

2020 WISER/MURE/FURP Undergraduate Research Symposium

November 11, 2020, 6 PM – 8 PM

<https://psu.zoom.us/j/91514679655>

Approximate schedule

6:00 – 6:05: Welcome and Introductions

6:05 – 6:25: Keynote: *Where research can take you: an undergraduate perspective*,
Madeline Vailhe (Materials Science and Engineering)

6:25 ~ 8:00: Student lightning talks (see below)

Approx. time	Name	Department	Talk title	Advisor
6:25 - 6:40 6 lightning talks followed by short break for Q&A	Rachel Stofanak	Biological Engineering	Creating Fuel from Waste	Phil Savage
	Lillian Muller	Meteorology	The Degradation of Floral Scents in a Polluted Environment	Jose Fuentes
	Stephanie Snyder	Physics	Tracking Subsurface Changes Using Fiber Optic Distributed Acoustic Sensing	Tieyuan Zhu
	Trisha Poorbaugh	Ecology	Fe reduction and metal cycling bacteria in soils	Jason Kaye
	Jenna Tsvayg	Nutritional Sciences	Investigating the Impact of Food Form on Children's Ability to Compensate for Energy	Kathleen Keller
	Lauren Ludwikowski	Biomedical Engineering	Mesenchymal Stem Cell Adhesions	Justin Brown
6:40 - 6:55 5 lightning talks followed by short break for Q&A	Delián Colón-Burgos	Meteorology	Day-night changes in wind direction on mountainous terrains	Kenneth Davis
	Julia Jablonski	Center for Human-Computer Interaction	CHI Paper, Swift IOS app, IRB approved studies	John Carroll
	Rose Hudson	Astrophysics	Face Orbitals: Adapting Deep Learning Models to Generate Artificial Faces	Brad Wyble
	Ellen Poplavska	Information Sciences and Technology	Privacy, Security and Language	Shomir Wilson
	Jennifer Aklilu	Sustainable Transportation	Charging Infrastructure Coverage for Equitable Access to Plug-In Vehicles	Elizabeth Traut
6:55 - 7:10 6 lightning talks followed by short break for Q&A	Abigail Palacios	Biochemistry and Molecular Biology	Strain Diversity in the Squid-Vibrio Symbiosis	Timothy Miyashiro
	Anna Foltz	Biology	Fluorescent Protein Trapping in <i>Drosophila melanogaster</i>	Claire Thomas
	Arashleen Pannu	Center for Eukaryotic Gene Regulation	Using a Bioinformatics Approach to Analyze DNA Binding Sites of Various Transcription Related Proteins	David Gilmour
	Bryanna White	Biology	Utilizing Cytoscape for Network Visualization in <i>Drosophila</i> Gene Protein Content is Karst, isoform A, alpha and beta spectrin	Claire Thomas
	Kristine Luo	Eberly College of Science	Restriction Enzyme Cloning with ZNF and NMD	Yingwei Mao
	Veronica Zubritzky	Anthropology	The asymmetry of lower limb bones	Tim Ryan
7:10-7:25 6 lightning talks followed by short break for Q&A	Bayli Grossi	Materials Science and Engineering	Measuring porosity in additive manufacturing	Allison Beese
	Isabelle Seidenberg	Materials Science and Engineering	Characterization of additively manufactured metals	Allison Beese
	Krystal Leung	Materials Science and Engineering	Optimizing metal deformation models	Allison Beese
	Lindsay Jones	Materials Science and Engineering	Predicting packing length for real polymers using simulations	Scott Milner
	Maya Debski	Astronomy and Astrophysics	Analysis of Te-REX Sources Using HAWC Observatory Data	Miguel Mostafa
	Erica Heller	Astronomy and Astrophysics	Analysis of Te-REX Upper Limits Using HAWC Observatory Data	Miguel Mostafa
7:25-7:40 6 lightning talks followed by short break for Q&A	Alexandria Auerbeck	Kinesiology	PASTime Research Study	David Conroy
	Camryn Buss	Kinesiology	Yes, work with the PASTime study	David Conroy
	Mahika Sampat	HHD Communication Science and Disorders	Aphasia treatment through the lens of fMRI and EEG	Chaleece Sandberg
	Emma Anziano	Biobehavioral Health	A Discussion of Scientific Literature Related to the Impact of Stress on Mouse Behavior	Helen Kamens
	Allison Clark	Geosciences	Monitoring Boulder Transport in the Taiwan Central Range from Repeat Drone Surveys	Roman DiBiase
	Reilly Smith	Larson Transportation Institute	Assessment of Barriers to Adoption of Electric Bicycles in Centre Region, Pennsylvania	Elizabeth Traut

Questions: Allison Beese (amb961@psu.edu)

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