Program for Undergraduate Research & Scholarship (PURS) Awardees

**PURS 2021-22**

David Gauthier (Biological Sciences)
Richard Hale (Ocean, Earth & Atmospheric Sciences)
Kyle Lambert (Chemistry & Biochemistry)
Yuzhong Shen (Computational Modeling and Simulation Engineering)
Priya Vashist (Communication & Theatre Arts)

**PURS 2020**

Sophie Clayton (Ocean, Earth & Atmospheric Sciences)
Ted Gournelos (Communication & Theatre Arts)
Annemarie Horn (Communication Disorders & Special Education)
Sandeep Kumar (Civil & Environmental Engineering)
Jian Wu (Computer Science)
Hong Yang (Computational Modeling & Simulation Engineering)

**PURS 2019**

Dan Barshis (Assistant Professor - Biological Sciences) Chasing Carbon: Symbiotic and Non-Symbiotic Carbon Demands in the Northern Star Coral

Allison Page (Assistant Professor - Communication & Theatre Arts): The Cultural Life of Policing

Silvina Pagola (Research Assistant Professor - Chemistry & Biochemistry): Toward Unraveling the Mechanisms of "Green" Mechanochemical Reactions

Sachin Shetty (Associate Professor - Modeling, Simulation, & Visualization Engineering): Detection of Rogue Mobile Devices Based on Radio Frequency Classification

Lisa Wallace (Associate Professor and J. Robert Stiffler Professor of Botany – Biological Sciences) - Manipulation of Seed Germination Conditions of an Orchid to Facilitate Common Garden Studies of Wild Populations
Zhanping Liu (Assistant Professor, Modeling Simulation, and Visualization Engineering): Explorative Volume Flow Visualization in Virtual Environments for Big Data Analysis

Nora Noffke (Associate Professor in Ocean, Earth & Atmospheric Sciences): Microplastics and microfibers in Modern Beach Deposits in Virginia and Northern North Carolina

Steven Pascal (Professor, Chemistry & Biochemistry): Par-4 Tumor Suppressor: Structural Changes That Trigger the Death of Cancer Cells

Matthew Schmidt (Associate Professor, Ocean, Earth, & Atmospheric Sciences): Atmospheric CO2 and the Relationship to Millennial-Scale Chargers in Atmospheric Circulation in the Eastern Equatorial Pacific

Sachin Shetty (Associate Professor, Modeling Simulation, and Visualization Engineering): Optimizing Jamming Attacks in Cyber Electronic Warfare Based on Real Time Situational Awareness

Daniel Barshis (Assistant Professor, Biological Sciences): Characterizing the Distribution and Local Adaptation Potential of the Northern Star Coral (Astrangia poculata) in Virginia.

David Courson (Research Assistant Professor, Chemistry & Biochemistry): Development and Characterization of CRISPR Derived Mammalian Cell Lines for Host-Pathogen Studies with Clostridium Dificile.

Hua Liu (Associate Professor, Political Science & Geography): Identifying Potential Areas with Human Zika Infections in the City of Los Angeles, California by Using High-Resolution Remote Sensing Imagery.

Chuanyi Tang (Assistant Professor, Department of Marketing): Toward a Value Co-Creation Framework in the Business-to-Business Context: Exploring Customer Interactions and Experiences with the Port of Virginia.

Andrew Wozniak (Research Assistant Professor, Chemistry & Biochemistry): Environmental Factors Determining Volatile and Semi-volatile Organic Matter Composition and Fluxes at Air-Water Interfaces.

Orlando Ayala (Assistant Professor, Engineering Technology): Revisiting the design of elbow configurations to reduce erosion based on the study of particle-fluid interaction dynamics.

Dipankar Ghosh (Assistant Professor, Mechanical and Aerospace Engineering): Dynamic deformation response of bio-inspired freeze-cast multilayered porous ceramics.

Erika Frydenlund (Senior Project Scientist, VMASC): Social justice & transportation equity.
Yaohang Li (Associate Professor, Computer Science): Detecting and classifying malware by novel biologically inspired approaches.

Balša Terzić (Assistant Professor, Physics): Improving the performance of the Compton scattering-based photon sources through an innovative laser frequency modulation scheme