<td>$215,875</td>
<td>7/1/2021</td>
<td>6/30/2023</td>
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<tr>
<td>L. Nathan Tumey</td>
<td>R01: Resubmission: Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications</td>
<td>National Institutes of Health</td>
<td>50%</td>
<td>$964,150</td>
<td>8/1/2021</td>
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<td>L. Nathan Tumey</td>
<td>R03: Resubmission: &quot;Molecular whack-a-mole&quot;: Targeting Transmembrane-TNF? or the Delivery of Anti-Inflammatory Drugs</td>
<td>National Institutes of Health</td>
<td>100%</td>
<td>$157,000</td>
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<td>L. Nathan Tumey</td>
<td>UG3/UH3: Chemokine- and Bioconjugation-Based Optimization of IPSE, a Parasite Protein, as a Non-Addictive Analgesic</td>
<td>National Institutes of Health</td>
<td>100%</td>
<td>$803,730</td>
<td>10/1/2021</td>
<td>9/30/2026</td>
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<td>L. Nathan Tumey</td>
<td>R03: Exploration of Thailanstatin ADCs for the Treatment of B-cell Lymphomas</td>
<td>National Cancer Institute</td>
<td>100%</td>
<td>$157,000</td>
<td>7/1/2021</td>
<td>6/30/2023</td>
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<tr>
<td>L. Nathan Tumey</td>
<td>R01: KRAS promoter G-quadruplex targeting with indoloquinolones and related compounds: synthesis, screening, and validation</td>
<td>National Cancer Institute</td>
<td>40%</td>
<td>$618,880</td>
<td>7/1/2021</td>
<td>6/30/2025</td>
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<tr>
<td>Melissa Morales</td>
<td>R21: Urine biomarkers in juvenile Dermatomyositis</td>
<td>National Institutes of Health</td>
<td>50%</td>
<td>$215,875</td>
<td>7/1/2021</td>
<td>6/30/2023</td>
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<td>Melissa Morales</td>
<td>NIAMS K01: Investigating the Role of Type I Interferons on Muscle Weakness in Autoimmune Myositis</td>
<td>National Institutes of Health</td>
<td>100%</td>
<td>$668,601</td>
<td>7/1/2021</td>
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<td>Mohammad Ali</td>
<td>AACP: The Role of Intracellular MMP-2 in Cancer Progression</td>
<td>American Association of Colleges of Pharmacy</td>
<td>100%</td>
<td>$10,000</td>
<td>3/1/2021</td>
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<tr>
<td>Tracy Brooks</td>
<td>R01: KRAS promoter G-quadruplex targeting with indoloquinolones and related compounds: synthesis, screening, and validation</td>
<td>National Cancer Institute</td>
<td>60%</td>
<td>$928,320</td>
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<tr>
<td>Tracy Brooks</td>
<td>R01 Resubmission: Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications</td>
<td>National Institutes of Health</td>
<td>25%</td>
<td>$482,075</td>
<td>8/1/2021</td>
<td>7/31/2026</td>
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<td>William Eggleston</td>
<td>R21: Evaluating the Impact of Medication Storage on Pediatric Poisonings</td>
<td>National Institutes of Health</td>
<td>70%</td>
<td>$304,024</td>
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<td>Yetrib Hathout</td>
<td>Serum Biomarker Initiative for Becker’s Muscular Dystrophy</td>
<td>Foundation to Eradicate Duchenne</td>
<td>100%</td>
<td>$25,377</td>
<td>1/1/2021</td>
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**Total # Credited** | 13.20  
**Total $ Credited** | $7,345,426

### 020 Pharmacy Practice

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<td>Amanda Mogul</td>
<td>Evaluating the Impact of an at Home Medication Disposal System on Safe Medication Disposal</td>
<td>American Association of Colleges of Pharmacy</td>
<td>100%</td>
<td>$3,000</td>
<td>1/1/2021</td>
<td>12/31/2021</td>
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<tr>
<td>Wesley Kufel</td>
<td>Impact of vancomycin plus Ceftaroline Combination Therapy for Persistent Methicillin-Resistant Staphylococcus Aureus Bacteremia</td>
<td>American College of Clinical Pharmacy</td>
<td>100%</td>
<td>$3,000</td>
<td>1/4/2021</td>
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**Total # Credited** | 2.00  
**Total $ Credited** | $6,000

### 020 Philosophy

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<td>Nicole Hassoun</td>
<td>Global health justice and equitable vaccine allocation</td>
<td>World Health Organization</td>
<td>100%</td>
<td>$25,000</td>
<td>11/21/2020</td>
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**Total # Credited** | 1.50  
**Total $ Credited** | $35,000

### 020 Physics Applied Physics & Astronomy

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<td>Bonggu Shim</td>
<td>Fundamental Study of Waveguide Fabrication via Femtosecond Laser Micromachining</td>
<td>National Science Foundation</td>
<td>50%</td>
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<td>Elena Margine</td>
<td>Frameworks: An Interoperable Software Ecosystem for Many-Body Electronic Structure Calculations</td>
<td>University of Texas at Austin</td>
<td>100%</td>
<td>$838,500</td>
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<td>Jeffrey Mativetsky</td>
<td>COVID: Wearable Real-time Health Monitoring for Early Detection and Mitigation of Viral Respiratory Disease</td>
<td>Department of Defense (CDMRP)</td>
<td>80%</td>
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<td>Jeffrey Mativetsky</td>
<td>R21: Wearable Artificial Intelligence-Enabled Respiratory Health Monitoring</td>
<td>National Institutes of Health</td>
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<td>Louis Piper</td>
<td>REU Supplement: Rational Design of Oxide Cathode Coatings for High Performance Li-ion Batteries</td>
<td>National Science Foundation</td>
<td>33%</td>
<td>$1,980</td>
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<td>Manuel Smeu</td>
<td>REU Supplement: Rational Design of Oxide Cathode Coatings for High Performance Li-ion Batteries</td>
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<td>33%</td>
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<td>National Science Foundation</td>
<td>50%</td>
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<td>2/1/2021</td>
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<td>Manuel Smeu</td>
<td>CAREER: CAS: Ab Initio Modeling of Electrode-Electrolyte Interfaces in Multivalent Ion Batteries</td>
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<td>Pegor Aynajian</td>
<td>Probing emergent electronic states in geometrically frustrated pyrochlore iridates</td>
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Total # Credited: 6.46
Total $ Credited: $3,875,648

020 Physics, Applied Physics & Astronomy

| Jeffrey Mativetsky | Wearable Artificial Intelligence-Enabled Respiratory Health Monitoring | National Science Foundation | 50% | $183,985 | 4/1/2021 | 3/31/2024 |

Total # Credited: 0.50
Total $ Credited: $183,985

020 Political Science
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<td>Olga Shvetsova</td>
<td>Living History of COVID-19: an enhanced global pandemic dashboard of public health, politics, economy, culture</td>
<td>American Council of Learned Societies</td>
<td>50%</td>
<td>$75,000</td>
<td>7/1/2021</td>
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**Total # Credited** | 0.50  
**Total $ Credited** | $75,000

### 020 Psychology

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<td>Anushree Karkhanis</td>
<td>Mechanisms of rostrocaudal differences in accumbal kappa opioid receptor effects on ethanol drinking</td>
<td>National Institute for Alcohol Abuse &amp; Alcoholism</td>
<td>100%</td>
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<td>Anushree Karkhanis</td>
<td>Unraveling Neurobiology of Stress Related Addiction</td>
<td>Peter F McManus Charitable Trust</td>
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<td>Center for Systems Neurogenetics of Addiction: Project 1: Impulsivity</td>
<td>Jackson Laboratory</td>
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<td>$287,076</td>
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<td>Impact of Prenatal Methadone on BLA Dopamine Function and Synaptic Plasticity</td>
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<td>25%</td>
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<td>Brandon Gibb</td>
<td>Attentional Biases for Affective Cues as a Mechanism of Risk in Children of Depressed Mothers</td>
<td>Not Applicable</td>
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<td>Christopher Bishop</td>
<td>Assessment of the Disease Modifying Effects of Novel Multifunctional Drugs in a Rotenone Model of Parkinson’s Disease</td>
<td>Wayne State University</td>
<td>100%</td>
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<td>Maladaptive 5-HT Raphe-Corticolimbic Plasticity Underlying the Development of Non-Motor Behavioral Deficits in Parkinson’s Disease</td>
<td>Department of Defense (CDMRP)</td>
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<td>Interrogating Maladaptive Serotonin Raphe-Striatal Plasticity in L-DOPA-Induced Dyskinesia</td>
<td>National Inst of Neurological Disorders &amp; Stroke</td>
<td>100%</td>
<td>$3,826,349</td>
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<td>David Werner</td>
<td>F31: Fellowship Support for Trevor Towner: Role of Neural Activity and Perineuronal Nets in Adolescent Intermittent Ethanol-Induced Social Anxiety</td>
<td>National Institute for Alcohol Abuse &amp; Alcoholism</td>
<td>100%</td>
<td>$61,440</td>
<td>7/1/2021</td>
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<td>Role of neural activity and perineuronal nets in adolescent intermittent ethanol-induced social anxiety</td>
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<td>Elena Varlinskaia</td>
<td>Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF</td>
<td>National Institute for Alcohol Abuse &amp; Alcoholism</td>
<td>5%</td>
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<td>Erin Jant</td>
<td>Collaborative Research: Tracing the roots of gender gap in STEM</td>
<td>National Science Foundation</td>
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<td>Florence Varodayan</td>
<td>Neuroimmune Regulation of Cognitive Function Across Lifespan</td>
<td>Searle Scholars Program</td>
<td>100%</td>
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<td>James Jentsch</td>
<td>Center for Systems Neurogenetics of Addiction: Project 1: Impulsivity</td>
<td>Jackson Laboratory</td>
<td>75%</td>
<td>$861,229</td>
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<td>Marvin Diaz</td>
<td>Impact of Prenatal Methadone on BLA Dopamine Function and Synaptic Plasticity</td>
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<td>National Institute for Alcohol Abuse &amp; Alcoholism</td>
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<td>Prenatal Alcohol, Amygdala-Cortical Dysfunction, and Social Impairment</td>
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<td>Nicholas Gaspelin</td>
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<td>Mechanisms of Neural Coding of Food in the Brainstem</td>
<td>National Inst on Deafness &amp; Other Comm Disorders</td>
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<td>Peter Gerhardstein</td>
<td>Development of Contour Detection in Children Exposed to Differing Levels of Digital Media</td>
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<td>$543,344</td>
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<td>Raymond Romanczyk</td>
<td>COVID: Hannah Morton: Bullying of Autistic Youth During the COVID-19 Pandemic</td>
<td>Autism Science Foundation</td>
<td>100%</td>
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<td>Sung-Joo Lim</td>
<td>Neural Systems for Attentional Control in Speech Processing</td>
<td>American Speech Language Hearing Foundation</td>
<td>100%</td>
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<td>Impact of Prenatal Methadone on BLA Dopamine Function and Synaptic Plasticity</td>
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<td>Role of Microglial Fractalkine Signaling in Altered Dopaminergic Wiring in FASD</td>
<td>Ursinus College</td>
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**Total # Credited** 20.00  
**Total $ Credited** **$19,886,515**

### 020 Public Archaeology Facility

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<td>Laurie Miroff</td>
<td>Langdon Substation Contingency Parcel Project, Phase 2 Site Examination of Locus 3 of the Terrace Drive Site, Town of Conklin</td>
<td>LaBella Associates</td>
<td>100%</td>
<td>$10,887</td>
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<td>265 Industrial Park Drive Project Phase 1 Archaeological Survey</td>
<td>Delta Engineers</td>
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<td>Switzkill Road Solar Project, Berne, NY</td>
<td>C&amp;S Companies</td>
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<td>Orange Solar Project, Architectural Services, Town of Orange, Schuyler County, NY</td>
<td>Entero Energy</td>
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<td>Schuyler Business Park Project (20PR03960), Phase 1A Cultural Resources Assessment</td>
<td>Herkimer County Industrial Development Agency</td>
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<td>Arbutus Park Extension Project, Phase 2 Site Examination of the Arbutus Precontact Site, Town of Pompey, Onondaga County</td>
<td>Calocerinos Engineering PLLC</td>
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<td>Hanover Engineering Associates</td>
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<td>Lamont Engineers</td>
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<td>Troy Top Soil Halfmoon Mine Expansion Project, Phase 1A/1B Archaeological Survey Town of Halfmoon, Saratoga County, New York</td>
<td>Troy Top Soil Company</td>
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<td>Artifact Mapping Proposal Woodstock Bindy Bazaar Project, Bethel, Sullivan County, NY</td>
<td>Bethel Woods Center for the Arts</td>
<td>100%</td>
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<td>KAPL-Niskayuna, Phase 1B Archaeological Survey for new Lower Level Hillside Road Project, TOA #420, Item 1.3</td>
<td>Sage Engineering Associates</td>
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<td>Knolls East Gate Entrance (TOA 190, Item 5) Project, Phase 1B Archaeological Survey</td>
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<td>Arbutus Park Extension Project, Phase 1 Archaeological Survey, Town of Pompey, Onondaga County, New York</td>
<td>Calocerinos Engineering PLLC</td>
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<td>Plains - PA Bureau of Abandoned Mine Reclamation Building Project, Phase 1 Archaeological Survey (STPs and GPR), Town of Plains, Luzerne County, PA</td>
<td>JCJ Holdings II</td>
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**Total # Credited**: 30
**Total $ Credited**: $347,154

### 020 Research VP

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<td>Dae-Young Jung</td>
<td>USPAE - Cornerstone Lead-free Solder Proposal (Sub-in Purdue)</td>
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<td>James Turner</td>
<td>Autonomous Detector Modules for Custom Wearable Brain PET</td>
<td>Upstate Medical University Foundation</td>
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<td>Soft, ElectroNic Skin-Innervated Robotic Worm for Rapid Maintenance of Strategic Assets (Sensiworm)</td>
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<td>General Electric Global Research</td>
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<td>Flexible Multi-Channel Heterogeneous Integrated Low Form Factor Wireless Multi-Channel Surface Electromyography (sEMG) Device</td>
<td>University of California at Los Angeles</td>
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**Total** # Credited: **7.08**

**Total $ Credited: $4,855,082**

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**020 School Of Management**

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<td>Examining Psychologically Safe Cancer Care Systems to Improve Quality and Safety of Cancer Care for Rural and Low-Income Populations: A Longitudinal Mixed-Methods Approach</td>
<td>Agency for Healthcare Research and Quality</td>
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<td>Rory Eckardt</td>
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<td>Meta-cognition-driven Surrogate Model Generation and Composition for Microelectronic Systems</td>
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<td>Nonlinear Dynamics and Machine Learning for Accurate Detection of Early-stage Atrial Fibrillation</td>
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<td>SONY: Advancing Pathological Intelligence using 3D Optical Coherence TomographyImages: Adversarial Learning in Tissue Segmentation</td>
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<td>Collaborative Research: Establishing a Junior-to-Senior Level Hybrid Additive Manufacturing Course and Laboratory for Improving Undergraduate STEM Education</td>
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<td>Hiroki Sayama</td>
<td>Examining Psychologically Safe Cancer Care Systems to Improve Quality and Safety of Cancer Care for Rural and Low-Income Populations: A Longitudinal Mixed-Methods Approach</td>
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<td>IGE: Enhancing Students’ Deep Diversity of Knowledge and Skills via Exploration of the Orthogonal Subject-Skill Curricular Matrix</td>
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<td>Collaborative Research: Deriving Dynamical Model Equations from Temporal Network Data Using a Graph Rewriting Framework</td>
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<td>Krishnaswami Srihari</td>
<td>Business Intelligence and Performance Improvement R&amp;D</td>
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<td>50%</td>
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<td>Continuous Performance Improvement and System Modeling Support for TidalHealth</td>
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<td>Krishnaswami Srihari</td>
<td>Research in Assembly and Automation in a Surface Mount Technology Company</td>
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<tr>
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<td>Krishnaswami Srihari</td>
<td>Improving Quality, Safety, and Patient Flow and Outpatient Medication Management</td>
<td>Memorial Sloan Kettering Cancer Center</td>
<td>50%</td>
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<td>MOD 1: Corning Master AMD 1: Metallization and R2R Processing of Thin Flexible Inorganic Substrates</td>
<td>Corning Incorporated</td>
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<td>Examining Psychologically Safe Cancer Care Systems to Improve Quality and Safety of Cancer Care for Rural and Low-Income Populations: A Longitudinal Mixed-Methods Approach</td>
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<td>Sangwon Yoon</td>
<td>SONY: Advancing Pathological Intelligence using 3D Optical Coherence Tomography Images: Adversarial Learning in Tissue Segmentation</td>
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<td>Sangwon Yoon</td>
<td>In-Time Safety Assurance Systems in Advanced Air Mobility Using Fast Data-Driven Models and Feedback Control Architecture</td>
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<td>Soongeol Kwon</td>
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<td>Sunghoon Chung</td>
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<td>Susan Shuxia Lu</td>
<td>NSF CBET: Design of Nanocomposite-Structured Sensor Arrays for Breath Detection of Lung Cancer</td>
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020 Watson School Deans Office

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Friday, January 08, 2021
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<th>Title</th>
<th>Sponsor Name</th>
<th>% Credited to PI</th>
<th>$ Credited</th>
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<th>Requested End Date</th>
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Total # Credited: 14.00
Total $ Credited: $562,333

Total Proposals Submitted: 249.00
Total Amount Requested: $108,966,768