



POSTER SESSION TWO
Henry Hood Center for Health Research || Ground Floor
11:00-12:15 p.m.

#1 **Maggie Zuvich**, Bloomsburg University

Evaluating the Ethical Decision-Making of ASL Interpreters

Categories: Arts, Humanities and Social Sciences / Studies of Health and Wellness across disciplines

Mentor: Christopher Podeschi

#2 **Jingyi Zhou**, Bucknell University

Data Quality Differs by Race and Ethnicity: Evidence from CPS for Black Hispanics

Categories: Arts, Humanities and Social Sciences / Engineering, Computer Science and Natural Sciences

Mentor: Stephan Lefebvre

#3 **Reece Pauling**, Bucknell University

Botanical Garden Project

Categories: Arts, Humanities and Social Sciences / Studies of Health and Wellness across disciplines

Mentor: Katherine Faull

#4 **Emma Keller**, Bucknell University

Marble burying shows sex dependent effects of EtOH

Categories: Arts, Humanities and Social Sciences / Engineering, Computer Science and Natural Sciences

Mentor: Judy Grisel

#5 **Katelyn Bucher**, Susquehanna University

Stress and Community Identification During COVID-19

Categories: Arts, Humanities and Social Sciences / Life Sciences

Mentor: Nick Ungson

#6 **Allyson Clarke**, Bucknell University

Detecting Muscle Fatigue in sEMG Data Through Machine Learning

Categories: Engineering, Computer Science and Natural Sciences / Life Sciences

Mentor: Benjamin Wheatley

#7 **Tyler Hargus**, Susquehanna University

What is the fastest way to process your data while keeping it secure?

Categories: Engineering, Computer Science and Natural Sciences / Arts, Humanities and Social Sciences

Mentor: Hojin Chang

#8 **Quan Nguyen Tu & Bangyan Li**, Bucknell University

ProPANE Notetaking Assistive Technology

Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines

Mentor: Robert Nickel

#9 **Sarah Vestal**, Bucknell University

Analysis of Upper Extremity Joint Kinematics and Surface Electromyography

Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines

Mentor: Benjamin Wheatley

#10 **Brianna Watts**, Susquehanna University

*The histone H2A variant H2A.Z regulates the expression of TOR signal genes in the yeast *Saccharomyces cerevisiae**

Categories: Engineering, Computer Science and Natural Sciences / Life Sciences

Mentor: Michael Parra

#11 **Eric Ressler**, Susquehanna University

Synthesis and Optical and Electrochemical Properties of Squaraine-Based Dyes

Categories: Engineering, Computer Science and Natural Sciences / Life Sciences

Mentor: Phillip Brogdon

#12 **Christopher Manko & Steven Grampp**, Geisinger

Incidental Discovery of a Left Ventricular Mass in an Octogenarian with Metastatic Squamous Cell Lung Cancer

Categories: Life Sciences / Studies of Health and Wellness across disciplines

Mentor: Stephen Voyce

#13 **Morgan Thomas, Riley Beebe & Zhengkai Zhu**, Bucknell University

*Meiotic Segregation of the Sex Trivalent System in *Hierodula membranacea**

Categories: Life Sciences / Engineering, Computer Science and Natural Sciences

Mentor: Leocadia Paliulis

#14 **Michelle Vovsha**, Bucknell University

Testing the Activity of Photinus Pyralis CecX Against Different Bacterial Strains

Categories: Life Sciences / Engineering, Computer Science and Natural Sciences

Mentor: Moria Chambers

#15 **Hannah Holmes**, Bucknell University

Losing Light: Pheromone Use in Firefly Mate Attraction

Categories: Life Sciences / Engineering, Computer Science and Natural Sciences

Mentor: Sarah Lower

#16 **Grace Ginder**, Bucknell University

The impact of antimicrobial peptides on resistance to bacterial infection

Categories: Life Sciences / Engineering, Computer Science and Natural Sciences

Mentor: Moria Chambers

#17 **Hannah Mirshahi**, Geisinger

Risk of Thoracic Aortic Aneurysm Increased by Pathogenic Variants in TGF β Signaling Pathway

Categories: Life Sciences / Studies of Health and Wellness across disciplines

Mentor: David Carey

#18 **John Seibert**, Geisinger

Sex chromosome aneuploidies and risk of neuropsychiatric disorders in two population-based cohorts

Categories: Studies of Health and Wellness across disciplines / Life Sciences

Mentor: Matthew Oetjens

#19 **Claire Engel**, Bucknell University

Data sharing between Get-2-Goal medical app and Apple Health app

Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines

Mentor: Lea Wittie

#20 **Yahya Khan**, Geisinger

Genetic Basis of Long QT Syndrome through Analysis of MyCode Patient Data

Categories: Studies of Health and Wellness across disciplines / Life Sciences

Mentor: Tooraj Mirshahi

#21 **Omid Mohammadi**, Bucknell University

Accessibility - Get2Goal Medical App

Categories: Studies of Health and Wellness across disciplines / Engineering, Computer Science and Natural Sciences

Mentor: Lea Wittie & Anne Ross

#22 **Collin Murphy**, Bucknell University

Predicting Patient-Specific Optimal Deep Brain Stimulation Locus Using Subthalamic Nucleus Anatomy

Categories: Engineering, Computer Science and Natural Sciences / Life Sciences

Mentor: Karlo Malaga

#23 **Melanie Gamboa**, Bucknell University

Bacteria Impaired Streams in Union County

Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines

Mentor: Deborah Sills

#24 **Jacqueline Zak**, Bucknell University

Deep Brain Stimulation of the Subthalamic Nucleus and its Effect on Gait Disturbances in Parkinson Disease

Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines

Mentor: Karlo Malaga