

31st Annual Radford University Student Engagement Forum

Tuesday, April 19th:

Creativity and Innovation Poster Session 1	2:00 pm – 3:15 pm	Heth 014
Criminal Justice Poster Session 1	2:00 pm – 3:15 pm	Heth 014
Advertising Strategy Poster Session 1	3:30 pm – 4:45 pm	Heth 014
Honors Capstone Showcase:		
Posters	2:30 pm – 3:15 pm	Kyle 340
Oral Session	3:15 pm – 4:30 pm	Kyle 340
Posters	4:30 pm – 5:30 pm	Kyle 340
Oral Session	5:30 pm – 6:30 pm	Kyle 340
Psychology and Gender Research Symposium		
Posters	5:00 pm – 6:00 pm	Heth 014
Oral Session	6:00 pm – 6:30 pm	Heth 022
Posters	6:15 pm – 7:15 pm	Heth 014
Production Technology Showcase	5:30 pm – 7:00 pm	Hemphill 1006

Wednesday, April 20th:

Innovations in Forensic Science	8:00 am – 9:50 am	Heth 022
Environmental History Showcase	11:00 am – 11:50 am	Heth 022
Exhibiting Ethics	11:00 am – 11:50 am	Heth 016
Creative Writing in Place	1:00 pm – 1:50 pm	Heth 022
Interdisciplinary Research Showcase	1:00 pm – 1:50 pm	Center for the Sciences Lobby
Geospatial Science Poster Session	1:00 pm – 1:50 pm	Reed Hall Artis Atrium
New Beginnings in Modern Art	2:00 pm – 2:50 pm	Heth 022
Preparing to Teach Diverse Women Writers in Hostile Times	4:00 pm – 5:15 pm	Heth 022
Arctic Geophysics Oral Session	6:00 pm – 9:30 pm	Center for the Sciences Planetarium

Thursday, April 21st:

Health and Human Performance Research Methods Showcase		
Posters	12:30 pm – 1:45 pm	Kyle 340
Posters	2:00 pm – 3:15 pm	Kyle 340
Posters	3:30 pm – 4:45 pm	Kyle 340
Biomechanics Research Showcase 1		
Posters	2:00 pm – 3:15 pm	Kyle 340
Posters	3:30 pm – 4:45 pm	Kyle 340
Topics in Asian Art	2:00 pm – 3:15 pm	Heth 022
Creativity and Innovation Poster Session 2	2:00 pm – 3:15 pm	Kyle 340
Criminal Justice Poster Session 2	2:00 pm – 3:15 pm	Kyle 340
Advertising Strategy Poster Session 2	3:30 pm – 4:45 pm	Kyle 340
Interdisciplinary Oral Presentations	3:30 pm – 4:45 pm	Heth 022
Chemistry Oral Session	3:30 pm – 4:45 pm	Hemphill 3016
Chemistry Poster Session	5:00 pm – 6:15 pm	Center for the Sciences Lobby
Biology Poster Session	5:00 pm – 6:15 pm	Center for the Sciences Lobby
Flash Talks	6:00 pm – 6:50 pm	Center for the Sciences M073

Friday, April 22nd:

Fresh Fruit Friday: Genetics Edition

8:45 am – 10:00 am

Reed Hall Artis Lobby

Monday, April 25th:

Citizen-Leader Showcase

4:00 pm – 6:00 pm

Virtual on Zoom

Interdisciplinary Virtual Presentations

5:00 pm – 5:30 pm

Virtual on Zoom

Wednesday, April 27th:

Social Entrepreneurship Student Success Challenge

11:00 am – 12:15 pm

McConnell Library

2:00 pm – 3:15 pm

McConnell Library

Student Engagement Forum Coordinators in OURS

Joe Wirgau, Director

Jennifer McDonel, Associate Director

Keishaun Williams, Administrative Assistant

Abby Harbower, Graduate Assistant

Yasmine Tyler, Graduate Assistant

Leah Ellis, Executive Student Assistant

Maia Grove, Executive Student Assistant

Skylar Roberson, Executive Student Assistant

The following individuals are acknowledged for their contributions:

Charley Cosmato, Director, Center for Innovative Teaching and Learning

Mary Beth Kegley, Graphic Design Manager, University Relations

Jonathan Mayer, Assistant Manager, Printing Services

Jeanne Mekolichick, Associate Provost, Provost Office

Norma Riggins, Event Planning Manager, University Services

Josh Wimmer, Graphic Production Tech, Printing Services

Welcome

It with great pleasure I can say welcome to the 31st Annual Radford University Student Engagement Forum! And not only a welcome to the student presenters and audience members, the faculty mentors and staff that support, empower, and develop our highlanders, the friends and family that support us all when trying to create new knowledge (it is not linear, nor easy), but also a welcome back to campus as an in-person event to the Student Engagement Forum itself.

This program contains over 350 presentations by over 400 unique students and nearly 100 faculty. There is a student-faculty team working on solving about every problem imaginable. It is inspiring and needed to help navigate the unprecedented times we find ourselves locally, nationally, and globally. I hope you are able to interact with many of our presenters and find inspiration from their research, their stories, and their future directions. It is not easy to start let alone finish a research project, so I need to thank everyone who once or twice (or daily) offered a word of encouragement, a shoulder to lean on, a friendly ear to listen to venting or brainstorming or maybe a bit of both at the same time. A huge thank you and a bit of awe to all of the faculty mentors, all of these projects needed to navigate the impacts of covid and provide our students with the Career Readiness Competencies needed to be successful in the workforce.

And like research, it takes a team to run an event like the Student Engagement Forum and I am blessed to work with a tremendous group at the Office of Undergraduate Research & Scholarship. I am excited every day to come to work and burst through the door to Whitt 111 and thankful Keishaun is never put off by my energetic entrances and even seems happy to see me during them. Keishaun has also to my amazement been on top of poster printing, travel, the budget, and still makes time to personally connect to everyone in the office each day. It is an honor to work with him. It is with joy I have watched Dr. Jennifer McDonel absorbing and learning everything that we try to support across campus, adding value to our enterprises, and getting comfortable enough with us in her own words to let her “goofiness” come out. I am so excited to see her be able to use her obvious leadership skills in advancing research and creative inquiry in the coming years. And I would be remiss not to mention the role Dr. Jeanne Mekolichick plays advancing the research enterprise on and beyond campus, which is greatly appreciated, but not nearly as much as her mentorship of me over the past seven plus years. I learn from every one of our meetings. And now to refocus on the students who are central to everything we do. We have amazing students supporting OURS. Our GAs, Abby Hardbower and Yasmine Tyler, have managed poster printing, pick up, messaging, and all of the odd jobs associated with running a conference with 500 students and faculty with grace and humor. It is not uncommon to hear laughter in the office, even on stressful days. Maia Grove, as a sophomore is the only member in the office to go through two full forum planning cycles and is a successful researcher and mentor to new researchers. One of those new researchers is Leah Ellis. Her ability to absorb and apply information in a thoughtful manner, be it informational or strategic, is astounding. And lastly, I cannot bee-lieve Skylar Roberson, who I think of as a ray of sunshine, is already graduating. I will miss her love of puns, ability to reflect strategically on the impact of our messaging and programs with students, and caring spirit. The OURS team is made up of very different personalities but all of them are caring, wonderful people, and I am truly lucky to get to work with them. Thank you and enjoy the “forum”!

-With Highlander Pride, Joe Wirgau, Director of OURS

Creativity and Innovation Poster Session 1

2:00 pm – 3:15 pm

Heth 014

How Might We Improve Student Food Security?

Student Presenter(s): Ed Quainoo, Ryan Yates, Jo Jeffers

Faculty Mentor(s): Jane Machin

How Might We Help Student Athletes Succeed?

Student Presenter(s): Jack Campbell, Tommy Costello, Rachael Cullop, Ashlyn Grogan, Jayden Williams

Faculty Mentor(s): Jane Machin

How Might We Help Women Feel Safe When Alone?

Student Presenter(s): Adyson Huff, Sarah Ibrahim, Anna Wilson

Faculty Mentor(s): Jane Machin

How Might We Improve Fast Food Safety?

Student Presenter(s): Caitlin Chi, Cody Parker

Faculty Mentor(s): Jane Machin

How Might We Improve Student Mental Health?

Student Presenter(s): Elijah Jefferies, Lisa Lindstrom, Marykelly Ozolins

Faculty Mentor(s): Jane Machin

How Might We Reduce Social Media Addiction?

Student Presenter(s): Alex Fargis, Scotty Paniagua, Nathaniel Smith

Faculty Mentor(s): Jane Machin

How Might We Improve Female Gym Safety?

Student Presenter(s): Deja Cotmon, Ashton Diehl, Keaunna Jones, Aidan Keegan

Faculty Mentor(s): Jane Machin

How Might We Reduce Student Burnout?

Student Presenter(s): Hannah Walters, Zylonis Cannon

Faculty Mentor(s): Jane Machin

How Might We Increase Child Sport Participation?

Student Presenter(s): Christopher Felty, Hunter Howery, Trevor Williams

Faculty Mentor(s): Jane Machin

How Might We Improve Student Mental Health?

Student Presenter(s): Kristina Burry, Cesar Diaz, Alison Stuedemann

Faculty Mentor(s): Jane Machin

How Might We Reduce Texting While Driving?

Student Presenter(s): Ashley Jennings, Callan Phillips

Faculty Mentor(s): Jane Machin

How Might We Improve Student Work Life Balance?

Student Presenter(s): Easton Forbes, Daniel Tyree

Faculty Mentor(s): Jane Machin

Creativity and Innovation Poster Session 1

2:00 pm – 3:15 pm Heth 014

How Might We Prevent Drunk Driving in Rural Areas?

Student Presenter(s): Hannah Thompson

Faculty Mentor(s): Jane Machin

Criminal Justice Poster Session 1

2:00 pm – 3:15 pm Heth 014

Should Victims of Child Pornography Undergo Therapy Until the Age of 18?

Student Presenter(s): Kasey Johnston

Faculty Mentor(s): Eric Snow

Lethal Injection and its Ethical Problems

Student Presenter(s): Hannah Anglin

Faculty Mentor(s): Eric Snow

Issues In Correctional System

Student Presenter(s): Makira Bond

Faculty Mentor(s): Eric Snow

Law Enforcement Mental Health

Student Presenter(s): Matt Domin

Faculty Mentor(s): Eric Snow

Human Trafficking In Relation To Child Pornography

Student Presenter(s): Tatianna Footman

Faculty Mentor(s): Eric Snow

Police Officers and Medical Training

Student Presenter(s): David O'Flaherty

Faculty Mentor(s): Eric Snow

Overcrowding In Prisons: Parole

Student Presenter(s): Victoria Roggenbuch

Faculty Mentor(s): Eric Snow

Marijuana Legalization

Student Presenter(s): Kayla Thomas

Faculty Mentor(s): Eric Snow

Cryptocurrency

Student Presenter(s): Nicholas Townsend

Faculty Mentor(s): Eric Snow

Human Trafficking: A Proposal of Policy for Virginia

Student Presenter(s): Cade Fisher

Faculty Mentor(s): Eric Snow

The Mental Health of Law Enforcement Officers

Student Presenter(s): Jamey Bocompani

Faculty Mentor(s): Eric Snow

Criminal Justice Poster Session 1

2:00 pm – 3:15 pm Heth 014

Drug Courts Efficacy

Student Presenter(s): Samantha Huffman

Faculty Mentor(s): Eric Snow

Mental Health within Prisons

Student Presenter(s): Finley Miers

Faculty Mentor(s): Eric Snow

Advertising Strategy Poster Session 1

3:30 pm – 4:45 pm Heth 014

Brand Positioning, Marketing Communications and Media Plan for Budweiser

Student Presenter(s): Emily Brandt

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Miller Lite

Student Presenter(s): Sam Filler

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Draft Kings

Student Presenter(s): Bryan Bunner

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Subaru

Student Presenter(s): Alex Welch

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Mercedes Benz

Student Presenter(s): Clara Defazio

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Audi

Student Presenter(s): Taylor O'Neal

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Ford F-150

Student Presenter(s): Walker Franklin

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Toyota Tacoma

Student Presenter(s): Callahan Cochran

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Dodge

Student Presenter(s): Evan Blakey

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Snickers

Student Presenter(s): Jaquan Perkins

Faculty Mentor(s): Jane Machin

Advertising Strategy Poster Session 1

3:30 pm – 4:45 pm

Heth 014

Brand Positioning, Marketing Communications and Media Plan for M&Ms

Student Presenter(s): Ryan Neil

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for M&Ms

Student Presenter(s): Samantha Rodriguez

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for M&Ms

Student Presenter(s): Trevor Williams

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for YETI

Student Presenter(s): Reid Londeree

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for YETI

Student Presenter(s): Terrel Smith

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for L'Oreal

Student Presenter(s): Jaclyn Carpenter

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Kylie Cosmetics

Student Presenter(s): Kayla Brown

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for CoverGirls Cosmetics

Student Presenter(s): Lindsey Haun

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for XBox

Student Presenter(s): Rye-ail Lewis

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Xbox

Student Presenter(s): Shane McCarthy

Faculty Mentor(s): Jane Machin

Honors Capstone Showcases: Poster Session 1

2:30 pm – 3:15 pm

Kyle 340

The Effects of Plantar Self- Myofascial Release on the Flex- Relax

Student Presenter(s): Kirbie Conner

Faculty Mentor(s): David Sallee

Honors Capstone Showcases: Poster Session 1

2:30 pm – 3:15 pm

Kyle 340

Changes in Torque with and without an Ankle Brace

Student Presenter(s): Haley Highsmith

Faculty Mentor(s): David Sallee

Student Workers' Gendered Communication at the Workplace: An Ethnographic study of Radford University Student Workers

Student Presenter(s): Grace Hurst

Faculty Mentor(s): Zehui Dai

Finding Fingerprints

Student Presenter(s): Emily Shelton

Faculty Mentor(s): Eric Snow

Student Choice in Reading

Student Presenter(s): Katrina Todd

Faculty Mentor(s): Kristan Morrison

Flood Model Risk in Dade County, FL

Student Presenter(s): Rand Bohnert

Faculty Mentor(s): Stockton Maxwell

Creative Communication

Student Presenter(s): Janelle Woods

Faculty Mentor(s): Jimmy Ward

Think beyond the box



**HONORS CAPSTONE
SHOWCASE 2022**
Honors Capstone Showcases: Oral Session 1

4:15 pm – 4:30 pm

Kyle 340

Things Not Said Aloud : American Female Confessional Poetry Tradition

Student Presenter(s): Emily Wheeler

Faculty Mentor(s): Sean Keck

Playing for Barry: Personal Narratives on Grief

Student Presenter(s): Kaitlyn Gorodnick

Faculty Mentor(s): Katie Garahan

Stress and Sociality: Exploring the Interface Between Sociality and Stress Response in a Captive Avian Population

Student Presenter(s): Peter Neville

Faculty Mentor(s): Jason Davis

How Curious are You: Effects of Curiosity on Learning

Student Presenter(s): Madison Presley

Faculty Mentor(s): Katie Arnold

Effects of Maternal Separation on Oxytocin Expression in Rats

Student Presenter(s): Lauren Seedlock

Faculty Mentor(s): Dayna Hayes

Honors Capstone Showcases: Poster Session 2

4:30 pm - 5:30 pm

Kyle 340

Gene Annotation of the Insulin Signaling Pathway in Model Organisms

Student Presenter(s): Isabella Armstrong

Faculty Mentor(s): Tara Pelletier

Impact of Mobility Dog Assistance on Gait Patterns

Student Presenter(s): Emma Bradley

Faculty Mentor(s): David Sallee

How Courts in Southwest Virginia are Responding to the Opioid Crisis

Student Presenter(s): Oak Brandshaw

Faculty Mentor(s): Allyson Yankle

Lean on Me: A Qualitative Exploration of Academic Peer Support Systems at Radford University

Student Presenter(s): Abby Fulop

Faculty Mentor(s): Stirling Barfield

Relating Gen Z's Distrust in Government to Racial Diversity

Student Presenter(s): Cali Jacobs

Faculty Mentor(s): Allison Wisecup

Radford University Brain Injury (RUBI) Center Needs Assessment

Student Presenter(s): Briana Litton

Faculty Mentor(s): Terry Shelor

Vestibulo- Ocular Reflex Testing of the Collegiate Athlete

Student Presenter(s): Louisa Peet

Faculty Mentor(s): Lauren Flora

The Impact of Nonverbal Behavior on Communicative Competence

Student Presenter(s): Meghan Stinnette

Faculty Mentor(s): Diane Millar

Honors Capstone Showcases: Oral Session 2

5:30 pm - 6:30 pm

Kyle 340

What's in your wallet?" A Survey of Federal Prosecution of Credit Card Schemes in Virginia and How Businesses Respond to the Challenge

Student Presenter(s): Courtney Streeby

Faculty Mentor(s): Robert Warren

Comparing Chromatography Methods for Quantitative Analysis of Epinephrine Degradation

Student Presenter(s): Rayshell Torres-Santana

Faculty Mentor(s): Kristina Stefaniak

Effects of Infant Maternal and Sibling Separation on Development in Rats

Student Presenter(s): Shane McClaferty

Faculty Mentor(s): Thomas Pierce

Honors Capstone Showcases: Oral Session 2

5:30 pm – 6:30 pm

Kyle 340

The Fragments of Me

Student Presenter(s): Kamaree Ward

Faculty Mentor(s): Sean Keck

Psychology and Gender Research Symposium 1

5:00 pm – 6:00 pm

Heth 014

A Qualitative Exploration of Motivation and Procrastination in College Students during COVID-19

Student Presenter(s): Asaijah Clements, Makyla Edmond, Shanel Henderson, Gracie McDonald, DeJah Wright

Faculty Mentor(s): Stirling Barfield

Strategic Learning: Testing and Feedback on Value-directed Remembering

Student Presenter(s): Ryan Taylor, Madison Presley

Faculty Mentor(s): Kathleen Arnold

The Effects Of Structure Building Ability On Essay-Enhanced Learning

Student Presenter(s): Hannah Benz, Saleena Lynch, Makayla Dulaney, Ryan Taylor

Faculty Mentor(s): Kathleen Arnold

Contribution of Psychological Factors on Predicting Academic Success in First Year College Women

Student Presenter(s): Katelynn LaCombe, Haley Cashwell, Abby Rutigliano

Faculty Mentor(s): Jeffery Aspelmeier, Ann Elliott

Ready or Not?: A Qualitative Exploration of the College Student Experience with Campus Related Mental Health Resources During the COVID-19 Pandemic.

Student Presenter(s): Alexander Altice, Ashley Frederiksen, Kyla Hughes, Kayla Owens, Amanda Radcliffe, Heavon Ratcliff, Abby Rutigliano, Olivia Spencer, Kaylyn Wertz

Faculty Mentor(s): Stirling Barfield

"She's Hysterical!" The Diagnosis of Hysteria as a Representation of Misogyny and Misunderstanding During Ancient Greece, the Middle Ages, and the Early and Late Modern Period

Student Presenter(s): Brittney Gray, Caitlyn Thelen

Faculty Mentor(s): Ann Elliot

Casting a Long Shadow (in a Good Way): Jung's Legacy in Media

Student Presenter(s): Jacob Eirich

Faculty Mentor(s): Ann Elliott

Using the Zeitgeist Approach to Study the History of Psychology: Homosexuality as a Diagnosis in the DSM-I

Student Presenter(s): Amanda Pentiah, Hadley Brochu

Faculty Mentor(s): Ann Elliott

Alterations in Orexin Expression Following Cannabinoid Exposure in Rats

Student Presenter(s): Brooklynn Mulholland, Zoe Hannabass, Jewellen Adams

Faculty Mentor(s): Dayna Hayes, Pamela Jackson

Psychology and Gender Research Symposium 1

5:00 pm – 6:00 pm

Heth 014

Investigating Bias Towards People With Parasocial Relationships

Student Presenter(s): Hailey Scherer

Faculty Mentor(s): Nicole Iannone

What Was That Word? Investigating The Effects Of Positive, Negative, And Neutral Words On Working Memory Capacity

Student Presenter(s): Kera Ford

Faculty Mentor(s): Erin Kerfoot

The Relationship Between EEG Frequency Components and Reaction Time

Student Presenter(s): Kaylyn Wertz, Hannah Benz, Annemarie Giles, Talia Neal

Faculty Mentor(s): Thomas Pierce

Effect of Job Demands on Cardiovascular Health Outcomes

Student Presenter(s): Alyssa Bardin

Faculty Mentor(s): Jenessa Steele

Cross-Cultural Differences in Age Estimation and Age Bias

Student Presenter(s): Hannah Benz, Hailey Scherer, Gustavo Rodriguez

Faculty Mentor(s): Jenessa Steele

Illusion of Universality and Video Comments

Student Presenter(s): Tiange Dai

Faculty Mentor(s): Jenessa Steele

The Social Effects of Prenatal Exposure to Benzodiazepines in Adolescent Rats

Student Presenter(s): Raegan Forbes

Faculty Mentor(s): Jenessa Steele

P-O Fit And Its Role In Organizational Commitment And Employee Emotional Well-being: The Moderating Effect Of Mask Mandates

Student Presenter(s): John Lees

Faculty Mentor(s): Jenessa Steele

Intergenerational Inheritance of N-methyl-D-aspartate (NMDA) receptors alterations in the Brain of rats.

Student Presenter(s): Claudia Paniagua-Ugarte

Faculty Mentor(s): Jenessa Steele, Pamela Jackson, Dayna Hayes

Developmental Opportunities for Low-level Non-professional Employees in Manufacturing: A Research Proposal

Student Presenter(s): Christina Sanders

Faculty Mentor(s): Jenessa Steele

A Research Proposal Study on Curiosity and Learning Across the Lifespan

Student Presenter(s): Kaylyn Wertz

Faculty Mentor(s): Jenessa Steele

Psychology and Gender Research Symposium 1

5:00 pm – 6:00 pm Heth 014

A Qualitative Study on African American Males: The Impact of Stuttering in Educational Settings

Student Presenter(s): Becca Madgwick, Briana Barnett, Christian Worley

Faculty Mentor(s): Antonio Ellis

Psychology and Gender Research Symposium: Oral Session

6:00 pm – 6:30 pm Heth 022

RU Nurses-in-Training During Covid-19

Student Presenter(s): Kennedy Johnson, Coleman Gentry

Faculty Mentor(s): Nora Reilly

Psychology and Gender Research Symposium 2

6:15 pm – 7:15 pm Heth 014

William James and Pragmatism

Student Presenter(s): Kara Doughtie

Faculty Mentor(s): Ann Elliott

The First Female Presidents of The American Psychological Association: An Overview

Student Presenter(s): Phoebe Dubois, Hailey Scherer

Faculty Mentor(s): Ann Elliott

The Effect of Curiosity on Prior Knowledge and Learning

Student Presenter(s): Ryan Taylor, Madison Presley

Faculty Mentor(s): Kathleen Arnold

Testing Helps Everyone Learn: An Investigation of the Impact of Structure-Building on Learning from Testing and Feedback

Student Presenter(s): Kaylyn Wertz, Hannah Benz, MaKayla Dulaney

Faculty Mentor(s): Kathleen Arnold

Pluralistic Ignorance and COVID-19 Behaviors, Vaccination Confidence, and Mask Wearing

Student Presenter(s): Phoebe Dubois, Hailey Scherer, Tiange Dai, Mia Purcell

Faculty Mentor(s): Jeff Aspelmeier

Pluralistic Ignorance and Environmental Attitudes: The Moderating Role of Religiosity

Student Presenter(s): Mia Purcell, Tiange Dai

Faculty Mentor(s): Jeffery Aspelmeier

A Pandemic Platform: A Qualitative Exploration of College Students and Social Media Use During COVID-19

Student Presenter(s): Jocelyn Guerrero, Natalie Marcil, Alexis Shelor, Jaden Streeter,

Kayleigh Turner, Kaylyn Wertz

Faculty Mentor(s): Stirling Barfield

Psychology and Gender Research Symposium 2

6:15 pm – 7:15 pm

Heth 014

Psychology During Desegregation

Student Presenter(s): Tiange Dai

Faculty Mentor(s): Ann Elliott

Implicit Racial Bias & Disproportional Discipline Rates Within the K-12 System

Student Presenter(s): Talia Neal

Faculty Mentor(s): Ann Elliott

Chomsky's Criticisms of Skinner: A Catalyst of the Cognitive Revolution

Student Presenter(s): Ryan Taylor

Faculty Mentor(s): Ann Elliott

Development of a Potential Animal Model of Addison's Disease

Student Presenter(s): W. Joshua Peaden

Faculty Mentor(s): Dayna Hayes

The Effect of Mortality Saliency on FOMO and YOLO

Student Presenter(s): Phoebe Dubois

Faculty Mentor(s): Nicole Iannone

Effectiveness of MindMatters School Mental Health Program in Elementary Schools

Student Presenter(s): Ashley Tysinger

Faculty Mentor(s): Jennifer Mabry

Improving Caretaker Interactions Using the Montessori Approach: How Activities of Daily Living Impact Engagement, Affect, and Stress in Caretaker Interactions with Dementia Patients

Student Presenter(s): Hannah Benz

Faculty Mentor(s): Jenessa Steele

Social Media and Job Strain: The Moderating Effects of Social Media Usage on the Relationship Between Job Demands and Job Strain

Student Presenter(s): William Charnock

Faculty Mentor(s): Jenessa Steele

The Immersive Contact Hypothesis: Can Playing LGBTQ+ Video Games Reduce Transgender Bias?

Student Presenter(s): Jacob Eirich

Faculty Mentor(s): Jenessa Steele

COVID-19 Pandemic Impacts on Frontline Workers' Emotional Labor and Job Satisfaction

Student Presenter(s): Coleman Gentry

Faculty Mentor(s): Jenessa Steele

Family Supportive Supervisor Training and Work Family Conflict: The Moderating Effect of Family-Supportive Policies

Student Presenter(s): Kirsten Pack

Faculty Mentor(s): Jenessa Steele

Psychology and Gender Research Symposium 2
6:15 pm – 7:15 pm Heth 014

Impact Of Knowledge On Colonialism On Puerto Rican Mental Health
Student Presenter(s): Gustavo Rodriguez, Hannah Benz, Hailey Scherer
Faculty Mentor(s): Jenessa Steele

The Impact of Filters: Face Aging Technology and Death Salience
Student Presenter(s): Hailey Scherer, Hannah Benz
Faculty Mentor(s): Jenessa Steele

Imposter Feelings and Well-Being: The Roles of Needs Satisfaction, Curiosity, Cognitive Flexibility, and Personality
Student Presenter(s): Stephanie Annis, Allison Love, Ashley Nesmith, Calla Zane, Caitlyn Thelen, Emily Siebach
Faculty Mentor(s): Pei-Chun Tsai

Production Technology Showcase
5:30 pm – 7:00 pm Hemphill 1006

Faculty Mentor(s): Matthew R. Turner, West Bowers, and Michael J. Meindl

News Package
Student Presenter: Eloise Sumner

Public Service Announcement
Student Presenter: Hunter Grobosky

Special Effects Project
Student Presenter: Devin Turner

Special Effects Project
Student Presenter: Shawn Banks

Public Service Announcement
Student Presenter: Clay (James) Owens

This Lucky Life
Student Presenter: Madison Hillenberg

This Scary Life
Student Presenter: Nate Torrino

Short Film
Student Presenter: Makayla Stepnowski

Short Film
Student Presenter: Tyrese Hallums

Short Film
Student Presenter: Adam Cox

Innovations in Forensic Science
8:00 am – 9:50 am Heth 022

The Effect of Manner of Death on the Value of Imaging and Virtopsy in the Medical Examiner's Office

Student Presenter(s): Kaitlyn Edwards
Faculty Mentor(s): Donna Boyd

Advancements in Forensic Science Research and Their Implications for the Admissibility of Mitochondrial DNA Heteroplasmy in Court

Student Presenter(s): Cassandra Hash
Faculty Mentor(s): Donna Boyd

The Effect of Time Since Death on Forensic Reconstruction of Decedents in a Funerary Context

Student Presenter(s): Andrea Beverley
Faculty Mentor(s): Donna Boyd

Development of Forensic Nursing Standards

Student Presenter(s): Brittany Rakes
Faculty Mentor(s): Donna Boyd

Successful Collection of Fingerprints Through Tape Lifting

Student Presenter(s): Jonah Kennedy
Faculty Mentor(s): Donna Boyd

How Our View of Forensic Photography is Shaped by the Media

Student Presenter(s): Payton Folwer
Faculty Mentor(s): Donna Boyd

Environmental History Showcase
11:00 am – 11:50 am Heth 022

Environment and Justice: Zayandon Roud Dam, Iran

Student Presenter(s): Naomi Manns, William Dalrymple, Daniel Polen, Adam Harrison
Faculty Mentor(s): Brock Cutler

Environment and Justice: Deforestation in Brazil

Student Presenter(s): Gabriel Hessler, Andrew Peck, Madison Meade, Erin Patterson
Faculty Mentor(s): Brock Cutler

Environment and Justice: Three-Mile Island

Student Presenter(s): Cali Jacobs, William Carpender, Kelsey Lander, Cosmo Richmond
Faculty Mentor(s): Brock Cutler

Environmental Justice: Water Crisis in Flint, Michigan

Student Presenter(s): Daniela Rocha, Bryce Davis, Kasey Day, Aiden Hatch
Faculty Mentor(s): Brock Cutler

Exhibiting Ethics

11:00 am - 11:50 am Heth 016

When social justice issues become the theme of museum exhibitions, does this create ethical issues for the museum? Is it ethical to display the work of artists who have harmed other people? Join us for a discussion.

Student Presenter(s): Maichal Valentine, Heather Dawson, Ian Lupisella, Mina Hatami
Faculty Mentor(s): Roann Barris

Creative Writing in Place

1:00 pm - 1:50 pm Heth 022

Creative Writing on Place

Student Presenter(s): Casey Cockrum, Kaitlyn Gorodnick, Kris Martin, Emilee Reynolds, Sydney Smith
Faculty Mentor(s): Rick Van noy

Interdisciplinary Research Showcase

1:00 pm - 2:00 pm Center for the Sciences Lobby

Recovery of Fingerprints on Non-porous Hard Surfaces

Student Presenter(s): Lexi Cobb
Faculty Mentor(s): Eric Snow, Riane Bolin

Sustainable Fashion Practices of Himachal Pradesh

Student Presenter(s): Ryan Coleman
Faculty Mentor(s): Rebecca Dias

The Sexual Assault Continuum and The Reporting Process at Radford University

Student Presenter(s): Lauren Craddock
Faculty Mentor(s): Michele Ren

Records Recovery For The Christiansburg Institute

Student Presenter(s): Victoria Dean, Katie Bellomo, Aly Carneal, Dravon Mangum, Shaquan Jules
Faculty Mentor(s): Joanna Hunter

Analysis of E. coli Beta-Glucuronidase

Student Presenter(s): Ashton Ennis
Faculty Mentor(s): Kimberly Lane

A Survey on Sustainability

Student Presenter(s): Abbi Green, Amber Stovall, Erica Williams, Mandi Gills
Faculty Mentor(s): Josh Nease

The Ethics of Clean Water

Student Presenter(s): Gabrielle Spennacchio-Parker
Faculty Mentor(s): Heather Keith, Joe Wirgau

The Life from Death

Student Presenter(s): Gabriel Tieskotter
Faculty Mentor(s): Jamie Lau

Interdisciplinary Research Showcase

1:00 pm – 2:00 pm

Center for the Sciences Lobby

Imposter Feelings and Well-Being: The Roles of Needs Satisfaction, Curiosity, Cognitive Flexibility, and Personality

Student Presenter(s): Stephanie Annis, Allison Love, Ashley Nesmith, Calla Zane, Caitlyn Thelen, Emily Siebach

Faculty Mentor(s): Pei-Chun Tsai

Trends in Outdoor Spending

Student Presenter(s): Jeremy Armentrout

Faculty Mentor(s): Anja Whittington

Analyzing the Presence and Concentration of Airborne Microplastics Using Python and Photo Analysis Techniques

Student Presenter(s): Julia Buccola

Faculty Mentor(s): Rhett Herman

Blueberries as an Anti-Inflammatory: How do they Effect IL-6 in Mice Susceptible to Atherosclerosis?

Student Presenter(s): Leah Ellis

Faculty Mentor(s): Melissa Grim

Cybercrime with Focus on Youth

Student Presenter(s): Lauren Griffin

Faculty Mentor(s): Kyshawn Smith



Interdisciplinary Research Showcase

1:00 pm – 2:00 pm

Center for the Sciences Lobby

Examining Healthcare Experiences of African Americans in Rural Virginia

Student Presenter(s): Maia Grove

Faculty Mentor(s): Aysha Bodenhamer

Evaluating the Effectiveness of EF Coaching

Student Presenter(s): Skylar Gudmundsson

Faculty Mentor(s): Emily Dove, Jennifer Mabry

Eye Symbolism in Design

Student Presenter(s): Serena Keith

Faculty Mentor(s): Julie Temple

Flex Neck: An Examination of Cervical Spine Mobility in Relation to the Flex-Relax Cycle

Student Presenter(s): Skylar Roberson

Faculty Mentor(s): David Sallee

How to Effectively Manage a Halfway House

Student Presenter(s): Jayla Robinson

Faculty Mentor(s): Pam Richardson

21st Century Makerspacers for All

Student Presenter(s): Owen Tidd

Faculty Mentor(s): Margaret Carneal

Drone Pwn: Unmanned Aerial Systems Security

Student Presenter(s): Sam Williams, Wes Noffsinger

Faculty Mentor(s): Hwajung Lee

Music and Movement - How and Where Do They Meet?

Student Presenter(s): Meridythe Witt

Faculty Mentor(s): James Robey



During my experience as a highlander research rookie, I had the opportunity to focus on my critical thinking skills, analytical skills, and social skills. I have also learned the importance of networking with peers. There is an abundance of knowledge to gain when surrounded by other research rookies!

-Jayla R, Sophomore Criminal Justice Major

Interdisciplinary Research Showcase

1:00 pm – 2:00 pm

Center for the Sciences Lobby

Disparities in Healthcare Services for Black Women

Student Presenter(s): Shamani Jackson

Faculty Mentor(s): Matthias Naleppa

The Impact of College Students on Eastern Grey Squirrel Foraging Behavior

Student Presenter(s): Damaris Forkey

Faculty Mentor(s): Allison Wisecup

Mental Health In Southeast Asia

Student Presenter(s): Jeffrey Jenkins

Faculty Mentor(s): Paige Tan

Analysis Of Function Of Pottery Sherds Found At The Carroll Cabin Site

Student Presenter(s): Haley Osborne

Faculty Mentor(s): David Anderson

Unknown Object from The Carroll Cabin Site

Student Presenter(s): Tana Vance

Faculty Mentor(s): David Anderson

Discovering New Functions of Tortellini Bacteriophage

Student Presenter(s): Melissa Ifidzhen

Faculty Mentor(s): Amanda Raimer

Impact of Undergraduate Research on Student Engagement

Student Presenter(s): Riley Petroski

Faculty Mentor(s): Joe Wirgau

Geospatial Science Poster Session

1:00 pm – 2:00 pm

Reed Hall Artis Atrium

Relationship Between Land Use/Land Cover Trends and Flood Risk In Miami-Dade County

Student Presenter(s): Rand Bohnert

Faculty Mentor(s): Stockton Maxwell

Land Use and Land Cover Change Due to the Syrian Civil War in the Idlib Region

Student Presenter(s): Zachary Dolan

Faculty Mentor(s): Stockton Maxwell

Power Outage Prediction in Southwest Virginia

Student Presenter(s): Jeremy Meraz

Faculty Mentor(s): Stockton Maxwell

Wetland Importance in Coastal Virginia

Student Presenter(s): Andrew Will

Faculty Mentor(s): Stockton Maxwell

Geospatial Science Poster Session

1:00 pm – 2:00 pm

Reed Hall Artis Atrium

How Peru's Highway 30C Affects Deforestation in the State of Madre de Dios

Student Presenter(s): Andrew Richmond

Faculty Mentor(s): Stockton Maxwell

Habitat Suitability Model on Common Brass Buttons in California

Student Presenter(s): Erin Rittenhouse

Faculty Mentor(s): Stockton Maxwell

More Than Controlling A River

Student Presenter(s): Patrick Schrader

Faculty Mentor(s): Richard Maxwell

Comparing Hurricane Katrina and Hurricane Ida Using Change Detection Analysis

Student Presenter(s): Baylor Godfrey

Faculty Mentor(s): Stockton Maxwell

Investigating Deer-Vehicle Collisions in Southwest Virginia using a Habitat Sustainability Model and Collision Data

Student Presenter(s): Bruce DeMars

Faculty Mentor(s): Stockton Maxwell

New Beginnings in Modern Art

2:00 pm – 2:50 pm

Heth 022

When did modernism begin in art? Can we point to a particular art work or event as the start of modernism?

Student Presenter(s): Makayla Brooks, Allison Cooper, Heather Dawson, Gracie Hogan, Bryce Holland, Christopher Piper, Cal Reiter, Emma Stamper, Zach Stone, Maichal Valentine

Faculty Mentor(s): Roann Barris

Preparing to Teach Diverse Women Writers in Hostile Times

4:00 pm – 5:15 pm

Heth 022

Preparing to Teach Diverse Women Writers in Hostile Times

Student Presenter(s): Samantha Conner, Colton Heitzman-Breen, Hannah Kennedy, Jamie Morgan, Kali Smith, Summer Speach

Faculty Mentor(s): Michele Ren

Arctic Geophysics Oral Session

6:00 pm – 9:30 pm

Center for the Sciences Planetarium

Analyzing the Presence and Concentration of Airborne Microplastics Using Python and Photo Analysis Techniques

Student Presenter(s): Julia Buccola

Faculty Mentor(s): Rhett Herman

Exploring the Ever Changing Conditions of Arctic Sea Ice

Student Presenter(s): Logan Dovidio

Faculty Mentor(s): Rhett Herman

Arctic Geophysics Oral Session

6:00 pm – 9:30 pm

Center for the Sciences Planetarium

Cryoseismic Study of the Arctic Sea Ice

Student Presenter(s): Jonathan Halferty

Faculty Mentor(s): Rhett Herman

Observation of Arctic Sea Ice's Boundary Layer at Surface Level

Student Presenter(s): Julian Miller

Faculty Mentor(s): Rhett Herman

Water Pressure of the Arctic Sea Ice and Sea Level Changes

Student Presenter(s): Deanna Perales

Faculty Mentor(s): Rhett Herman

The Effect of Water Velocity on Water Turbidity Under Alaskan Sea Ice

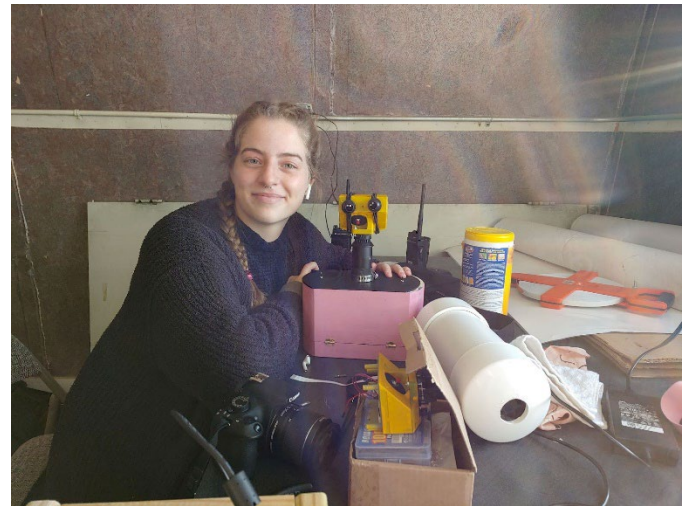
Student Presenter(s): Grace Psenicska

Faculty Mentor(s): Rhett Herman

Arctic Atmospheric Diode Laser-Based Particle Detector

Student Presenter(s): Sami Reitz

Faculty Mentor(s): Rhett Herman



Arctic Geophysics Oral Session

6:00 pm – 9:30 pm

Center for the Sciences Planetarium

Quantifying Environmental DNA in Arctic Sea Ice and Water Column

Student Presenter(s): Gabriella Richards

Faculty Mentor(s): Rhett Herman

Measuring Vertical Thermal Gradient of Arctic Sea Ice off the Coast of Utqiagvik, Alaska

Student Presenter(s): Jasmine Rollins

Faculty Mentor(s): Rhett Herman

The Effect of Terrain on Local Fluid Dynamics

Student Presenter(s): Nick Terehoff

Faculty Mentor(s): Rhett Herman

Measuring Flexural Strength of Sea Ice in the Field with a Homemade Apparatus

Student Presenter(s): Matthew White

Faculty Mentor(s): Rhett Herman

Correlation of Planetary Seismic Activity with Increased Frequency of Cryoseismic Activity and Acceleration of Anthropogenic Climate Change

Student Presenter(s): Samuel Williams

Faculty Mentor(s): Rhett Herman



Health and Human Performance Research Methods Showcase

12:30 pm – 1:45 pm

Kyle 340

Impact of 8-week Physical Activity Program Control on Glucose Control on Diabetic Patients

Student Presenter(s): Denesha Harris

Faculty Mentor(s): Melissa Grim

Do Structural Abnormalities Increase the Likelihood of a Labral Hip Tear Over Time?

Student Presenter(s): Siena Barnes

Faculty Mentor(s): Melissa Grim

Risks and Prevention of Falling Among Older Community Dwelling Adults

Student Presenter(s): Armonte Carter

Faculty Mentor(s): Melissa Grim

Impact of Helmet Designs and Shape on Concussions in High School Football Players

Student Presenter(s): Chasity Eacho-Cooper

Faculty Mentor(s): Melissa Grim

Impact of Hydration on Muscular Performance in Collegiate Wrestlers

Student Presenter(s): David Galloway

Faculty Mentor(s): Melissa Grim

Effects of Cognitive Function on NFL Players

Student Presenter(s): Casey Kramer

Faculty Mentor(s): Melissa Grim

The Effect of Olympic Weightlifting Shoes Versus Flat-soled Training Shoes on the Power Output of a Back Squat

Student Presenter(s): Joseph Majewicz

Faculty Mentor(s): Melissa Grim

Effectiveness of an Eight Week Healthy Eating Program vs an Eight Week Physical Activity Program in Reducing Body Composition in Children With Autism Spectrum Disorder

Student Presenter(s): Caroline Mullins

Faculty Mentor(s): Melissa Grim

Return on Investment for Athletic Trainers: A Correlative Analysis

Student Presenter(s): Kimani Parker

Faculty Mentor(s): Melissa Grim

Evaluation And Benefits Of Mindfulness-Based And Acceptance-Based Interventions Of College Student-Atheletes

Student Presenter(s): Jasmine Anderson

Faculty Mentor(s): Melissa Grim

Evaluation of a Mindfulness-Based and Acceptance-Based Intervention of College Student-Atheletes

Student Presenter(s): Jasmine Anderson

Faculty Mentor(s): Melissa Grim

Health and Human Performance Research Methods Showcase

12:30 pm – 1:45 pm

Kyle 340

Comparison of Therapeutic Interventions Overall Effectiveness in Rehabilitation of Stroke Patients

Student Presenter(s): Claudia Jordan

Faculty Mentor(s): Melissa Grim

What Non-Medicinal Treatment is Best for Fibromyalgia Pain

Student Presenter(s): Hannah Morris

Faculty Mentor(s): Melissa Grim

Impact of a Professional-Led Rehabilitation Program for Baseball Pitchers After SLAP Tear Repair

Student Presenter(s): Kaylee Roberts

Faculty Mentor(s): Melissa Grim

Efficacy of Non-pharmacological Treatment Versus Pharmacological Treatment of Chronic Migraines

Student Presenter(s): Tiffany Dobbins

Faculty Mentor(s): Melissa Grim

Chronic Traumatic Encephalopathy

Student Presenter(s): Kyle Acree

Faculty Mentor(s): Melissa Grim

Comparing and Evaluating the Influences That Contribute to Disordered Eating in Female Gymnasts Ages 14-18

Student Presenter(s): Julianne Albury

Faculty Mentor(s): Melissa Grim

Change in Bone Density in Collegiate Steeplechasers After a Competitive Season of Running the 3000m Steeplechase

Student Presenter(s): Kayland Bond

Faculty Mentor(s): Melissa Grim

Dry Needling Versus Manual Therapy: Which is More Effective in Reducing Myofascial Trigger Point Pain?

Student Presenter(s): Olivia Hanawalt

Faculty Mentor(s): Melissa Grim

Are Adolescent Athletes Who Have Previous ACL Tear at Greater Risk for ACL Tear than Adolescent Athletes Who Have Not Had a Previous ACL Tear?

Student Presenter(s): Nigeria Hooker

Faculty Mentor(s): Melissa Grim

Reducing Sudden Cardiac Arrest In Athletes

Student Presenter(s): Kajesha Taylor

Faculty Mentor(s): Melissa Grim

Health and Human Performance Research Methods Showcase

12:30 pm – 1:45 pm

Kyle 340

Olympic Weightlifting vs Traditional Compound Lifts: Which is Better for Improving Athletic Performance?

Student Presenter(s): Matthew Roberts

Faculty Mentor(s): Melissa Grim

Impact of Mobility Dog Assistance on Gait Patterns

Student Presenter(s): Emma Bradley

Faculty Mentor(s): Melissa Grim

Comparing Recovery Time After Myositis Ossificans Surgery between Teens and Adult

Student Presenter(s): Rafael Laureano

Faculty Mentor(s): Melissa Grim

Effects Caffeinated Pre-workout has on Strength and Endurance in Female Strength Trainers

Student Presenter(s): Emily Moran

Faculty Mentor(s): Melissa Grim

Comparison of Recurring Shoulder Injuries Between Professional Football and Baseball Players

Student Presenter(s): Jalen Revell

Faculty Mentor(s): Melissa Grim

Effectiveness of Spinal Manipulation in the Treatment of Frequent Migraines

Student Presenter(s): Zachary Worthman

Faculty Mentor(s): Melissa Grim

The Impact of Injury Prevalence in Adaptive Athletes

Student Presenter(s): Cynthia Hinds

Faculty Mentor(s): Melissa Grim

Retired NFL Players Number and Severity of Concussions and the Risk for CTE

Student Presenter(s): Carter Mason

Faculty Mentor(s): Melissa Grim

Effect of Shoe Collar Height on Injury Risk

Student Presenter(s): Matthew Wall

Faculty Mentor(s): Melissa Grim

Impact of the COVID-19 Pandemic on the Mental Health of Female College Students

Student Presenter(s): Peyton Bailey

Faculty Mentor(s): Melissa Grim

Health and Human Performance Research Methods Showcase

2:00 pm – 3:15 pm

Kyle 340

The Effect of Prenatal Use of Selective Serotonin Reuptake Inhibitors on the Rate of Autism in Children

Student Presenter(s): Carly Griffith

Faculty Mentor(s): Melissa Grim

Training to Bend, Not to Break: An ACL Injury Prevention Training Program for Gymnasts

Student Presenter(s): Megan Hodges

Faculty Mentor(s): Melissa Grim

The Link Between Clinically Diagnosed Depression in Young Adults and a 6-week HIIT Program

Student Presenter(s): Anna Hopkins

Faculty Mentor(s): Melissa Grim

A Pilot Study: Body Weight Support Treadmill Training Effect on Trunk Control in Patients with Multiple Sclerosis

Student Presenter(s): Paige Hopkins

Faculty Mentor(s): Melissa Grim

Comparison of Pre and Post-Test Performance Indicators in NFL Players With ACL Tears

Student Presenter(s): Christian Storey

Faculty Mentor(s): Melissa Grim

Health and Human Performance Research Methods Showcase

3:30 pm – 4:45 pm

Kyle 340

The Effects of an 8-week Aerobic Training Program on Female Smokers Compared to Male Smokers

Student Presenter(s): Dylan Krantz

Faculty Mentor(s): Melissa Grim

Efficacy of Peer-Mediated Intervention Versus Traditional Support for Children Who Have Autism Spectrum Disorder.

Student Presenter(s): Jessica Powell

Faculty Mentor(s): Melissa Grim

The Long-Term Effects of an Achilles Tendon Tear in the National Basketball Association

Student Presenter(s): Kyuntya Ingram

Faculty Mentor(s): Melissa Grim

The Effectiveness of Preparticipation Screenings in Young Athletes

Student Presenter(s): Arlisha Boykins

Faculty Mentor(s): Melissa Grim

Identification Of Cognitive And Psychological Factors Associated With Concussion In NFL Players

Student Presenter(s): Hunter Howery

Faculty Mentor(s): Melissa Grim

The Factors of Anxiety in Transitioning College Students

Student Presenter(s): Phoenix Norris

Faculty Mentor(s): Melissa Grim

Health and Human Performance Research Methods Showcase

3:30 pm – 4:45 pm

Kyle 340

Comparison of Methods to Assess Long-term Changes on the Brain After Concussion

Student Presenter(s): Elizabeth Warren

Faculty Mentor(s): Melissa Grim

Prevalence of Dyslexia in Premature Versus Full Term Kindergarten Students

Student Presenter(s): Keidra Woodson

Faculty Mentor(s): Melissa Grim

Biomechanics Research Showcase

2:00 pm – 3:15 pm

Kyle 340

Flex Neck: An Examination of Cervical Spine Mobility in Relation to the Flex-Relax Cycle

Student Presenter(s): Skylar Roberson

Faculty Mentor(s): David Sallee

Shoulder Mobility and Posture

Student Presenter(s): Gracie Davis

Faculty Mentor(s): David Sallee

Comparison of Muscle Activation in the Flex Relax Cycle with Spinal Erector Activity in a Stacking Task

Student Presenter(s): Meredith Miles

Faculty Mentor(s): David Sallee

Gait Patterns and Postural Differences Between Non-Dancers and Dancers

Student Presenter(s): Lily Perkins

Faculty Mentor(s): David Sallee

The Impact of Knee Brace on Knee Torque

Student Presenter(s): Kennedy Thomas

Faculty Mentor(s): David Sallee

Biomechanics Research Showcase

3:30 pm – 4:45 pm

Kyle 340

Rolling Through Port De Bras

Student Presenter(s): Megan Hodges

Faculty Mentor(s): Laura Newsome, David Sallee

The Impact of Arch Taping on Arch Mechanics

Student Presenter(s): Rachel Bird

Faculty Mentor(s): David Sallee

The Effects of Self-Myofascial Release on the Flex-Relax Cycle

Student Presenter(s): Kirbie Conner

Faculty Mentor(s): David Sallee

The Effect of Myofascial Release by Foam Rolling on the Quads and Hamstrings During the Gait Cycle

Student Presenter(s): Tiffany Dobbins

Faculty Mentor(s): David Sallee

Biomechanics Research Showcase

3:30 pm – 4:45 pm

Kyle 340

Impact of Ankle Taping on Arch Mechanics

Student Presenter(s): Makayla Felts

Faculty Mentor(s): David Sallee

Muscle Activation in the Conventional and Sumo Deadlift in Advanced Weightlifters

Student Presenter(s): Regan Lynn

Faculty Mentor(s): David Sallee, Dr. Laura Newsome

An Examination Of The Impact Of Ankle Surgery In A Softball Athlete.

Student Presenter(s): Lauren Stuart

Faculty Mentor(s): David Sallee

Topics in Asian Art

2:00 pm – 3:15 pm

Heth 022

Students will present key issues surrounding early Art from India and China. Short presentations followed by group discussion and questions and answers.

Student Presenter(s): Pigeon Burns, Jake Conner, Sofia Grochowski, Elija Hilliard, Tori McCary, Kevin Meredith, Kathryn Pond, Kayla Walker

Faculty Mentor(s): Carlee Bradbury

Creativity and Innovation Poster Session 2

2:00 pm – 3:15 pm

Kyle 340

How Might We Reduce Fast Fashion Waste?

Student Presenter(s): Eileen Barton, Sierra Brown, Skylar Brown, Arianna White

Faculty Mentor(s): Jane Machin

How Might We Reduce Student Debt?

Student Presenter(s): Levi China, Kent Clark

Faculty Mentor(s): Jane Machin

How Might We Improve Actor Mental Health?

Student Presenter(s): Eli Ayers, Reed Boschen

Faculty Mentor(s): Jane Machin

How Might We Reduce Infant Hot Car Deaths?

Student Presenter(s): Allison Faulkner

Faculty Mentor(s): Jane Machin

How Might We Help Stressed Students Succeed?

Student Presenter(s): Brenston Furr

Faculty Mentor(s): Jane Machin

How Might We Reduce Imposter Syndrome?

Student Presenter(s): Semra Mengistu

Faculty Mentor(s): Jane Machin

How Might We Improve Student Food Literacy?

Student Presenter(s): Stephen Semones

Faculty Mentor(s): Jane Machin

Creativity and Innovation Poster Session 2

2:00 pm – 3:15 pm

Kyle 340

How Might We Reduce Educational Inequality

Student Presenter(s): Casey Tiernan

Faculty Mentor(s): Jane Machin

How Might We Improve Student Mental Health?

Student Presenter(s): Leila Hamze, Tyler Jackson

Faculty Mentor(s): Jane Machin

How Might We Improve Retention of BIPOC Students?

Student Presenter(s): Jessica Rose, Demarius Thornton

Faculty Mentor(s): Jane Machin

How Might We Help Sick Students Succeed Academically?

Student Presenter(s): Marissa Gillenwater, Dylan Vincent

Faculty Mentor(s): Jane Machin

Criminal Justice Poster Session 2

2:00 pm – 3:15 pm

Kyle 340

The Approaches To Proactive Policing

Student Presenter(s): Jacob Cornelius

Faculty Mentor(s): Eric Snow

Gun Control Laws

Student Presenter(s): Karson Hawkins

Faculty Mentor(s): Eric Snow

Probation Reform

Student Presenter(s): Taylor Jamison

Faculty Mentor(s): Eric Snow

Prison Overcrowding

Student Presenter(s): DaniJo Neuman

Faculty Mentor(s): Eric Snow

The Reliability of Eyewitness Testimony

Student Presenter(s): Hannah Simpkins

Faculty Mentor(s): Eric Snow

Solitary Confinement

Student Presenter(s): Kasey Tolley

Faculty Mentor(s): Eric Snow

The Opioid Crisis

Student Presenter(s): Sarah Vinter

Faculty Mentor(s): Eric Snow

School Shootings

Student Presenter(s): Hailey Flowers
Faculty Mentor(s): Eric Snow

Criminal Justice Poster Session 2

2:00 pm - 3:15 pm Kyle 340

Body-Worn Cameras

Student Presenter(s): Sadie Gallagher
Faculty Mentor(s): Eric Snow

Sexual Assault

Student Presenter(s): Nicole Odvina
Faculty Mentor(s): Eric Snow

The Opioid Crisis

Student Presenter(s): Brianna Parker
Faculty Mentor(s): Eric Snow

Alternatives to Juvenile Incarceration

Student Presenter(s): Rachel Silverman
Faculty Mentor(s): Eric Snow

Individuals Incarcerated For Crimes They Did Not Commit

Student Presenter(s): Ariel Beltran
Faculty Mentor(s): Eric Snow

Juvenile justice

Student Presenter(s): Luis Martinez
Faculty Mentor(s): Eric Snow

Theft and Burglary of Firearms from Vehicles and Residences: Translating Research to Practice

Student Presenter(s): Dana Ours
Faculty Mentor(s): Rachel Santos

Advertising Strategy Poster Session 2

3:30 pm - 4:45 pm Kyle 340

Brand Positioning, Marketing Communications and Media Plan for Tide

Student Presenter(s): Christian Sims
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Colgate

Student Presenter(s): Morgan Kleene
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for CeraVe

Student Presenter(s): Maddie Davis
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Reed Smith Guitars

Student Presenter(s): Alyssa Brown
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Starbucks

Student Presenter(s): Kendra Johnston

Faculty Mentor(s): Jane Machin

Advertising Strategy Poster Session 2

3:30 pm – 4:45 pm Kyle 340

Brand Positioning, Marketing Communications and Media Plan for Chewy

Student Presenter(s): Olivia Wright

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Doritos

Student Presenter(s): Elijah Dunford

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Pringles

Student Presenter(s): Katey Fruehauf

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Adidas

Student Presenter(s): Hunter Fasold

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for New Balance

Student Presenter(s): Kevin Ward

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Dr. Pepper

Student Presenter(s): Esperanza Almeda

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Pepsi

Student Presenter(s): Haley Holt

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Gatorade

Student Presenter(s): Tyler Hull

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Coca Cola

Student Presenter(s): Helu Markos

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Apple

Student Presenter(s): Evelyn Melvin

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Alexa

Student Presenter(s): Karsen Powers

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Garmin

Student Presenter(s): Parker Heptinstall

Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Stihl

Student Presenter(s): Kyle Dant

Faculty Mentor(s): Jane Machin

Interdisciplinary Oral Presentations

3:30 pm – 5:00 pm Heth 022

Exploring Athletic Identity, Major Choice, and Career Aspiration Among College Athletes

Student Presenter(s): Benjamin Pinckney

Faculty Mentor(s): Tiesha Martin

Preserving Black Graves in Southwest Virginia Through Grant Writing

Student Presenter(s): Tyanna Davis, Nykira Taylor, Anderson Bonilla Ramirez, Jamar Banks, Eva Waddell

Faculty Mentor(s): Joanna Hunter

Digitizing Local History: Ernest Balarzs

Student Presenter(s): Katelin Hobbs, Michael Murn, Demiah Smith

Faculty Mentor(s): Matthew Oyos

Drone Pwn: Unmanned Arial Systems Security

Student Presenter(s): Sam Williams, Wes Noffsinger

Faculty Mentor(s): Hwajung Lee

Chemistry Oral Presentations

3:30 pm – 4:45 pm Hemphill 3016

The Determination of Metal, Enzyme, and Sugar Content in Pineapples

Student Presenter(s): Brandon Pitzer

Faculty Mentor(s): Cindy Burkhardt

Exploring Laccase and Its Involvement in the Degradation of Antibiotics

Student Presenter(s): Benjamin Dearborn

Faculty Mentor(s): Sarah Kennedy

Mountain Valley Pipelines Impact on the Water Chemistry of Surrounding Tributaries and Streams

Student Presenter(s): Patrick Galyean

Faculty Mentor(s): Kristina Stefaniak

Chemistry Poster Session

5:00 pm – 6:15 pm Center for the Sciences Lobby

Quantitation of Nicotine and Alkaloids in Tobacco

Student Presenter(s): Brooke Baumgarten

Faculty Mentor(s): Cindy Burkhardt

Molecular Orbital Study of a New Class of Large Cage Fullertube

Student Presenter(s): Kiersten Smith, Elizabeth Lee, Fiona Steinour

Faculty Mentor(s): Timothy Fuhrer

Analysis of E. coli β -Glucuronidase

Student Presenter(s): Ashton Ennis

Faculty Mentor(s): Kimberly Lane

Desymmetrization of a 1,2-diol with Chiral Ketones

Student Presenter(s): Keyvanta Watson

Faculty Mentor(s): Christopher Monceaux

Chemistry Poster Session

5:00 pm – 6:15 pm

Center for the Sciences Lobby

Investigation Of Organic Chemicals And Metals Found In The Roanoke River

Student Presenter(s): Dalia Jafar

Faculty Mentor(s): Kristina Stefaniak

Determining the Best Technique for Quantifying Caffeine in Energy Drinks

Student Presenter(s): Sirmion Jenerette

Faculty Mentor(s): Kristina Stefaniak

**Development of a Nano-Carbon Based Solid Acid Catalyst
for use in Esterification Reactions**

Student Presenter(s): Dorian Custer

Faculty Mentor(s): Francis Webster

**Multicomponent Layer-by-Layer Films of Nano-Carbon/Titanium Dioxide/Chitosan as a
Platform for Photocatalysis**

Student Presenter(s): Drew Reavis

Faculty Mentor(s): Francis Webster

**Nano-carbon/Tungsten Trioxide Nanoparticle Self-Assembled Films for the
Photocatalytic Degradation of Pollutants**

Student Presenter(s): Evan Wood

Faculty Mentor(s): Francis Webster

Biology Poster Session

5:00 pm – 6:15 pm

Center for the Sciences Lobby

**Orphaned vs. Adult Care for Eastern Gray Squirrels (*Sciurus carolinensis*) and Virginia
Opossums (*Didelphis virginiana*) at the Southwest Virginia Wildlife Center of Roanoke**

Student Presenter(s): Kendra Cattanach

Faculty Mentor(s): Karen Powers

**Secret Salamanders: Predicting Hidden Genetic Diversity in Salamanders Using
Geographic, Climatic, and Life History Traits**

Student Presenter(s): Abbi Green

Faculty Mentor(s): Tara Pelletier

Use of HepaRG Cells as an Experimental Model to Study Human Cytochrome P450s

Student Presenter(s): Affiba M Beke, Camryn Williford

Faculty Mentor(s): Peter Christmas

**Using Unmanned Aerial Systems to Map a Stream Ecosystem Affected by the Mountain
Valley Pipeline**

Student Presenter(s): Mandi Gills

Faculty Mentor(s): Jamie Lau, Matt White, George
Stephenson

Green or Greenwashing?: A look into the Life Cycle of the Polylactic Acid Utensils Used At Radford

Student Presenter(s): Alayna Carter

Faculty Mentor(s): Jamie Lau, Sarah Kennedy

Biology Poster Session

5:00 pm – 6:15 pm

Center for the Sciences Lobby

The Toxicity In Phage Genomes

Student Presenter(s): Derrick Sutton, Damaris Forkey

Faculty Mentor(s): Tara Pelletier

Effect Of Aspect On Bird-Window Collision Rates At Radford University

Student Presenter(s): Acalia Carter-Martin

Faculty Mentor(s): Karen Powers

Seasonal Surveys of Resident Bird Communities Around High-Impact Bird Collision Sites on Campus

Student Presenter(s): Damaris Forkey, Alyssa Dean

Faculty Mentor(s): Karen Powers

Techniques and Trends in Aging Carcasses of Bird-window Collisions in the New River Valley

Student Presenter(s): Savannah Lancaster, Rebecca Salen

Faculty Mentor(s): Karen Powers

Lyme Disease in Dogs and Trends in Positivity at a Local Animal Clinic

Student Presenter(s): Kayla Wines

Faculty Mentor(s): Karen Powers

Equine Rehabilitation at J&L Animal Rescue

Student Presenter(s): Bianca Plowman

Faculty Mentor(s): Karen Powers

Discovery of Genetic Functions in Bacteriophage Tortellini

Student Presenter(s): Emma Hendrix

Faculty Mentor(s): Amanda Raimer

Eastern Box Turtles Rehabilitation: Aliments, Treatments, and Success Rates

Student Presenter(s): Jadelyn Smith

Faculty Mentor(s): Karen Powers

Flash Talks

6:00 pm – 6:50 pm

Center for the Sciences M073

Is the Power of Nature the New Cure?

Student Presenter(s): Cynthia Alfaro

Faculty Mentor(s): Christine Small

If Your Mouth Doesn't Say It, Your Biopsy Will

Student Presenter(s): Kalia Beard

Faculty Mentor(s): Christine Small

Are Your Hands Clean?

Student Presenter(s): Alannah Bratten

Faculty Mentor(s): Christine Small

Bundles of Atoms and Energy

Student Presenter(s): Gigi Burns

Faculty Mentor(s): Christine Small

RU Dining: Green or Greenwashing?

Student Presenter(s): Alayna Carter

Faculty Mentor(s): Christine Small

Buzz Off Conventional Farming

Student Presenter(s): Brian Currin

Faculty Mentor(s): Christine Small



Flash Talks

6:00 pm – 6:50 pm

Center for the Sciences M073

Manatees in Mayhem

Student Presenter(s): Miranda Fatum

Faculty Mentor(s): Christine Small

Ticked Off: Ectoparasites of the Allegheny Woodrat

Student Presenter(s): Sierra Felty

Faculty Mentor(s): Christine Small

Light's On, No One's Home: Effects of Human Interference on Glow Worm Populations

Student Presenter(s): Damaris Forkey

Faculty Mentor(s): Christine Small

Repairing Our Damage: The Role of Top Predator Reintroduction in Ecosystem Restoration

Student Presenter(s): Haley Howerin

Faculty Mentor(s): Christine Small

A Pint for You and A Pint for Gluten Sensitive Friends

Student Presenter(s): Katarina McCann

Faculty Mentor(s): Christine Small

Blue Light Never Says Goodnight

Student Presenter(s): Carolyn Ogle

Faculty Mentor(s): Christine Small

Love, Hormones, and Divorce

Student Presenter(s): Jannet Ortiz

Faculty Mentor(s): Christine Small

You are What You Eat: How Diet Influences the Powerful Gut Microbiome

Student Presenter(s): Sarah Sabbagh

Faculty Mentor(s): Christine Small

The MVP is Not the MVP: Pipeline Construction Dangers to Local Waterways

Student Presenter(s): Elise Simmons

Faculty Mentor(s): Christine Small

Whipple Surgery: Don't Let Whipple Whip You

Student Presenter(s): Hannah Stuart

Faculty Mentor(s): Christine Small

Fresh Fruit Friday: Genetics Edition

8:45 am – 10:00 am

Reed Hall Artis Lobby

Finding Gene Functions Within a Novel Bacteriophage Genome.

Student Presenters: Alexander McVicker, Andrew Cardenas, Elizabeth Burrell, Sydni Smith
Faculty Mentor(s): Amanda Raimer

Nicole21, Who is she?

Student Presenters: Hannah Tuberson, Emily Spingarn, Sierra Stephens, Acalia Carter-Martin
Faculty Mentor(s): Amanda Raimer

Annotation of the Bacteriophage Nicole_21 Using Bioinformatic Techniques

Student Presenters: Emma Hendrix, Janita Lyde, Jordan Lockhart, Aalyssa Litts
Faculty Mentor(s): Amanda Raimer

Nicole 21 and the Undiscovered Functions of its Genes

Student Presenters: Kendra Earls, Cathy Bruffy, Kendra Cattanach
Faculty Mentor(s): Amanda Raimer

Nicole21, Am I Legally a Gene?

Student Presenters: Bianca Plowman, Ella Lockhart, Genesis Carter, Annalisa Twum
Faculty Mentor(s): Amanda Raimer



Citizen-Leader Showcase

4:00 pm – 6:00 pm

Zoom: 92323579837 Password: SEF2022

Citizen Leader Dissemination

Student Presenters: Dakota Hirmer
Faculty Mentor(s): Jean Mistele

Old Church Gallery's Floyd Story Center: Migration Project Internship

Student Presenters: Russel Alvarez
Faculty Mentor(s): Melinda Wagner

Interdisciplinary Virtual Presentations

5:00 pm – 5:30 pm

Zoom: 92365562827 Password: SEF2022

Supporting Children's Thinking Through Higher Level of Questions

Student Presenters: Marlie Mendoza
Faculty Mentor(s): Boyoung Park

Training Parents on Shared Book Reading Using an Online Module

Student Presenters: Kate Mullins
Faculty Mentor(s): Mariam Abdelaziz, Lauren Flora

"Research has made me realize my passion for helping further change important social problems."
-Maia G, Junior Sociology Major



Social Entrepreneurship Student Success Challenge

11:00 am – 12:15 pm

McConnell Library

How Might We Reduce Costs for Students?

Student Presenters: Joanna Crowe, Reese Myers, Megan Reed
 Faculty Mentor(s): Samantha Steidle

How Might We Mobilize Resources to End Student Poverty?

Student Presenters: Brittney Bautista, Hannah Ferris, Maya Hickey,
 Riley Smith, Maia Grove
 Faculty Mentor(s): Samantha Steidle

How Might We Reduce Inequality for College Students?

Student Presenters: Kiley Lewis, Trace Robinson, Jacob
 Stevens, Hiwot Andargie, Nadira Walker
 Faculty Mentor(s): Samantha Steidle

How Might We Relieve Students of Mental Health Issues Caused by COVID-19?

Student Presenters: Bobby Dudeck, Channing Blevins, Levi Hylton,
 Adam Kamal
 Faculty Mentor(s): Samantha Steidle

How Might We Better Support Mental Health and Well-Being in College Students?

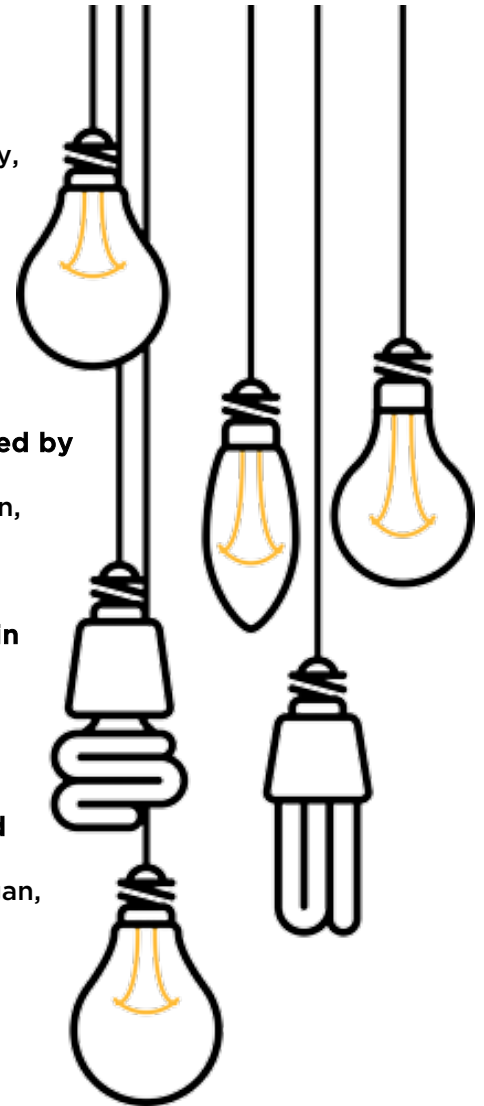
Student Presenters: Jordyn Keenan, Alison Stuedmann, June
 Stevens, Typer Jackson, Dylan Howard
 Faculty Mentor(s): Samantha Steidle

How Might We Find a Solution to Mental Health Issues Caused by Climate Change?

Student Presenters: Serenity Mitchell, Cade Johnson, Aidan Keegan,
 Eli Mitchell, Luke Taylor, Caitlin Guenther, Meghan Kozak
 Faculty Mentor(s): Samantha Steidle

How Might We Reduce Student Hunger?

Student Presenters: Jalen Booker, Alyssa Chapman, Danielle
 Montelbano, Cole O'Connor
 Faculty Mentor(s): Samantha Steidle



Social Entrepreneurship Student Success Challenge

2:00 pm – 3:15 pm

McConnell Library

How Might We Better Support the Mental Health of College Students?

Student Presenters: Brian Hurley, Julian Rivera, Joshua Thompson, Aiyana Lopez, Christopher Oliver, Cole Slack, Stephanie Perez, Emily Hirshorn, Kira Feemster

Faculty Mentor(s): Samantha Steidle

How Might We Reduce Financial Stress Students Experience While Attending Higher Education?

Student Presenters: Quinn Bloom, Keymonne Brown, Jacob O'Brien, Renee Manning, Devin Cheatwood, Megan Porter, Karly Slaysman, Rachel Doyle

Faculty Mentor(s): Samantha Steidle

How Might We Improve Mental Health for College Students?

Student Presenters: Sean Hair, Bilal Diggs, Kayla Edwards, Iana Mitchell, Luke Vest, Cannon Zylonis

Faculty Mentor(s): Samantha Steidle

How Might We address the student mental health crisis for college students?

Student Presenters: Brent Himko, George Rebh, Virginia Buchanan, Calvin Shipman, Matthew Harrison, Clara Regan, Matt Rupert

Faculty Mentor(s): Samantha Steidle

How Might We Better Support International Students?

Student Presenters: Yuri Yanagida

Faculty Mentor(s): Samantha Steidle

Making the Medieval Modern: Editing Chaucer Using Digital Manuscripts

Student Presenters: Caitlin Myers

Faculty Mentor(s): Frank Napolitano

Whose land is it Anways?

Student Presenters: Gabrielle Spennacchio-Parker, Kyla Huges, Chloe Murdaugh

Faculty Mentor(s): Joanna Hunter