

FUNDED FACULTY RESEARCH
OCTOBER 1, 2025 – MARCH 31, 2026

Biology

Miriam Ashley-Ross, *Intergovernmental Personnel Act (IPA) Assignment*, National Science Foundation (NSF), \$3,880.00

Sarah Esstman, *Rotavirus Genome Replication and Virion Assembly*, National Institutes of Health (NIH), \$219,952.00

Chemistry

Lindsay Comstock-Ferguson, *Mechanisms and biological functions of SPOUT methyltransferases*, The Ohio State University, \$23,361.00

Computer Science

Grey Ballard

- with Aditya Devarakonda, *Sparsitute: A Mathematical Institute for Sparse and Structured Problems in Science and Engineering*, U.S. Department of Energy (DOE), \$245,205.00
- *Tensor-based Streaming Algorithms for Scientific Data Compression*, DOE, \$180,000.00

Economics

Tin Leung, with Koleman Strumpf, *Dissecting Netflix's Self-Preferencing: Evidence from Viewer-Level Data*, NET Institute, \$2,000.00

Engineering

Olga Pierrakos, *IPA Assignee: Olga Pierrakos*, NSF, \$328,900.00

Kyana Young

- *Non..woven hybrid geotextiles for urban stormwater nutrient management*, Environmental Protection Agency (EPA) / University of South Alabama, \$126,079.00
- *Transforming Agricultural Waste By-products into Sustainable Stormwater Nutrient Management Solutions*, EPA / University of South Alabama, \$44,533.00

English

Jessica Richard, *Maria Edgeworth Letters Project*, National Endowment for the Humanities (NEH) / University of Tennessee, \$36,880.00

Environmental Program

Ovidiu Csillik

- *Biomass and structural changes in tropical forests from GEDI and airborne lidar observations*, NASA, \$175,790.19
- *Aboveground carbon stock changes in dynamic tropical forest*, NASA, \$199,604.00

Functional Materials

Cedric Schaack, **Chemistry**, *Conjugated Allene Polymers as Conformationally and Electronically Switchable Chiral Materials*, NSF, \$687,370.00

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Health & Exercise Science

Jason Fanning, *Physical Rehabilitation for Older Patients with Acute HFpEF - The REHAB-HFpEF Trial*, NIH / WFU Health Sciences, \$20,659.00

Megan Bennett-Jones, *Building Community-Informed Research Infrastructure to Address Substance Misuse and Pain Management in the Lumbee Tribe*, NIH / Lumbee Indian Tribe of NC, \$36,756.00

Jeffrey Katula, *Strategic Grant - U.S. POINTER Study*, Alzheimer's Association / Rush University Medical Center, \$53,029.00

Shannon Mihalko, with Peter Brubaker, *Supportive Tailored Exercise Program for Survivors of Breast Cancer (STEPS-BC)*, NIH / Virginia Commonwealth, \$73,179.00

Mathematics and Statistics

Abbey Bourdon, *CAREER: Exceptional Points on Modular Curves*, NSF, \$100,000.40

Molecular Signaling

Gloria Muday, **Biology**, *Understanding mechanisms for maintaining ROS homeostasis to protect plant reproduction from high temperature stress*, United States Department of Agriculture (USDA), \$649,996.00

Nanotech & Molecular Materials

David Carroll, Physics

- *Critical Path for Quoherent*, Quoherent, \$470,355
- *Phase II SBIR: AF 20 qubits phase II*, Air Force Office of Scientific Research - AFOSR / Quoherent, \$250,000.00

Physics

Freddie Salsbury, *Computational Biosciences Support*, NIH / WFU Health Sciences, \$15,756.00

Program for Leadership & Character

Kate Allman, *Developing a measure of change: A Planning Grant*, United States Army Research Office (ARO), \$139,370.00

Michael Lamb, *Meeting the Moment in Character Education: Building Communities of Impact Across Higher Education*, John Templeton Foundation, \$3,500,000.00

Psychology

Mason Garrison, *Quantifying the contributions of mitochondrial DNA to Alzheimer's Disease and related conditions of aging.*, NIH / Michigan State University, \$23,939.00

Eranda Jayawickreme, *Addressing Risks in Online Spaces with Character Development through Micro Interventions*, John Templeton Foundation / Regents of the University of California at Irvine, \$57,955.00

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Wayne Pratt, *Motivation in the Face of Loss: A Novel Operant Paradigm for Investigating*, Psi Chi, \$3,000.00

Sabin Center

Luis Fernandez, **Biology**, *Protecting People and Forests: Science-Based Strategies against Mercury and Illicit Gold Mining*, Gordon and Betty Moore Foundation, \$1,600,998.63

Miles Silman, **Biology**, *Protecting People and Forests: Science-Based Strategies against Mercury and Illicit Gold Mining*, Frederick S Upton Foundation, \$25,000.00

Statistical Sciences

Staci Hepler, *Spatio Temporal Methods project* NIH NIDA R01, NIH / WFU Health Sciences, \$93,732.56

Emily Huang, *Integrating lifecourse approaches, biologic and digital phenotypes in support of heart and lung disease epidemiologic research.*, NIH / Harvard University (President and Fellows of Harvard College), \$19,043.00

Sarah Lotspeich, *1/4 CTSA UM1 Program at Wake Forest / Asma Ahmed Pilot - Yr 2*, WFU Health Sciences, \$6,848.00

Translational Science Center

Dany Kim-Shapiro, **Physics**

- *Omics, mice, and men: Development of precision transfusion medicine*, NIH / University of Maryland, \$53,723.00
- *IMProving mobility After revascularization in peripheral artery disease: the IMPACT PAD Trial*, NIH / Northwestern University, \$49,296.00
- *BEET root juice to reverse functional impairment in PAD: The BEET PAD Trial*, NIH / Northwestern University, \$38,606.00
- *Response to Exercise and Nitric Oxide in PAD: the RESIST PAD Trial*, NIH / Northwestern University, \$39,703.00

Wake the Arts

Christina Soriano, **Theater & Dance**, *Establishing the optimal frequency of dance movement for neurocognitive and physical outcomes in people at risk of Alzheimer's disease*, NIH / WFU Health Sciences, \$119,579.00