



Proposals Submitted & Awarded

FY 2021-2022

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 Support and Sponsored Programs O'Hara Hall 4th Floor Telephone: (570) 941-6353

Fax: (570) 941-6229

EXTERNAL PROPOSALS SUBMITTED

Total Proposals Submitted \$6,391,438 (55 proposals)

College of Arts & Sciences Total Proposals Submitted \$4,117,150 (30 proposals)

- *Drs. Hossein Banitabaei, Amir Zamanian, Physics/EE, The University of Scranton Mechanical Engineering Student Innovation Center Expansion, P&G Fund, \$20,000
- Dr. Sean Brennan, History, America and the Soviet World 1945 to the Present, Fulbright
- **Drs. Ashley Driver, Jong-Hyun Son, Marc Seid,** Biology, MRI: Acquiring an Olympus FV3000RS Confocal Microscope System to Advance Research and Training at the University of Scranton, National Science Fund, \$361,920
- **Dr. Gerald Dumancas,** Chemistry, *Recruiting Preparing, and Retaining STEM Educators to Serve in High-Need Schools,* National Science Foundation, \$1,158,584
- **Dr. Vincent Farallo,** Biology, *RaMP: SPARCnet*, National Science Foundation, \$187,500
- *Dr. Nathaniel Frissell, Physics/EE, Amateur Radio Station and Replacement Radio Telescope for the New W3USR University of Scranton Amateur Radio Club, Amateur Radio Digital Communications (ARDC), \$167,327
- *Dr. Nathaniel Frissell, Physics/EE, Antenna System for the New W3USR University of Scranton Amateur Radio Club, Amateur Radio Digital Communications (ARDC), \$45,000
- **Dr. Nathaniel Frissell,** Physics/EE and Dr. Christian Zorman (Case Western Reserve University) *Collaborative Research: CEDAR Measuring Daily Ionospheric Variability and the 2023 & 2024 Solar Eclipse Doppler Shift Receivers*, National Science Foundation, \$448,448
- **Dr. Nathaniel Frissell,** Physics/EE, *HamSCI Workshop 2022*, National Science Foundation, \$49,995
- **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, \$24,484
- **Dr. Christopher Gillet,** History, *Catholicism and Revolution in the British World, 1630-1673*, National Endowment for the Humanities, \$6,000

- **Drs. Jason Graham, Joseph Klobusicky,** Mathematics, and **Kelly Banyas,** Library, *The Development of OER Course Materials for Math 204 and DS 201*, Pennsylvania State Department of Education, \$3,000
- *Dr. Jean Harris, Political Science, and Frani Mancuso, Conferences & Event Services, PNC 2021 Fall Sponsorships, PNC Foundation, \$2,800
- *Dr. Christopher Haw, Theology-Religious Studies, *The University of Scranton Prison Education Program*, The Charles B. Degenstein Foundation, \$5,000
- *Dr. Christopher Haw, Theology-Religious Studies, *The University of Scranton Prison Education Program at Dallas SCI*, JFF, \$124,229
- *Dr. Christopher Haw, Theology-Religious Studies, *The University of Scranton Prison Education Program*, The Raskob Foundation, \$15,000
- *Drs. JoyAnna Hopper, Jean Harris, Political Science, Annual Conference on Ethics and Excellence in Public Service at The University of Scranton, American Political Science Association, \$10,000
- **Dr. Christopher Howey,** Biology, D. Ned Fletcher, and Dr. Jess Stratford (Wilkes University), *Fire effects on reptile, amphibian, small mammal, and songbird communities,* Pennsylvania Department of Conservation & Natural Resources, \$32,388
- **Dr. Bibi Rafeiza Khan**, Biology, *BRC-BIO: Characterization of a group of small synthetic molecules isolated in a chemical genetic screen that alters Arabidopis root system architecture (RSA) and root development*, National Science Foundation, \$466,464
- **Dr. Joseph Klobusicky,** Math, *Phase transitions in two-dimensional foams*, NASA Pennsylvania Space Grant Consortium, \$10,347
- *Dr. Michelle Maldonado, Provost Office and Dr. Dave Dzurec, CAS Dean's Office, The University of Scranton's Diversity in the Humanities Initiative, SSRC/NEH, \$99,230
- *Dr. Cyrus Olsen, Theology-Religious Studies, Drs. Ian Corbin, Amar Dhand (Harvard Medical School), *Buffering, Porosity, and Brain Health in Uganda, and America*, Templeton World Charity Foundation, \$499,597
- **Dr. Ann Pang-White**, Asian Studies, **Drs. Virginia Picchietti, Habib Zanzana**, World Languages and Cultures, *Chinese Language-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. Anne Royer, Biology, Mimulus Ringens, Philadelphia Botanical Club, \$2,000

- **Dr. Alex Rudniy,** Computing Sciences, *Socially Integrated Workplace Training for Community-Based Health Care*, National Science Fund, \$165,054
- **Dr. Yamile Silva,** World Languages and Cultures, *Summer Stipends*, National Endowment for the Humanities, \$6,000
- *Dr. Janice Voltzow, Biology, Excellence in STEM Program, Sanofi, \$22,530
- *Dr. Janice Voltzow, Biology and Julie Cohen, Community Relations, STEM Field trip to Lackawac Sanctuary, Overlook Estate Foundation, \$3,275
- **Dr. Hank Willenbrink,** English & Theater, *Restoring Funding for Technical Director Position for The University of Scranton Theatre Program*, National Endowment for the Arts, \$149,748
- *Dr. Hank Willenbrink, English & Theater, and Dr. Adam Pratt, History, *The University of Scranton's 1902 Anthracite Coal Strike Commission Project*, Willary Foundation, \$15,000

Kania School of Management Total Proposals Submitted \$50,000 (1 proposal)

Dr. Ahmed Gomaa, Operations & Analytics, *Blockchain-Enabled Patient Centric Consent to Improve Access to Care*, National Science Foundation, \$50,000

Library Total Proposals Submitted \$133 (1 proposal)

Slyvia Orner, Kelly Banyas, Sheli Pratt-McHugh, Library, Dr. Teresa Grettano, English, Dr. William Miller, Health Admin & Human Resources, Dr. Darlene Miller, Art Gallery, PA Goal Library Licensed Materials Grant, Pennsylvania State Department of Education, \$133

Panuska College of Professional Studies Total Proposals Submitted \$936,875 (9 proposals)

- **Dr. Michel Bermudez,** Occupational Therapy, *Educational Technology for Inclusive Learning in Uganda*, Fulbright
- *Dr. Victoria Castellanos, PCPS Dean's Office, Support for ASD Education & Programming at The University of Scranton, AllOne Foundation, \$297,949

- *Dr. Rebecca Dalgin, Counseling & Human Services, *The University of Scranton Jobs Club for Adults with ASD*, PPL Foundation, \$16,551
- *Dr. Rebecca Dalgin, Counseling & Human Services, *The University of Scranton Jobs Club for Adults with ASD*, Scranton Area Foundation, \$15,000
- **Dr. Mary Jane DiMattio,** Nursing, Drs. Danielle Olds, Emily Cramer (University of Kansas Medical Center), *Defining the Scope of Intention to Leave and Turnover among Baccalaureate Nurses in Hospitals: Implications for Patient Safety*, National Institutes of Health R03, \$97,440
- **Dr. Mary Jane DiMattio,** Nursing, **Joe Klobusicky,** Math, *Defining the Scope of Intention to Leave and Turnover among Baccalaureate Nurses in Hospitals: Implications for Patient Safety*, National Institutes of Health R03, \$98,702
- **Drs. Joan Grossman, Debra Fetherman,** Health and Human Performance, *Short Duration Exercise and Anthropometric Changes in Obese, Post-Menopausal Women of a Lower Socioeconomic Status*, Academy of Nutrition and Dietetics, \$15,000
- **Drs. Michael Kelley, Vanessa Jenson,** Counseling, **Erin Dunleavy,** Autism Collaborative Center of Excellence, Ann Gillerlane (Goodwill Industries of NEPA), *Comprehensive Education and Training across Rural Settings: A Collaborative Model for Generating Community-based Independent Skills for Serving Vulnerable Populations, Spencer Foundation, \$371,233*
- *Drs. Lori Walton, Renee Hakim, Physical Therapy, The University of Scranton Leahy Physical Therapy Clinic Outreach Program for Refugee Women, AllOne Charities, \$25,000

Staff Total Proposals Submitted \$1,287,280 (14 proposals)

Stephanie Adamec, Center for Health Education & Wellness, *Reducing Underage Drinking and Dangerous Drinking Grant,* Pennsylvania Liquor Control Board, \$38,340

- *Mary Kay Aston, Financial Aid, *The Donald B. & Dorothy L. Stabler Scholarship Endowment*, The Donald B. & Dorothy L. Stabler Foundation, \$500,000
- *James Caffrey, Physical Plant, *The University of Scranton Multicultural Expansion Project*, PNC Foundation, \$200,000
- **Julie Cohen,** Community Relations, *Scranton's Story Our Nation's Story Oral Histories/Scranton Stories Project*, Lackawanna Heritage Valley, \$4,500
- *Julie Cohen, Community Relations, and Dr. Teresa Grettano, English, *The University of Scranton Multicultural Expansion Project*, Arthur Vining Davis Foundation, \$178,791

- *Elizabeth Garcia and Christine Black, Equity and Diversity, *University of Scranton Initiative* for the Success of Students of Color, McGowan Charitable Fund, \$50,000
- *David Kostiak and Donald Bergman, University Police, Practical De-escalation Strategies for Police Workshop, Scranton Area Foundation, \$3,400
- *Andrea Mantione, University of Success, University of Success, AT&T Foundation, \$10,000
- *Andrea Mantione, University of Success, University of Success, Charles A. Frueauff Foundation, \$15,000
- *Andrea Mantione, University of Success, University of Success, PPL Foundation, \$10,000
- **Dr. David Marx,** Provost Office, *University of Scranton Ronald E. McNair Postbaccalaureate Achievement Program*, Department of Education, \$261,249
- **Dr. Darlene Miller-Lanning,** Art Gallery, 2022-2023 PPA Program Stream, Pennsylvania Council on the Arts, \$3,000
- *Mark Murphy, Physical Plant, *The University of Scr Urban Tree Planting Project*, PA American Water, \$10,000
- *Patricia Vaccaro, Center for Service & Social Justice, *Mentoring Young Minds*, FSC Foundation, \$3,000

EXTERNAL PROPOSALS AWARDED

Total Proposals Awarded \$3,286,541 (29 awards)

College of Arts & Sciences Total Proposals Awarded \$2,389,668 (13 awards)

- **Dr. Gerald Dumancas,** Chemistry, **Dr. Jason Graham,** Math, **Dr. Jennifer Kaschak,** Education, *Recruiting Preparing, and Retaining STEM Educators to Serve in High-Need Schools,* National Science Foundation, \$1,158,584
- *Dr. Nathaniel Frissell, Physics/EE, Amateur Radio Station and Replacement Radio Telescope for the New W3USR University of Scranton Amateur Radio Club, Amateur Radio Digital Communications (ARDC), \$196,241
- **Dr. Nathaniel Frissell,** Physics/EE and Dr. Christian Zorman (Case Western Reserve University) *Collaborative Research: CEDAR Measuring Daily Ionospheric Variability and the 2023 & 2024 Solar Eclipse Doppler Shift Receivers*, National Science Foundation, \$399,211
- **Dr. Nathaniel Frissell,** Physics/EE, *HamSCI Workshop 2022*, National Science Foundation, \$49,995
- **Drs. Jason Graham, Joseph Klobusicky,** Mathematics, and **Kelly Banyas,** Library, *The Development of OER Course Materials for Math 204 and DS 201*, Pennsylvania State Department of Education, \$3,000
- *Dr. Jean Harris, Political Science, and Frani Mancuso, Conferences & Event Services, PNC 2021 Fall Sponsorships, PNC Foundation, \$2,800
- *Dr. Christopher Haw, Theology-Religious Studies, *The University of Scranton Prison Education Program,* The Raskob Foundation, \$15,000
- **Dr. Joseph Klobusicky,** Math, *Phase transitions in two-dimensional foams*, NASA Pennsylvania Space Grant Consortium, \$10,347
- *Dr. Cyrus Olsen, Theology-Religious Studies, Drs. Ian Corbin, Amar Dhand (Harvard Medical School), *Buffering, Porosity, and Brain Health in Uganda, and America*, Templeton World Charity Foundation, \$499,597
- **Dr. Ann Pang-White**, Asian Studies, **Drs. Virginia Picchietti, Dr. Habib Zanzana,** World Languages and Cultures, *Chinese Language-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. Janice Voltzow, Biology, Excellence in STEM Program, Sanofi, \$20,000
- *Dr. Janice Voltzow, Biology and Julie Cohen, Community Relations, STEM Field trip to Lackawac Sanctuary, Overlook Estate Foundation, \$3,663
- *Dr. Hank Willenbrink, English & Theater, and Dr. Adam Pratt, History, *The University of Scranton's 1902 Anthracite Coal Strike Commission Project*, Willary Foundation, \$15,000

Kania School of Management Total Proposals Awarded \$50,000 (1 award)

Dr. Ahmed Gomaa, Operations & Analytics, *Blockchain-Enabled Patient Centric Consent to Improve Access to Care,* National Science Foundation, \$50,000

Library Total Proposals Awarded \$133 (1 award)

Slyvia Orner, Kelly Banyas, Sheli Pratt-McHugh, Library, Dr. Teresa Grettano, English, Dr. William Miller, Health Admin & Human Resources, Dr. Darlene Miller, Art Gallery, PA Goal Library Licensed Materials Grant, Pennsylvania State Department of Education, \$133

Panuska College of Professional Studies Total Proposals Awarded \$354,500 (5 awards)

- **Dr. Michel Bermudez,** Occupational Therapy, *Educational Technology for Inclusive Learning in Uganda*, Fulbright
- *Dr. Victoria Castellanos, PCPS Dean's Office, Support for ASD Education & Programming at The University of Scranton, AllOne Foundation, \$297,949
- *Dr. Rebecca Dalgin, Counseling & Human Services, *The University of Scranton Jobs Club for Adults with ASD*, PPL Foundation, \$16,551
- *Dr. Rebecca Dalgin, Counseling & Human Services, *The University of Scranton Jobs Club for Adults with ASD*, Scranton Area Foundation, \$15,000
- *Drs. Lori Walton, Renee Hakim, Physical Therapy, The University of Scranton Leahy Physical Therapy Clinic Outreach Program for Refugee Women, AllOne Charities, \$25,000

StaffTotal Proposals Awarded \$492,240 (9 awards)

Stephanie Adamec, Center for Health Education & Wellness, *Reducing Underage Drinking and Dangerous Drinking Grant*, Pennsylvania Liquor Control Board, \$38,340

- *Mary Kay Aston, Financial Aid, *The Donald B. & Dorothy L. Stabler Scholarship Endowment*, The Donald B. & Dorothy L. Stabler Foundation, \$340,000
- *James Caffrey, Physical Plant, *The University of Scranton Multicultural Expansion Project*, PNC Foundation, \$75,000
- **Julie Cohen,** Community Relations, Scranton's Story Our Nation's Story Oral Histories/Scranton Stories Project, Lackawanna Heritage Valley, \$2,500
- *David Kostiak and Donald Bergman, University Police, Practical De-escalation Strategies for Police Workshop, Scranton Area Foundation, \$3,400
- *Andrea Mantione, University of Success, University of Success, AT&T Foundation, \$10,000
- *Andrea Mantione, University of Success, *University of Success*, Charles A. Frueauff Foundation, \$15,000
- *Andrea Mantione, University of Success, University of Success, PPL Foundation, \$5,000
- **Dr. Darlene Miller-Lanning,** Art Gallery, 2022-2023 PPA Program Stream, Pennsylvania Council on the Arts, \$3,000

FALL 2021 INTERNAL RESEARCH FUNDING AWARDS

Drs. Bryan Crable, Timothy Cadigan, S.J., Biology, *Development of a 16S rRNA Gene Sequencing Pipeline the University of Scranton,* \$3,000.

Dr. Timothy Foley, Chemistry, *Characterization of a disulfide-bonded form of trisephosphate isomerase from commercially-available rabbit brains subject to oxidative stress ex vivo*, \$2,000.

Dr. David Ingber, Biology, Effects of Corn Herbivory-Induced plant Volatiles (HIVs) on Fall Armyworm (Sodoptera frugiperda Smith) oviposition choice, \$2,000.

Dr. Cyrus Olsen, Theology/Religious Studies, *Digitizing Traditional Health Records from Kampala, Uganda: Database Management for the Traditional Herbal Medical Clinics of Fr. Anatoli Wassam,* \$2,000.

Drs. Robert Waldeck, Marc Seid, Biology, *Determination of dopamine's role in plasticity of the acoustic startle response in goldfish*, \$3,000.

Total Amount: \$12,000

SPRING 2022 INTERNAL RESEARCH FUNDING AWARDS

Drs. Jinghan Cai, Iordanis Petsas, Economics, Finance & Int'l Business, *Work, Leisure, and the Monday Blue: Does Culture Matter?* \$3,000.

Dr. Madeline Gangnes, English, Young Folks and Victorian Illustrated Periodicals, \$2,000.

Dr. Jong-Hyun Son, Biology, Effects of hypoxia-induced Reactive Oxygen Species (ROS) on the developmental DA neurons in larval zebrafish, \$2,000.

Drs. Joe Kraus, Hank Willenbrink, English, A Scranton Anthology, \$3,000.

Dr. Gary Kwiecinski, Biology, *Histological Analyses of Reproductive Tracts from the Jamaican Fruit-eating Bat*, \$1,957.90.

Total Amount: \$11,957.90

PRESIDENT'S FELLOWSHIP FOR SUMMER RESEARCH AWARDS 2021

Emily Allen, *The Effect of Age on Cellular Respiration Rates in Camponotus floridanus*, \$5,000. Faculty Mentor: **Dr. Marc Seid**, Biology

Liza Bruno, Studying the Effects of Ambient Light at Night (ALAN) on Testosterone Production and Aggressive Behavior, \$5,000.

Faculty Mentor: Dr. Christopher Howey, Biology

Peter Burke, A Just Recognition: Acknowledging and Chronicling the History of the Indigenous Peoples of the Wyoming Valley, \$5,000.

Faculty Mentor: **Dr. Adam Pratt**, History

Koebe S. Diaz, *Empathy and Authority at the Southern Border: A Scenario Study*, \$5,000.

Faculty Mentor: **Dr. Jessica Nolan**, Psychology

Nicolette George, *Investigating the Influence of Ambient Light at Night on Bone Density*, \$5,000.

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

Isaiah Livelsberger, An Evaluation of UN-led State-Building Initiatives in Post-Civil War Societies, \$5,000.

Faculty Mentor: Dr. Michael Allison, Political Science

Laura Miller, The Effects of Bacteriophage Transfer in Campanotus Pennsylvanicus Through Trophallaxis, \$5,000.

Faculty Mentor: Dr. Marc Seid, Biology

Shane Power, Effects of Environmental and Parental Quality on House Wren Reproductive Success, \$5,000.

Faculty Mentor: Dr. Cara Krieg, Biology

Catherine Renton, Soil Microhabitat Differences Between Two Microendemic Salamanders, \$5,000.

Faculty Mentor: Dr. Vincent Farallo, Biology

Fatima Torres, Effects of Employment on Recidivism, \$5,000. Faculty Mentor: **Dr. Ismail Onat,** Sociology/CJ and Criminology

Total Amount: \$50,000

RESEARCH AS HIGH IMPACT PRACTICE (rHIP) AWARDS 2021-2022

Emily Allen, *The Effect of Age on Cellular Respiration Rates in Camponotus floridanus*, \$500 Faculty Mentor: **Dr. Marc Seid**, Biology

Gabrielle Bingener, Hypoxia-induced Developmental Toxicity by Oxidative Stress in Zebrafish Larvae, \$508

Faculty Mentor: Dr. Jong-Hyun Son, Biology

Lauren Cleary, The Effects of Rhythmic Priming on Word Learning, \$300

Faculty Mentor: **Dr. Jill Warker**, Psychology

Conor Dougherty, The Prevalence of Electronic Cigarettes (e-cigarettes), \$548

Faculty Mentor: Dr. Marc Seid, Biology

Evan Hromisin and Aidan Szabo, Constructing Telescopes to Photograph a Galaxy, \$389

Faculty Mentor: Dr. Declan Mulhall, Physics/EE

Zohal Gul Mohammad and **Danyelle Tech**, Constructing Telescopes to Photograph a Galaxy,

\$496

Faculty Mentor: Dr. Declan Mulhall, Physics/EE

Ellyn Prusinowski, Experiences and Narraties of Injured Women Runners, \$500

Faculty Mentor: **Dr. Billie Tadros**, English

Michael Quinnan, Morphological Patterning in the Marine Alphaproteobacterium Hirschia

baltica, \$565

Faculty Mentor: **Dr. Amelia Randich**, Biology

Katia Ramirez, A Racialized Right to the City? Evaluating Black Spatial Mobility in Post-

Emancipation Sãn Paulo, Brazil, \$416

Faculty Mentor: Dr. Aiala Levy, History

Olivia Sander, The Telencephalon's Influence on Startle Response Plasticity in Goldfish, \$457

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

Jacob Shomali, The Effect of Serotonergic Manipulation on Ant Feeding Behavior, \$520

Faculty Mentor: Dr. Marc Seid, Biology

Nathaneil Smith, What Brain Regions and Neurotransmitters are Integral in Ant Navigation, \$800

Faculty Mentor: Dr. Marc Seid, Biology

Katharine Sollecito, The Effects of Nicotine and Cannabidiol on the Appetite of Camponotus floridanus, \$500

Faculty Mentor: Dr. Marc Seid, Biology

Dominick Spera, Studying the Biomedical Events that Detour Healthy Brain Aging and Drive Progression of Neurodegeneration, \$500

Faculty Mentor: **Dr. Timothy Foley**, Chemistry

Jack Sylvester, N-acetylcysteine Protection against Developmental Hypoxic Damage in Zebrafish, \$566

Faculty Mentor: Dr. Jong-Hyun Son, Biology

Isabella Travaglia, The Effect of Diazepam on Aggression Nestmate Recognition in Camponotus floridanus Ants, \$499

Faculty Mentor: Dr. Marc Seid, Biology

Elise Westhafer, Regeneration of the Optic Tectum after Injury in Juvenile Axolotls, \$450 Faculty Mentor: **Dr. Robert Waldeck**, Biology

Sofia Zingone, Characterizing Differentiation Protocols for Neuro2a Cells, \$482

Faculty Mentor: Dr. Ashley Driver, Biology

Total Amount: \$8,996

Office of Research Support and Sponsored Programs

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