

The Excellence in Creative Inquiry Student Award is awarded to four undergraduates each year to recognize outstanding participation in undergraduate research or creative activities during the summer, including participation in the Creative Inquiry Summer Experience (CISE) program. Recipients receive a monetary award of \$250 and a certificate to commemorate their accomplishments. Students are nominated for this award by their faculty mentor.

### Summer 2021

- **Austin Day.** Mentor: Dr. Jane Liu. Department of Civil and Environmental Engineering (College of Engineering). Project Title: *Modeling Energy Dissipation in Viscoelastic Metamaterial Components*
- **Rebecca Firth.** Mentor: Dr. Wilson Gichuhi. Department of Chemistry (College of Arts and Sciences). Project Title: *Photoelectron Spectroscopy of Mono and Dicyanobenzene Anions*
- **Jaclyn Kreeger.** Mentor: Dr. Lauren Michel. Department of Earth Sciences (College of Arts and Sciences). Project Title: *Paleoclimate Data on Rusinga Island*
- **Abby Ramaker.** Mentors: Mr. Perry Johnson, Ms. Meredith Lewis, Dr. Shawn Krosnick, Ms. Delayne Miller. School of Art, Craft and Design (College of Fine Arts). Project Title: *Campus Mural in Native Plant Garden*
- **Hayden Suddeath.** Mentors: Dr. Twanelle Majors and Dr. Oana Cojocar. Department of Chemistry (College of Arts and Sciences). Project Title: *Synthesis of Bioactive Juglone Compounds Via Aromatic Cations*

### Summer 2020

- **Eungkyun Kim.** Mentor: Dr. Indranil Bhattacharya. Department of Electrical and Computer Engineering (College of Engineering). Project Title: *Improving the Quantum Efficiency of Multi-junction Perovskite Solar Cells*
- **Bethann Oberlander.** Mentor: Dr. Tammy Boles. Department of Environmental Sciences (College of Interdisciplinary Studies). Project Title: *Investigation of Raman Spectroscopy for Molecules Associated with Human Decomposition*
- **Katherine Shinn.** Mentor: Ms. Rena Wood. School of Art, Craft and Design (College of Fine Arts). Project Title: *Appalachian Center for Craft Dye Garden*
- **Jacob Thorn.** Mentor: Dr. Andrea Cojocar. Department of Chemistry (College of Arts and Sciences). Project Title: *Transdermal Delivery of Hepatoprotective Drugs in Liquid State*
- **Yixing Wang.** Mentor: Dr. Duckbong Kim. Department of Manufacturing and Engineering Technology (College of Engineering). Project Title: *Investigation of Defects Formation Mechanisms in Wire+Arc Additive Manufacturing (WAAM) Process*

## Summer 2019

- **Courtney LaPointe.** Mentor: Dr. Jeff Boles. Department of Chemistry (College of Arts and Sciences). Project Title: *Qualifying Cannabis using thin layer Chromatography*
- **Rachel Paris.** Mentor: Dr. Andreea Cojocar and Dr. Twanelle Majors. Department of Chemistry (College of Arts and Sciences). Project Title: *Controlled Release of Juglone Compounds in Acidic Medium from Hydrophilic Mesoporous Silica*
- **Logan Unser.** Mentor: Dr. Ahmad Vasel. Department of Manufacturing and Engineering Technology (College of Engineering). Project Title: *Investigating the Effect of Wind Lens Technology on the Performance of Vertical Axis Wind Turbines*
- **Maci Arms.** Mentor: Dr. Tania Datta. Department of Civil and Environmental Engineering (College of Engineering). Project Title: *Data Collection Towards Understanding Stormwater Management and Flooding Issues in the town of Gainesboro, Jackson County, TN*

## Summer 2018

- **Lillian Pipkin.** Mentor: Dr. O. Andreea Cojocar. Department of Chemistry (College of Arts and Sciences). Project Title: *Dual functioning liquid salt of phenothiazine drugs*
- **Michael Stooksbury.** Mentor: Dr. Sean Alley. Department of Economics (College of Business). Project Title: *The Effects of Transfer Payments on Labor Productivity and Labor-Leisure Choices: A Behavioral Economics Approach*
- **Tessa Eskander.** Mentor: Dr. Holly Stretz. Department of Chemical Engineering (College of Engineering). Project Title: *Lithium Extraction from Brine using Li/Al Layered Double Hydroxide Chloride in a Microfluidic Fiber Reactor*
- **Hannah Buckner.** Mentor: Dr. Nikki Panter. Department of Biology (College of Arts and Sciences). Project Title: *This is Nuts: Training Shelter Dogs to Detect Peanut Allergens*

## Summer 2017

- **Mary Holden.** Mentor: Dr. Brian Leckie. Department of Agriculture (College of Agriculture and Human Ecology). Project Title: *Field Evaluation of Southern Appalachian Heirloom Bush Type Green Beans*
- **Parker Lusk.** Mentor: Dr. Holly Stretz. Department of Chemical Engineering (College of Engineering). Project Title: *Detection of Lead Contaminants in Water using Functionalized Gold Nanoparticles*
- **Nathan Martindale.** Mentor: Dr. Jerry Gannod. Department of Computer Science (College of Engineering). Project Title: *Use of Machine Learning Algorithms to Help Understand Preferences of Residents in Long Term Care Facilities*
- **David York.** Mentor: Dr. Sean Alley. Department of Economics, Finance and Marketing (College of Business). Project Title: *Maximizing Government Revenue through Taxation*