

**Intersections: SOURCE Presentation Award Winners  
December 2022**

**Arts and Humanities**

- 1<sup>st</sup> Alex Clampffer. *The Importance of Having Properly Funded Art Programs in Public Schools*.  
Faculty Mentor: Anastasia Dimitropoulos, Ph.D., Department of Psychological Sciences.

**Engineering and Computer Sciences**

- 1<sup>st</sup> Tied Benjamin George, Brinda Kapur, and Cora Lutes. *Automated Hydroponic System*. Faculty Mentor: Evren Gurkan-Cavusoglu, Ph.D., Department of Electrical, Computer, and Systems Engineering.
- 1<sup>st</sup> Tied Andrea Regli, Mark Vaughn, and Zach Baldwin. *D.R.U.M.: Digital Rhythmic Utility Modules*. Faculty Mentor: Daniel Saab, Ph.D., Department of Electrical, Computer, and Systems Engineering.
- 1<sup>st</sup> Tied Quang Le. *Piezoelectric Sonicator for Aerosolization*. Faculty Mentor: Shanel Pickard, Ph.D., M.D., Department of Mechanical & Aerospace Engineering.
- 2<sup>nd</sup> Aaron Rodrigues, Eric Chen, Shifra Narasimhan, Jeremiah Ukwela, and Lauren Zukowski. *Development of an At-Home Electroencephalogram (EEG) Device*. Faculty Mentor: Colin Drummond, Ph.D., Department of Biomedical Engineering.

**Life Sciences**

- 1<sup>st</sup> Tied Latavya Chintada. *The Role of Neuroinflammation and Neurodegeneration in Decision-Making Deficits in a Rodent Model of Traumatic Brain Injury*. Faculty Mentor: Ken Baker, Ph.D., Department of Neurosciences, Cleveland Clinic.
- 1<sup>st</sup> Tied Hannah Stein-Halilovic. *Endometriosis: Painfully Underfunded and Understudied*. Faculty Mentor: Yolanda Fortenberry, Ph.D., Department of Biology.
- 2<sup>nd</sup> Tied Thomas Disabato. *The Role of Neutrophil Extracellular Traps in the Sciatic Nerve Following Injury*. Faculty Mentor: Richard Zigmond, Ph.D., Department of Neurosciences
- 2<sup>nd</sup> Tied Kaitlyn Koo. *Optimizing Electroporation Parameters for Efficient Transfection of Primary Neurons*. Faculty Mentor: Qingzhong Kong, Ph.D., Department of Pathology.

**Physical Sciences**

- 1<sup>st</sup> Madison Pugh. *Synthesis and Characterization of Hexyloxy Substituted Azadipyrromethene-Based Non-Fullerene Acceptors*. Faculty Mentor: Geneviève Sauv , Ph.D., Department of Chemistry.
- 2<sup>nd</sup> Kai Yamagami. *Droplet coacervate is stabilized in a polymer gel network by crowding and elasticity*. Faculty Mentor: Svetlana Morozova, Ph.D., Department of Macromolecular Science & Engineering.

**Social Sciences**

- 1<sup>st</sup> Tied Johnathan Huynh. *Sleep Quality and Cardiometabolic Risk in Young Adults with Type 1 Diabetes*. Faculty Mentor: Stephanie Griggs, Ph.D., RN, FAAN, School of Nursing.
- 1<sup>st</sup> Tied Claire Turner. *Mental Health Outcomes and Interventions in Children with Parental Cancer*. Faculty Mentor: Anastasia Dimitropoulos, Ph.D., Department of Psychological Sciences.

2<sup>nd</sup> *Tied* Paola Van der Linden Costello. *The Impact of Nixon's Administration Bills on Prison Population Demographics: An Interrupted Time Series Study*. Faculty Mentor: Mary Erdmans, Ph.D., Department of Sociology.

2<sup>nd</sup> *Tied* Harrison Shepherd. *Mentally Incarcerated: Psychological Services on Offer in Prisons*. Faculty Mentor: Anastasia Dimitropoulos, Ph.D., Department of Psychological Sciences.