

Undergraduate Research Day at the State Capitol

Congratulations to the fourteen students selected to represent MU at the UM System Undergraduate Research Day at the State Capitol!

This annual event was scheduled for Thursday, April 2, 2020; however, was cancelled due to the pandemic. Students applied early in the fall semester and then attended a series of workshops and meetings to prepare for this annual event. A list of projects appears below, along with the student names, hometowns, majors, and faculty mentors.

Exploring How Nitrogen Affects Corn Growth Using Radioactive Carbon

Mary Benoit Centralia, MO Plant Science
Dr. Richard Ferrieri, MU Research Reactor

Cover Crop and Biofuel Crop Effects on Soil Hydraulic Properties

Cole Diggins Bronaugh, MO Soil Resource Management
Dr. Stephen Anderson, Soil and Environmental Sciences

Measuring how cyberattacks can impact users' ability to learn effectively in Virtual Reality Learning Environments

Ben Frailey St. Louis, MO Computer Science
Dr. Prasad Calyam, Electrical Engineering & Computer Science

Pottery Provenance in Agia Irini: Using Pottery Analysis to Establish Ceramic Production and Trade Networks in Ancient Greece

Sarah Gilmer Nixa, MO Archaeology; Anthropology
Dr. Brandi MacDonald, MU Research Reactor

Regenerating complex bone tissue with implantable synthetic scaffolds for better bone fracture treatment

Mollie Harrison Kirkwood, MO Chemical Engineering
Dr. Bret Ulery, Biomedical, Biological & Chemical Engineering

Evaluating a new method for doctors to measure lung function

J.D. Peiffer Ballwin, MO Biomedical Engineering
Dr. Robert Thomen, Biomedical, Biological & Chem Engineering

Using Food Chemistry to Increase Stability in Emulsified Foods to Match Consumer Demand

Nicholas Pham Kansas City, MO Food Science & Nutrition
Dr. Bongkosh Vardhanabhuti, Food Science

Evaluating the Upper Thermal Limits among Four Species of Missouri Salamanders

Micah Turrell Fulton, MO Natural Resource Sciences
Dr. Manuel Leal, Biological Sciences

Beef Cattle Fertility: Correlation Discovered Between Length of Sperm Tail Mitochondrial Sheath and Fertility Rates

Grace Wiley Springfield, MO Biochemistry
Dr. Peter Sutovsky, Animal Science

Improving Social Skills and Communication to Reduce Bullying among Youth

Colleen Clancy	Fenton, MO	Secondary Education, Mathematics
Kalie Crawford	Frankenstein, MO	Elementary Education
Annie Jurgensmeyer	Overland Park, KS	Elementary Education
Grace Kempen	Arnold, MO	Elementary Education
Adrienne Skelton	Jefferson City, MO	Special Education
	Dr. Chad Rose,	Special Education