Honors Student Enrichment Grant

Spring 2021

**Darcy Bonds, Horticulture** - Participation in the National Conference on Undergraduate Research - *Faculty mentor: Jacek Koziel*; Project name: Improving the sustainability of animal and crop production agriculture: evaluation of biochar-swine manure mixture impact on soil nutrient availability and plant uptake

**William Crow, Biology** - Participation in the National Conference on Undergraduate Research - *Faculty mentor: Clark Coffman*; Project name: Creating a transgenic drosophila line expressing mRFPruby in primordial germ cells

**Elizabeth Cuvelier, Elementary Education** - Participation in the National Conference on Undergraduate Research - *Faculty mentor: Jacob Meyer*; Project name: Mental health among college athletes

**Haley Dostalik, Genetics** - Participation in the National Conference on Undergraduate Research - *Faculty mentor: Caroline Lawrence-Dill*; Project name: Functional annotation of the grape genome

**Jacob Gasper, Architecture** - Participation in the National Conference on Undergraduate Research - *Faculty mentor: Shelby Doyle*; Project name: Architectural clay formworks

2019-20

**Elea Kaptain, English Education / Spanish Education** - Presentation at the International Writing Center Association Conference, Columbus, OH, October 2019 - *Project Title*: Tutorial Alliance and Session Success with Non-native English Speakers in the Writing and Media Center; *Project advisor*: Joseph Cheatle

**Nikita Kozak, Mechanical Engineering / Mathematics** - Presented at the National Collegiate Research Conference, Boston, MA, January 2020 - *Project Title*: Application of Machine Learning, DEA and a Recommendation System for Intermittent Material Planning; *Project advisor*: Meltem Denizel-Karakaya

**Benjamin Litterer, Data Science** - Presented at the Biophysical Society Annual Meeting, San Diego, CA, February 2020 - *Project Title*: Using Sequence Structure Information to Annotate Gene and Protein Function; *Project advisor*: Robert Jernigan
**Abigayle Moser, Aerospace Engineering** - Presentation at the American Physical Society Division of Fluid Dynamics in Seattle, WA, November 2019 - *Project Title*: Effect of Complex Terrains on Wind Energy Production; *Project advisor*: Luciano Castillo, Purdue University

**David Reynolds, Mechanical Engineering** - Presented at the National Collegiate Research Conference, Boston, MA, January 2020 - *Project Title*: Maternally Administered Naltrexone and Its Major Active Metabolite 6β-Naltrexol Transport across the Placental Barrier In Vitro; *Project advisor*: Nicole Hashemi

**Sara Ronnkvist, Statistics** - Presentation at the Population Association of America Annual Meeting, April 2020 - *Project Title*: The Effects of Climate Variability on Fertility in Sub-Saharan Africa; *Project advisor*: Brian Thiede, Penn State University

### 2018-19

**Jacqueline Ehrlich (Biochemistry)** - Presentation at the National Council on Undergraduate Research - *Project title*: Characterization of XXT1 Modes of Substrate Binding and XXT5 Structure-solubility Relationship Using Site-directed Mutagenesis; *Project advisor*: Olga Zabotina, Biochemistry Biophysics and Molecular Biology

**Richard Gardner (Kinesiology)** - Presentation at the Experimental Biology research conference - *Project title*: Two-Weeks of Remote Ischemic Preconditioning Alters Sympathovagal Balance; *Project advisor*: James Lang, Kinesiology

**Austin Hanus (Computer Engineering)** - Research presentation in Tokyo, Japan - *Project title*: A Collaborative Virtual Reality Escape Room with Passive Haptics; *Project advisor*: Eliot Winer, Virtual Reality Applications Center

**Audrey Uridil (Nutritional Sciences - Pre-Dental)** - Attendance at the Experimental Biology research conference - *Project title*: Duration of Remote Ischemic Preconditioning on the Skin Microvascular Response to Local Heating; *Project advisor*: James Lang, Kinesiology