



Proposals Submitted & Awarded FY 2020-2021

The *Grants Flyer* includes:

- * External Proposals Submitted
- * External Proposals Awarded
- * Internal Research Funding Awards (Fall and Spring)
- * President's Fellowship for Summer Research Awards
- * Research as High Impact Practice (rHIP) Awards

The Office of Research and Sponsored Programs
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Telephone: (570) 941-6353
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Grants Flyer

EXTERNAL PROPOSALS SUBMITTED

***Dina Angeloni**, CHEW, *2020 Walk for Well Being Program*, Moses Taylor Foundation, \$1,000.

***Mary Kay Aston**, Financial Aid, *The James P. Sweeney S. J. Family Outreach Fund*, MetLife Foundation, \$10,000.

***Mary Kay Aston**, Financial Aid, *The James P. Sweeney S.J. Family Outreach Fund*, Robert H. Spitz Foundation, \$10,000.

Dr. Benjamin Bishop, Computing Science and **Dr. Robert Spalletta**, Physics/EE, *Adapting subterranean robotics to anthracite mine fires*, Appalachian Regional Commission, \$413,456.

***Dr. Douglas Boyle**, Accounting, *Business High School Scholars Program*, Procter & Gamble, \$12,000.

***Dr. Douglas Boyle**, Accounting, *Business High School Scholars Program*, Willary Foundation, \$15,000.

***William Burke**, Financial Aid, *The Donald B. & Dorothy L. Stabler Scholarship Endowment*, The Donald B. & Dorothy L. Stabler Foundation, \$500,000.

Dr. Arthur Catino, Chemistry and **Alexis Curtis** (Undergraduate Student), *Development of a Three-Component Domino Addition/Cyclization Reaction for the Synthesis of Triarylmethanes (TRAMs)*, Pennsylvania Academy of Science, \$750.

Dr. Arthur Catino, Chemistry and **Kaila Steenback** (Undergraduate Student), *Synthesis of Tetraarylmethanes via the Truce-Smiles Rearrangement*, Pennsylvania Academy of Science, \$750.

***Julie Cohen**, Community Relations, and **Helen Wolf**, Campus Ministries, *The University of Scranton Refugee Solidarity Initiative*, Christian Brothers Foundation \$4,000.

Julie Cohen, Community Relations, *Scranton's Story, Our Nation's Story*, National Endowment for Humanities, \$152,791.

***Julie Cohen**, Community Relations, *Steam Projects for School and Community Groups*, Walmart, \$2,500.

Dr. Bryan Crable, Biology, *Freshwater microbial communities associated with natural debris and the Aquatic Resource for High-Frequency Underwater Research (ARTHUR) at Lake Lacawac Biological Field Station and Environmental Education Center*, Lacawac Sanctuary, \$2,735.

*Submitted by Meg Hambrose, Director, Corporate and Foundation Relations

Dr. Bryan Crable, Biology, *Physiological heterogeneity of plastic-associated microbial communities in freshwater Lake Lacawac*, National Science Foundation, \$689,727.

Dr. Bryan Crable, Biology, *Preliminary investigation of the physiological and functional heterogeneity of microbial communities associated with plastic and natural debris in freshwater Lake Lacawac*, Charles E. Kaufmann Foundation, \$117,961.

Dr. Michael Fennie, Dr. Arthur Catino and Dr. Nicholas Sizemore, Chemistry, *MRI: Acquisition of a 400 MHz Nuclear Magnetic Resonance (NMR) Spectrometer to Advance Research and Student Research Training at the University of Scranton*, National Science Foundation, \$431,751.

Dr. Nathaniel Frissell, Physics/EE, Dr. Phillip Erickson (MIT), and Dr. Travis Atkison (University of Alabama), *Enabling Space Weather Research with Global Scale Amateur Radio Datasets*, NASA, \$481,260.

Dr. Nathaniel Frissell, Physics/EE, *CAREER: Amateur Radio as a Tool for Studying Traveling Ionospheric Disturbances and Atmosphere-Ionosphere Coupling*, National Science Foundation, \$616,054.

Dr. Nathaniel Frissell, Physics/EE and Dr. Emma Bland (The University Centre in Svalbard) *New Space Weather Applications for High Frequency Radars*, Norwegian Research Council under a subcontract to The University Centre in Svalbard, \$23,079.

Dr. Ahmed Gomaa, Operations and Information Management, and **Dr. Satya Chattopadhyay**, Management, Marketing & Entrepreneurship, *Open Startup Morocco*, Department of State, \$251,106.

Dr. Christopher Hauser, Philosophy, *Summer PWOL Course Redesign*, Andrew W. Mellon Foundation (through the University of Notre Dame), \$3,999.

Dr. Michael Jenkins, Sociology/CJ & Criminology, and **Dr. Sinchul Back**, Sociology/CJ & Criminology, *GenCyber – Royals Cyber Investigations Camp*, GenCyber, \$101,805.

Dr. Michael Jenkins, Sociology/CJ & Criminology, and **Dr. Sinchul Back**, Sociology/CJ & Criminology, *GenCyber – Royals Cyber-Intelligence Camp*, GenCyber, \$60,605.

Dr. Christie Karpiak, Psychology, **Dr. Stacey Muir**, Mathematics, **Dr. Declan Mulhall**, Physics/EE, and **Dr. Janice Voltzow**, Biology, *New to IUSE: EHR DCL: Comparison of brief targeted interventions for engagement and persistence in introductory STEM course sequences*, National Science Foundation, \$210,068.

***Dr. Andrea Mantione**, Leahy Community Health Center, *University of Success*, Charles A. Frueauff Foundation, \$15,000.

***Dr. Andrea Mantione**, Leahy Community Health Center, *University of Success*, Overlook Estate Foundation, \$4,000.

Dr. Darlene Miller-Lanning, Hope Horn Gallery, *2021-2022 PPA Program Stream*, Pennsylvania Council on the Arts, \$2,000.

Dr. Cyrus Olsen, Theology/RS, *Anti-Racism Training for Faculty and Administration*, Lilly Fellows Program, \$3,000.

Dr. Ann Pang-White, Asian Studies, and **Dr. Yamile Silva**, World Languages and Cultures, *Chinese Language and Culture Program (Collaboration of UofS Asian Studies Program, Department of World Languages and Cultures, CAS, and Provost Office)*, Taiwan Ministry of Education, \$16,230.

***Dr. Debra Pellegrino**, Panuska College of Professional Studies Dean's Office, and **Dr. Hope Baylow**, Health and Human Performance, *The Speech and Hearing Sciences Lab*, Moses Taylor Foundation, \$20,000.

***Dr. Debra Pellegrino**, Panuska College of Professional Studies Dean's Office, *Supporting and Expanding Professional Education and Training to Enhance ASD Services*, AllOne Foundation, \$248,032

Dr. Charles Pinches, Theology/RS, *"Encouraging Students' Vocational Reflection, beginning in the First-Year Seminar and extending beyond through Mentoring Relationships"*, NetVue, \$47,635

Dr. Alex Rudniy, Computing Science, **Dr. Maria Elena Oliveri** (University of Nebraska), **Dr. Jennifer Randall** (University of Massachusetts) and **Dr. David Slomp** (University of Lethbridge) *Improving the Workplace English Communication Skills through Antiracist, Linguistically Affirming Next-Generation Formative Assessment Systems*, US Department of Education, \$160,846.

Dr. Yamile Silva, World Languages and Cultures, *Summer Stipends*, National Endowment for Humanities, \$6,000.

***Edward Steinmetz**, Treasurer's Office, *Univ of Scranton COVID19 Recovery Project*, Wells Fargo Foundation, \$25,000.

Dr. Katherine Stumpo, Chemistry, **Dr. Timothy Foley**, Chemistry, **Dr. Spencer Galen**, Chemistry, **Dr. Patrick Orr**, Psychology, and **Dr. Robert Smith**, Biology, *MRI: Acquisition of a MALDI-TOF Mass Spectrometer for Research and Teaching at a PUI*, National Science Foundation, \$423,374.

Dr. Katherine Stumpo, Chemistry, *Optimization of mass spectrometry imaging of low-molecular weight molecules in tissues using gold nanoparticles*, National Institutes of Health, \$292,090.

*Submitted by Meg Hambrose, Director, Corporate and Foundation Relations

Dr. Katherine Stumpo, Chemistry, *The Utility of AuNPs for Mass Spectrometry Imaging*, American Society for Mass Spectrometry, \$20,000.

***Pat Vaccaro**, Center for Service & Social Justice, *We Care Wednesday Program*, Robert H. Spitz Foundation, \$5,000.

***Pat Vaccaro**, Center for Service & Social Justice, *We Care Wednesday Program*, Scranton Area Foundation, \$8,943.

***Dr. Janice Voltzow**, Biology, *Excellence in STEM*, PPL Foundation, \$23,839.

***Dr. Janice Voltzow**, Biology, *Excellence in STEM*, Sanofi, \$20,000.

Dr. Margarete Zalon, Dr. Mary Jane DiMattio, and Dr. Marian Farrell, Nursing, *Creating Connection: Increasing Diversity in NEPA's Nursing Workforce*, Health Resources and Services Administration, \$2,141,377.

Total Amount Over: \$7,594,763

EXTERNAL PROPOSALS AWARDED

***Mary Kay Aston**, Financial Aid, *The James P. Sweeney S. J. Family Outreach Fund*, MetLife Foundation, \$10,000.

***William Burke**, Financial Aid, *The Donald B. & Dorothy L. Stabler Scholarship Endowment*, The Donald B. & Dorothy L. Stabler Foundation, \$200,000.

Dr. Arthur Catino, Chemistry and **Alexis Curtis** (Undergraduate Student), *Development of a Three-Component Domino Addition/Cyclization Reaction for the Synthesis of Triarylmethanes (TRAMs)*, Pennsylvania Academy of Science, \$750.

Dr. Arthur Catino, Chemistry and **Kaila Steenback** (Undergraduate Student), *Synthesis of Tetraarylmethanes via the Truce-Smiles Rearrangement*, Pennsylvania Academy of Science, \$750.

Julie Cohen, Community Relations, *Scranton's Story, Our Nation's Story*, National Endowment for Humanities, \$152,791.

***Julie Cohen**, Community Relations, *Steam Projects for School and Community Groups*, Walmart, \$500.

Dr. Bryan Crable, Biology, *Freshwater microbial communities associated with natural debris and the Aquatic Resource for High-Frequency Underwater Research (ARTHUR) at Lake Lacawac Biological Field Station and Environmental Education Center*, Lacawac Sanctuary, \$2,735.

Dr. Bryan Crable, Biology, *Physiological heterogeneity of plastic-associated microbial communities in freshwater Lake Lacawac*, National Science Foundation, \$198,265.

Dr. Michael Fennie, **Dr. Arthur Catino** and **Dr. Nicholas Sizemore**, Chemistry, *MRI: Acquisition of a 400 MHz Nuclear Magnetic Resonance (NMR) Spectrometer to Advance Research and Student Research Training at the University of Scranton*, National Science Foundation, \$362,773.

Dr. Nathaniel Frissell, Physics/EE, Dr. Phillip Erickson (MIT), and Dr. Travis Atkison (University of Alabama), *Enabling Space Weather Research with Global Scale Amateur Radio Datasets*, NASA, \$481,260.

Dr. Nathaniel Frissell, Physics/EE, *CAREER: Amateur Radio as a Tool for Studying Traveling Ionospheric Disturbances and Atmosphere-Ionosphere Coupling*, National Science Foundation, \$616,054.

Dr. Christopher Hauser, Philosophy, *Summer PWOL Course Redesign*, Andrew W. Mellon Foundation (through the University of Notre Dame), \$3,999.

*Submitted by Meg Hambrose, Director, Corporate and Foundation Relations

***Dr. Andrea Mantione**, Leahy Community Health Center, *University of Success*, Charles A. Frueauff Foundation, \$15,000.

***Dr. Andrea Mantione**, Leahy Community Health Center, *University of Success*, Overlook Estate Foundation, \$4,000.

Dr. Darlene Miller-Lanning, Hope Horn Gallery, *2021-2022 PPA Program Stream*, Pennsylvania Council on the Arts, \$2,000.

Dr. Cyrus Olsen, Theology/RS, *Anti-Racism Training for Faculty and Administration*, Lilly Fellows Program, \$3,000.

Dr. Ann Pang-White, Asian Studies, and **Dr. Yamile Silva**, World Languages and Cultures, *Chinese Language and Culture Program (Collaboration of UofS Asian Studies Program, Department of World Languages and Cultures, CAS, and Provost Office)*, Taiwan Ministry of Education, \$16,230.

***Dr. Debra Pellegrino**, Panuska College of Professional Studies Dean's Office, and **Dr. Hope Baylow**, Health and Human Performance, *The Speech and Hearing Sciences Lab*, Moses Taylor Foundation, \$20,000.

Dr. Charles Pinches, Theology/RS, *“Encouraging Students’ Vocational Reflection, beginning in the First-Year Seminar and extending beyond through Mentoring Relationships”*, NetVue, \$47,635

***Edward Steinmetz**, Treasurer's Office, *Univ of Scranton COVID19 Recovery Project*, Wells Fargo Foundation, \$10,000.

***Pat Vaccaro**, Center for Service & Social Justice, *We Care Wednesday Program*, Robert H. Spitz Foundation, \$2,500.

***Pat Vaccaro**, Center for Service & Social Justice, *We Care Wednesday Program*, Scranton Area Foundation, \$2,000.

***Dr. Janice Voltzow**, Biology, *Excellence in STEM*, Sanofi, \$20,000.

Total Amount: \$2,172,242

FALL 2020 INTERNAL RESEARCH FUNDING AWARDS

Dr. Timothy Foley, Chemistry, *Redox Targeting of Glyceraldehyde-3-Phosphate Dehydrogenase in Cancer Cells*, \$2,000.

Dr. Joshua Reynolds, Psychology, *Probing the Accuracy of Profiling: Fire or Smoke?*, \$2,000.

Dr. Brian Snee, Communication, *The Lincoln Blitz: Hollywood, WWII & the America First Movement*, \$1,836.40.

Dr. Katherine Stumpo, Chemistry, *Mass Spectrometry Research: A study in several parts*, \$2,000.

Dr. Lori Walton, Dr. Renee Hakim, and Dr. Jennifer Schwartz, Physical Therapy, *Validation of the Complex Trauma Scale (CTI), International Physical Activity Questionnaire (IPAQ), SF-12, Cohen Hoberman's Inventory of Physical Symptoms (CHIPS) and the Perceived Stress Scale (PSS) in Swahili and Nepali Language for Use in Refugee Populations*, \$3,000.

Total Amount: \$10,836.40

SPRING 2021 INTERNAL RESEARCH FUNDING AWARDS

Dr. Ashley Driver, Biology, *Establishing a CRISPR pipeline to characterize the role of cholesterol biosynthesis enzymes in mammalian cells*, \$2,000.

Dr. Vincent Farallo, Biology, *Physiological and Behavioral Ecology of Plethodontid Salamanders*, \$2,000.

Dr. Spencer Gallen, Biology, *A deep-sequencing approach to understanding wildlife disease prevalence and diversity in the eastern United States*, \$2,000.

Dr. Ozgur Isil, Dr. Rose Sebastianelli, and Dr. Nabil Tamimi, Operations and Analytics, *Drivers of Firms' Climate Change Responsiveness: Assessing Regulatory and Physical Risks*, \$3,000.

Dr. Michael Kelley, Counseling and Human Services, *Modeling Autism Interventions Using Amazon's Mechanical Turk*, \$1,800.

Dr. Gary Kwiecinski, Biology, *Effects of Prescribed Burns on Bat Activity at Lackawanna State Park*, \$2,000.

Dr. Joseph Pellegrino, Health and Human Performance, *Efficacy of a health and wellness app in college students*, \$2,000.

Dr. Meghan Rich, Sociology/CJ & Criminology, *Arts and Culture Neighborhood Theming in New Orleans: Post-Pandemic*, \$2,000.

Dr. Anne Royer, Biology, *Developing markers for tracking sex-specific mating and dispersal patterns in NEPA rattlesnakes*, \$1,956.

Dr. Yamile Silva, World Languages and Cultures, *A Critical Edition of Dominican Writer Abigail Mejita's Transatlantic Journalism*, \$2,000.

Dr. Jong-Hyun Son, Biology, *The olfactory-mediated anxiety-like behavior by habenular nuclei in adult zebrafish*, \$2,000.

Prof. Patricia Wisniewski, Occupational Therapy, *A Project-based Learning Approach to Community-based Learning: Action Research to Explore Transformative Change in 1st Year Occupational Therapy Students Awareness about Contextual Barriers, Occupational Justice, and Advocating for Community Health and Wellness*, \$606.

Dr. Patricia Wright and Dr. Marian Farrell, Nursing, *Parental bereavement in older age*, \$3,000.

Total Amount: \$26,362

PRESIDENT'S FELLOWSHIP FOR SUMMER RESEARCH AWARDS 2020

Danielle Cook, *Parent/Child Play*, \$5,000.

Faculty Mentor: **Dr. Emily Hopkins**, Psychology

Charles Dominick, *The effects of a high-fat diet on acetylcholine esterase during the central nervous system (CNS) development*, \$5,000.

Faculty Mentor: **Dr. Jong-Hyun Son**, Biology

Giovanni Gunawan, *Biochemical and Behavioral Effects of Prenatal Acetaminophen Exposure in C57Bl/6 Mice*, \$5,000.

Faculty Mentor: **Dr. Patrick Orr**, Psychology

Margaret McGrath, *Studying the Effects of Ambient Light at Night (ALAN) on the Natural Rhythmicity of Glucocorticoids*, \$5,000.

Faculty Mentor: **Dr. Christopher Howey**, Biology

Mahad Muhammad, *The Effects of Tylenol on Cortical and Trabecular Bone Quantity and Morphology in Adolescent Mole Mice*, \$5,000.

Faculty Mentor: **Dr. Maria Squire**, Biology

Katia Ramirez, *Bilingual Edition of Abigail Mejia's work*, \$5,000.

Faculty Mentor: **Dr. Yamile Silva**, World Languages and Cultures

Jake Selingo, *Synthesis of Chiral Tetraarylmethanes*, \$5,000.

Faculty Mentor: **Dr. Arthur Catino**, Chemistry

Richard Terranova, *The effects of social isolation on axonal pruning in the mushroom bodies of the ant "Pheidole dentata"*, \$5,000.

Faculty Mentor: **Dr. Marc Seid**, Biology

Cara Webster, *Army ant raiding as a learning tool for bat foraging behavior*, \$5,000.

Faculty Mentor: **Dr. Marc Seid**, Biology

Sarah White, *Testing maintenance of divergent "M. ringens" life histories with morphological differences, resource allocation, and inbreeding depression*, \$5,000.

Faculty Mentor: **Dr. Anne Royer**, Biology

Total Amount: \$50,000

RESEARCH AS HIGH IMPACT PRACTICE (rHIP) AWARDS 2020-2021

Tommy Baran, *Investigations into nootropic-modulated learning and memory in *Procambarus clarkii**, \$490

Faculty Mentor: **Dr. Robert Waldeck**, Biology

Thomas Elias, John Nelson, James Lanning, and Shaaf Sarwar, *Measuring and Modeling Photon Diffusion in Wax*, \$500

Faculty Mentor: **Dr. Declan Mulhall**, Physics/EE

Amanda Gereza, *Axon midline pathfinding after exposure to fluoxetine in a developing vertebrate brain*, \$500

Faculty Mentor: **Dr. Jong-Hyun Son**, Biology

Mia Gianello, *Application of Mass Spectrometry Imaging on New Organs of Interest*, \$500

Faculty Mentor: **Dr. Katherine Stumpo**, Chemistry

Devin Haas, *Dynamics of a Quantum Bouncer on an Inclined with Arbitrary Angle*, \$500

Faculty Mentor: **Dr. Juan Serna**, Physics/EE

Isaiah Harris, *Analysis of Neurotransmitters and Lipids Using Mass Spectrometry*, \$500

Faculty Mentor: **Dr. Katherine Stumpo**, Chemistry

Isaiah Livelsberger, *International Disorder: The Transition from Consensus to Unilateralism and Its Implications on an Increasingly Interdependent World*, \$420

Faculty Mentor: **Dr. Daniel Sweeney, S.J.**, Political Science

Laura Elizabeth Miller, *Observation of Bacteriophage Transfer in Ants Through Trophallaxis*, \$500

Faculty Mentor: **Dr. Marc Seid**, Biology

Joshua Rudolph, *Film, Philosophy and The Frankfurt School*, \$250

Faculty Mentor: **Dr. Andrew LaZella**, Philosophy

Madison Schmerder, *The Effect of Dopamine on the Regeneration of Spinal Cord Motor Neurons in a Developing Zebrafish Brain*, \$500

Faculty Mentor: **Dr. Jong-Hyun Son**, Biology

Jacob Shomali, *Effects of Fluoxetine Exposure on Neurobiology and Behavior in the ant *Camponotus floridanus**, \$500

Faculty Mentor: **Dr. Marc Seid**, Biology

Ashley Spencer, *Antimicrobial Effects of Local Pennsylvania Honey on Several Species of Opportunistic Pathogens*, \$500

Faculty Mentor: **Dr. Bryan Crable**, Biology

Gregory Venuto, *The effects of caffeine on motivation to build ant colonies*, \$500

Faculty Mentor: **Dr. Marc Seid**, Biology

Erin Welby, *The Effects of Cholinergic Nervous System on the Development of Spontaneous Alternation Behavior (SAB) in Zebrafish larvae*, \$500

Faculty Mentor: **Dr. Jong-Hyun Son**, Biology

Total Amount: \$6,660

Office of Research and Sponsored Programs

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