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
O’Hara Hall 4th Floor
Telephone: (570) 941-6353
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**EXTERNAL PROPOSALS SUBMITTED**


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. 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.


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. 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 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-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.

*Submitted by Meg Hambrose, Director, Corporate and Foundation Relations*
*Dr. Andrea Mantione*, Leahy Community Health Center, *University of Success*, Overlook Estate Foundation, $4,000.


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


*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 Educations, $160,846.

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


**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.


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


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


*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


**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.


**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. 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. 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*, Overlook Estate Foundation, $4,000.


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

*Submitted by Meg Hambrose, Director, Corporate and Foundation Relations*
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 nootripic-modulated learning and memory in Procambarus clarkii*, $490  
Faculty Mentor: **Dr. Robert Waldeck**, Biology

Faculty Mentor: **Dr. Declan Mulhall**, Physicss/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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