

Intersections: Undergraduate Research Presentation Award Winners Spring 2024 Intersections

Arts and Humanities

1st Ailean Duffie, *The Transformative Decade and the Inspirational Legacy of the United States Most Prolific Sex Work Advocacy Organization: COYOTE (Call Off Your Old Tired Ethics)*. Faculty Mentor: Renee Sentilles, Department of History

2nd Tied Clara Vorndran. *Separatist Movements in the Russian Republics of Chechnya and Dagestan*. Faculty Mentor: Bridget Haas, Department of Anthropology

2nd Tied Russell Low. *Dissolution and Disillusion: The American Response to Corporate War Crimes in Post-WWII Germany and Japan*. Faculty Mentor: Kenneth Ledford, Department of History

Engineering

1st Tied Noah Hardy, Connor Taseff, Daniel Popp, Daniel Arnholt, Toby Strader, Kevin Zhou, Paul Schussler, *EchoHarbor: Using Natural Language Processing and Vector Embedding to Recommend Music*. Faculty Mentor: Shuai Xu, Department of Computer and Data Sciences

1st Tied Michael Kong. *Multi-plane rectal tumor segmentation on pre-treatment MRI via human-in-the-loop deep learning*. Faculty Mentor: Satish Viswanath, Department of Biomedical Engineering

1st Tied Abigail Roeckmann, Danielle Sun. *Bio-inspired hemostatic liposomes for targeted delivery of thrombin*. Faculty Mentor: Anirban Sen Gupta, Department of Biomedical Engineering

Life Sciences

1st Tied Shruti Bhatia. *Characterization of Puncta-Like Structures Following Demyelination in the Mouse Hippocampus*. Faculty Mentor: Hod Dana, Department of Neurosciences

1st Tied Krish Shah. *Capsular contracture in breast implants as a product of the foreign body response and mitigation strategies*. Faculty Mentor: Robert Galiano, Department of Plastic and Reconstructive Surgery, Northwestern Feinberg School of Medicine.

1st Tied Ashleigh Walker. *Localization of rDNA and DNA during metaphase in *Saccharomyces Cerevisiae**. Faculty Mentor: Alan Tartakoff, Department of Pathology, School of Medicine

2nd Tied Lydia Mitchell. *Transcriptome Changes Involved in Epileptogenesis in Pilocarpine-Induced Temporal Lobe Epilepsy Mouse Models*. Faculty Mentor: Hoonkyo Suh, Department of Neurosciences

2nd Tied Vani Thakur. *Single-cell-resolution morphological analysis of brain endothelial cells*. Faculty Mentor: Ryota Matsuoka, Department of Neurosciences, Cleveland Clinic Lerner Research Institute

Physical Sciences

1st Tied Summer Carver. *Using Raman Microscopy to Investigate Heterovalent Ternary Nitrides*. Faculty Mentors: Lydia Kisley and Kathleen Kash, Department of Physics

1st Tied Marianita Castro Santiago *Contribution of Lon Protease Towards Degradation of Lambda N Antitermination Transcription Factor*. Faculty Mentor: Irene Lee, Department of Chemistry

2nd Daniele Vinella. *Synthesis of Fluorescent Viscoelastic Polymers for Ocular Applications* Faculty Mentor: Metin Karayilan, Department of Chemistry

Social Sciences

1st Yash Purohit, Minh Nguyen. *Finding The American Dream: How flat income taxation influences immigration*. Faculty Mentor: Jenny Hawkins, Department of Economics

2nd Tied Ava Ng, *Pediatric TBI, School Support, and Socioeconomic Factors: Is There a Relationship?*. Faculty Mentor: Angela Ciccio, Department of Communication sciences

2nd Tied Jack Spencer, Simon Cohen. *The Cost of Living: Impact of American Healthcare Spending on Life Expectancy*. Faculty Mentor: Jenny Hawkins, Department of Economics