

## Intersections: Undergraduate Research Presentation Award Winners Fall 2023 Intersections

### Arts and Humanities

1<sup>st</sup> Walter Wexler. *Waponahkik 1727: Persistence and Power Between Two Empires*. Faculty Mentor: John Bickers, Department of History.

2<sup>nd</sup> Julia Saks. *Should We Donate Our Bodies to Science? Understanding the Ethics of Body Donation and the Body Market*. Anthony Jack, Department of Philosophy.

### Engineering

1<sup>st</sup> Tied Leann Blanc, Colin Chenoweth, Aditi Mukkara, Sahil Patel and Mehram Saifudeen. *Shark Tank Assistant*. Faculty Mentor: Shuai Xu, Department of Computer and Data Sciences.

1<sup>st</sup> Tied Helio Dong, Sylvie Dyer, Prarthana Gajjala, Nivita Patri, Ana Perez Cespedes, and Kim Tran. *Quicode*. Faculty Mentor: Shuai Xu, Department of Computer and Data Sciences.

2<sup>nd</sup> Tied Marquis Globokar. *Tensile Strength of Jointed Microwires for Interfascicular Implantation into Peripheral Nerves*. Faculty Mentor: Dustin Tyler. Department of Biomedical Engineering.

2<sup>nd</sup> Tied Mau Koshida. *Integrated EMG Processing Module for Bidirectional Neuroprosthesis*. Faculty Mentor: Hamid Charkhkar. Department of Biomedical Engineering.

2<sup>nd</sup> Tied Benjamin Nelson, Ethan Heckman and Liam Crowley. *GPS Disciplined Quartz Crystal Oscillator*. Faculty Mentor: David Kazdan. Department of Electrical Engineering.

### Life Sciences

1<sup>st</sup> Saad Badat. *Stress Granule Dynamics in ADAR Knockout Cells Under Interferon and Arsenite Stress Conditions*. Faculty Mentor: Joseph Luna, Department of Biochemistry, School of Medicine.

2<sup>nd</sup> Brynn Connors. *Oral Streptococci Produce Hydrogen Peroxide at Differing Concentrations: Commensal Microbial Phenotypes and their Influence on Pathogenicity*. Faculty Mentor: Gina Lewin. Department of Pathology, School of Medicine.

### Physical Sciences

1<sup>st</sup> Tied Josephine King. *Identifying a Targetable Surface on 3C Protease to Treat Hand, Foot, and Mouth Disease*. Faculty Mentor: Divita Mathur. Department of Chemistry.

1<sup>st</sup> Tied Angela Yang. *Utilizing Fluorine NMR to Characterize Important Human RNA Binding Proteins*. Faculty Mentor: Divita Mathur. Department of Chemistry.

2<sup>nd</sup> Anuj Pahuja. *Synthesis and Characterization of Fluorescent Biocompatible Polymers for Ocular Applications*. Faculty Mentor: Metin Karayilan. Department of Chemistry.

## **Social Sciences**

**1<sup>st</sup> Tied** Abagayle Omlor. *The Consequences of Weight Stigma in Healthcare Settings*.  
Faculty Mentor: Anastasia Dimitropolous. Department of Psychological Sciences.

**1<sup>st</sup> Tied** Tamyra Otkins. *The Impact of Police Surveillance on Students: The School-to-Prison Pipeline and Students' Wellbeing*. Faculty Mentor: Anastasia Dimitropolous. Department of Psychological Sciences.

**2<sup>nd</sup> Tied** Mikela Jagoda. *The Impacts of Team Culture, Ritual, and Mindset on the Overall Success of Collegiate Fastpitch Softball Players and Their Teams*. Faculty Mentor: Katia Almeida. Department of Anthropology.

**2<sup>nd</sup> Tied** Jaylene Vázquez. *Attitudes toward the Past, Present, and Future: Examining Implicit Biases across Diverse Racial, Ethnic, and Socioeconomic Groups*. Faculty Mentor: Brooke Macnamara. Department of Psychological Sciences.