32nd Annual Student Engagement Forum 2023

April 18-25th
32nd Annual Radford University Student Engagement Forum

Sunday, April 16th:
Honors Capstones 4:00 pm – 6:45 pm Kyle Hall 340

Tuesday, April 18th:
Medieval Art History Presentations 11:00 am – 12:15 pm Heth Hall 022
The Influence of Literature on Subsequent Art 12:00 pm – 1:50 pm McConnell Library Ross Art Gallery
Confessional Poetry in the Modern World 2:00 pm – 2:30 pm McConnell Library Ross Art Gallery
Asian Art History Presentations 2:00 pm – 3:15 pm Heth Hall 022
Interdisciplinary Oral Session I 4:00 pm – 4:50 pm Heth Hall 022
Psychology and Gender Research Poster Session 5:30 pm – 6:15 pm McConnell Library Ross Art Gallery
Production Technology Showcase 5:30 pm – 6:30 pm McConnell Library Ross Art Gallery

Wednesday, April 19th:
Native American Arts 9:00 am – 9:50 am McConnell Library Ross Art Gallery
Perspectives on World War II 10:00 am – 10:50 am McConnell Library Ross Art Gallery
Guitar in Composition: Adaptations in Technique and Instrumentation 11:00 am – 11:50 am McConnell Library Ross Art Gallery
The Art of Scientific Illustration to Enhance Anatomy & Physiology Education 10:50 am – 12:00 pm Reed Hall Artis Atrium
Interdisciplinary Oral Session II 12:00 pm – 12:50 pm McConnell Library Ross Art Gallery
Reclaiming Contemporary Art History 2:00 pm – 2:50 pm McConnell Library Ross Art Gallery
Health and Human Performance Research Posters 2:00 pm – 2:50 pm Heth Hall 014
Criminal Justice Poster Session 4:00 pm – 4:50 pm Heth Hall 014 & 016
Interdisciplinary Poster Session 4:00 pm – 4:50 pm Center for the Sciences Lobby

Thursday, April 20th:
Innovations in Forensic Science Oral Presentations 9:30 am – 11:50 pm Heth Hall 022
Geospatial Poster Session 12:00 pm – 1:15 pm Reed Hall Artis Atrium
Archaeological Research Methods Poster Session 2:00 pm – 3:15 pm Reed Hall Artis Atrium
Biology Poster Session 3:30 pm – 4:45 pm Center for the Sciences Lobby
Chemistry Oral Presentations 3:30 pm – 4:45 pm Center for the Sciences M070
Chemistry, Geology, Physics Poster Session 5:00 pm – 6:15 pm Center for the Sciences Lobby
Monday, April 24th:

Occupational Therapy Virtual Session
12:00 pm – 12:30 pm
Zoom: 91704443488
Password: OURS2023

Student Engagement Forum Coordinators in OURS
Joe Wirgau, Director
Jennifer McDonel, Associate Director
Keishaun Williams, Administrative Assistant
Abby Hardbower, Graduate Assistant
Kate Mullins, Graduate Assistant
Cora Burt, Executive Student Assistant
Leah Ellis, Executive Student Assistant
Abbi Green, Executive Student Assistant

The following individuals are acknowledged for their contributions:
Beth Johnson, Head of Access Services, Library
Jonathan Mayer, Manager, Printing Services
Evan Musgrave, University Photographer, University Relations
Norma Riggins, Event Planning Manager, University Services
Josh Wimmer, Supervisor, Printing Services
Emily Woods, Graphic Design Student
Welcome

It is with great pleasure I can say welcome to the 32nd Annual Radford University Student Engagement Forum! This is my tenth year having the privilege to support our student-faculty teams creating new knowledge across campus, in the local rivers, on stage, overseas, and wherever else our students’ boundless curiosity takes them. It is the best of Radford University on display over the course of the week of the “Forum” as many shorten the name across campus. We get to see the tangible results of our faculty’s high level of engagement with students, investing in them as future colleagues in various forms of experiential learning, research and creative inquiry. It is inspiring to see students rise to the occasion when given the chance for leadership roles, to represent the University and Departments with their work, and I hope you have the chance to talk with as many of the nearly 500 unique students delivering over 200 presentations while being mentored by nearly 100 faculty.

Every year I think it is important to acknowledge how difficult it is to work on these types of projects. I had a wonderful student in my office this week fairly lightheartedly explaining about some international data coding inconsistencies between countries’ data that hindered his results and how excited he was to continue the work next fall. The enthusiasm to get to the heart of his work was great. And I loved even more how he explained as his heart dropped when he realized his results were not statistically significant because of the data that his mentor said “it’s a miracle if your first attempt works” and validated his work, encouraged him to continue and normalized the experience. I still vividly remember the moment I realized a minor error had made three months of my work in graduate school worthless and I needed to start over, it is not easy and it helps to have a team of support. And we are now to my yearly thank you to our outstanding faculty who support our students, the roommates, classmates, family members, and everyone else who provides a safe space to vent, a shoulder to lean on, a word of encouragement and all the other small acts we do each day that makes this campus a better place for all of us. Thank you.

Equally difficult to creating new knowledge is for me to in a paragraph explain and capture how wonderful the team is in the Office of Undergraduate Research & Scholarship. All of the professional development on campus and research nationally speaks to the importance of having a person and purpose to what you do. In twenty years at Radford University and 10 years in OURS I have seen time and time again the transformative impact of undergraduate research, especially with new students. Being responsible for bringing that experience to students is a purpose I cherish and the people in OURS are extraordinary. I lean on the young people in the office for projects I don’t know how to accomplish and can have real impacts across campus. They never let me down, I am tearing up as I type this. Most days I burst into the office in Whitt (yes, I tend to burst in) and am met with Keishaun Williams’s smiling face. Keishaun is excellent on team building, checking in with everyone as they come in and that carries over to his extraordinary professional, positive and calm demeanor dealing with printing 300 posters in April, working on the budget closeout, getting SURF paperwork in order, closing out travel and providing a welcoming front of the house for OURS. I wish I could keep his steadiness and grace under stress. Dr. Jen McDonel, thank you for all of the help on details, deadlines, interviewing high school students, occasional song, and your ability to keep smiling and going throughout a difficult year. Dr. Jeanne Mekolichick continues to be a mentor to me and I am so much better at this job from her leadership, forever thankful for all that you do behind the scenes to support all of the work at OURS.
And now to refocus on the students who are central to everything we do. Our GAs, Abby Hardbower and Kate Mullins, have managed all of the odd jobs associated with running a conference with 600 students and faculty with grace and humor. It is not uncommon to hear laughter in the office, even on stressful days. I appreciate Abby taking time to teach and play daily puzzles with Keishaun and Kate leaving doodles on our white boards with messages of support. Leah Ellis, as our most experienced undergraduate student, is finishing her time with OURS after two incredible years. I could talk about specific accomplishments, and instead I just want to publicly state how incredibly reflective and thoughtful she is. Her ability to synthesize all types of data and interactions is as good as anyone I’ve ever met. Thank you for letting me pick your brain over and over again. Abbi Green, your smile never disappears no matter how complicated, serious, or frustrating the topic we are working through is. I have thrown graphic design, public relations, business analysis, coding, recruiting, and more at you starting as a new freshman. You’ve figured it all out and excelled at everything, even though you had no experience with most of it, please know there is nothing you cannot do in this world. Finally, our newest member Cora Burt who I had to find a way to hire, as she enjoyed the spirit and work of the office so much she was basically volunteering there by the end of her first semester at Radford. She’s another true believer in our mission and I am convinced would not be working with us without Leah and Abbi giving back to the next generation of researchers on campus. Cora has overhauled the OURS website and continues to produce a wide array of materials for the office in her first few months with us. I look forward to continuing to collaborate with her ideally for years and many more cups of tea at the end of an eclectic day. I know I can lean on every member of the team and I hope they feel the same way about me. Lastly, I’ve taken some recent quotes about what research means to our students to fill the space below. I hope you find it inspires you to become a researcher, deal with setbacks as part of the process and reaffirms your current efforts on our beautiful campus.

-With Highlander Pride, Joe Wirgau, Director of OURS

“Presenting allowed me to see that I should be confident in what I know and that I should embrace when I mess up and keep moving forward”

“Failure is not the end of a project nor an idea. Sometimes our research works out, sometimes it doesn’t, and that’s all part of the process. Each time we conduct research, we learn more about ourselves, too!”

“...taught me how to take setbacks and continuing pushing and moving forward.”

“My research made me realize what voices and experiences still need to be heard.”

“Research has molded me to be a more curious and observant student, one who’s not afraid to ask questions in class, and truly a researcher at heart.”
Dr. Jeff Aspelmeier Recognized with 2023 OURS Outstanding Mentor Award

It is with great excitement that the Office on Undergraduate Research & Scholarship (OURS) recognizes the pivotal role of faculty mentors in providing transformative learning opportunities to our students through undergraduate research and creative inquiry. The OURS Outstanding Mentor Award recognizes demonstrated excellence in mentoring and supporting undergraduate researchers through a commitment to student development, creating opportunities, dissemination, equity and inclusion, and career development.

Dr. Jeff Aspelmeier was selected by the OURS Advisory Committee for an OURS Outstanding Mentor Award based on student nominations. From the student nominations it was abundantly clear that Dr. Aspelmeier has a profound impact on his research students in the Department of Psychology, forming a “team dynamic” among his mentees. “Dr. Aspelmeier wants to create an inclusive environment and show that research and academia is for anyone and everyone.”

Congratulations to Dr. Jeffery Aspelmeier on behalf of Radford University for providing inclusive and transformational research experiences for our Psychology students.

“Dr. Aspelmeier helps me grow my experience and knowledge, all to make my time at Radford worthwhile... I will truly cherish my mentee relationship with him, and know it is one of the greatest things to come out of my time at Radford University.”
-Brittle Williams

Previous Winners:

2022
Dr. Chet Bhatta, Department of Biology
Dr. David Sallee, Department of Health and Human Performance

2021
Dr. Sarah Foltz, Department of Biology
Dr. Maggie Pate, Department of Criminal Justice
James Robey Recognized with 2023 OURS Outstanding Mentor Award

It is with great excitement that the Office on Undergraduate Research & Scholarship (OURS) recognizes the pivotal role of faculty mentors in providing transformative learning opportunities to our students through undergraduate research and creative inquiry. The OURS Outstanding Mentor Award recognizes demonstrated excellence in mentoring and supporting undergraduate researchers through a commitment to student development, creating opportunities, dissemination, equity and inclusion, and career development.

Professor James Robey was selected by the OURS Advisory Committee for an OURS Outstanding Mentor Award based on student nominations. From the student nominations it was abundantly clear that Professor Robey has a profound impact upon students within the Department of Dance at Radford University. James “encourages his students to become better dancers, educators, and choreographers.” Professor Robey has worked with the Department of Music on multiple performances to develop choreography and create unique experiences for all of his students.

Congratulations to Professor James Robey on behalf of Radford University for providing incredible research experiences for our students!

“Professor Robey is very generous and willing to provide resources for the knowledge necessary to complete my project. He constantly works to accelerate my career development by using his previous research to guide by example. Professor Robey has offered me nothing but encouragement, empathy, and crucial resources to contribute to my academic success of today.”

-Meridythe Whitt

Previous Winners:

2022
Dr. Chet Bhatta, Department of Biology
Dr. David Sallee, Department of Health and Human Performance

2021
Dr. Sarah Foltz, Department of Biology
Dr. Maggie Pate, Department of Criminal Justice
Honors Capstone Showcase Poster Session I
4:00 pm - 4:45 pm  Kyle Hall 340

The British Pub: The Meaning of Food, and Changes amid Covid
Student Presenter(s): Jenna Mitchell
Faculty Mentor(s): Roby Page

Dyslexia, Learning Disabilities, and Struggling Readers: An Analysis of Variability in the Intervention Literature
Student Presenter(s): Nora Mills
Faculty Mentor(s): Eric Mesmer

Characterization of Xenophilic Metal Clusters
Student Presenter: Guy Fortney
Faculty Mentor(s): George Harakas

Exploration of Role and Function of School Psychologists through an Analysis of Job Descriptions
Student Presenter(s): Jeannie Tene
Faculty Mentor(s): Eric Mesmer

Using Mixed Methods to Develop a Relational Approach to Social Media Marketing
Student Presenter(s): Sydney Hopkins
Faculty Mentor(s): John Brummette, Sam Jennings

The Effect of a Sling on Balance and Gait
Student Presenter(s): Claire Martin
Faculty Mentor(s): Dave Sallee

‘The Impact of Arch Taping on Arch Mechanics and Lower Leg Muscle Activation
Student Presenter(s): Rachel Bird
Faculty Mentor(s): Dave Sallee

“La Ropa Sucia Se Lava En Casa”: A Qualitative Exploration of Mental Health Among Latino Undergraduate Students
Student Presenter(s): Michelle Valencia
Faculty Mentor(s): Stirling Barfield

A Dirty Planet: the Effect of Gut Microbiomes on Anthracite Metabolization
Student Presenter(s): Gabriel Hessler
Faculty Mentor(s): Jason Davis

AmeriCorps Benefiting All Ages
Student Presenter(s): Ally Brown
Faculty Mentor(s): Amanda Bozack

The Sky is the Limit
Student Presenter(s): Fallon Bursey
Faculty Mentor(s): Luke Liska

Honors Capstone Showcase Speaker Series
5:00 pm - 6:10 pm  Kyle Hall 320

The Sky is the Limit
Student Presenter(s): Fallon Bursey
Faculty Mentor(s): Luke Liska

The Effects of Various Bags on Arch Mechanics
Student Presenter(s): Brandi Clemons
Faculty Mentor(s): Laura Newsome

Challenges of the Conservation of Playing Cards as Art Objects
Student Presenter(s): Dan Tyler
Faculty Mentor(s): Carlee Bradbury
Honors Capstone Showcase Speaker Series
5:00 pm - 6:10 pm  Kyle Hall 320

Evaluation of Blunt Force Trauma Mechanism Interpretations Inferred From Skeletal Fracture Morphology and Patterning
Student Presenter(s): Tori Pate
Faculty Mentor(s): Donna Boyd

Marketing Mental Health: The Use of Mental Health Initiatives As A Branding Tool
Student Presenter(s): Stephanie Sheline
Faculty Mentor(s): Jane Manchin, John Brummette

Honors Capstone Showcase Poster Session II
6:00 pm - 6:45 pm  Kyle Hall 340

The Effect of Pregnancy on the Arch Mechanics of the Foot
Student Presenter(s): Katie Davison
Faculty Mentor(s): Laura Newsome

Influence of Vegetation Metrics in Bird-Window Collisions at Radford University
Student Presenter(s): Tori Raulerson
Faculty Mentor(s): Karen Powers

Things Not Said Aloud: American Female Confessional Poetry Tradition
Student Presenter(s): Emily Wheeler
Faculty Mentor(s): Sean Keck

The Radford University Student Body’s Readiness to Adopt a Vegetarian Eating Pattern
Student Presenter(s): Zachary Andrews
Faculty Mentor(s): Kathleen Poole

Gendered Social Knowledge: Women Report Lower Social Connectedness in Response to Novel Counter-Normative Information
Student Presenter(s): Olivia Smith
Faculty Mentor(s): Niels Christensen

Effects of Kinesiology Tape on Ehler’s Danlos Syndrome
Student Presenter(s): Trinity Haynes
Faculty Mentor(s): Dave Sallee

How to Fall
Student Presenter(s): Sarah Lambert
Faculty Mentor(s): Virginia Weisz

Filling in the Gaps with States of Emergencies
Student Presenter(s): Connor Harper
Faculty Mentor(s): Allyson Yankle

The Differences Between the Gastrocnemius and Soleus While Walking with Shoes on and Shoes off
Student Presenter(s): Kate Strong
Faculty Mentor(s): Dave Sallee

An Investigation on the Impact of Curiosity on the Testing Effect
Student Presenter(s): Grace Chaffin
Faculty Mentor(s): Katie Arnold
Medieval Art History Presentations
11:00 am – 12:15 pm   Heth Hall 022

Medieval Art History Presentations
Student Presenter(s): Sarah Ayuso, Nina DiPasquale, Nicole Edmonds, Kelli Fraley, QuiShon Gomez, Tori Hale, Hannah Higby, Elijah Hilliard, Lee Ingram, Anna Johnston, Maddison Kunkel, Maggie Lilly, Kenny Nguyen, Benjamin Owings, Addie Parcell, Jenna Repass, Courtney Stultz,

Faculty Mentor(s): Carlee Bradbury

The Influence of Literature on Subsequent Art
12:00 pm – 1:50 pm   McConnell Library Ross Art Gallery

The Influence of Literature on Subsequent Art
Student Presenter(s): Hilal Dagdevir, Phillip Lockey, Isaiah Joyner, Lakyn Ellis, Hilal Dagdevir, Madison Sowers, Sydnie Papenfuss, Cayden Guinther

Faculty Mentor(s): Peter Laws

Confessional Poetry in the Modern World
2:00 pm – 2:30 pm   McConnell Library Ross Art Gallery

Confessional Poetry in the Modern World: Instapoetry and Confessional Poetry
Student Presenter(s): Carli Wadas

Faculty Mentor(s): Sean Keck, Justine Jackson Stone

Asian Art History Presentations
2:00 pm – 3:15 pm   Heth Hall 022

Asian Art History Presentations
Student Presenter(s): Kiera Adens, Sarah Ayuso, Grace Carroll, Simon Carter, Anne Cassett, Marlet Castillo, Jake Conner, Jackson Fuhrer, Tori Hale, Bella Halko, Elizabeth Hamilton, Lee Ingram, Monica Jennings, Anna Johnston, Haylee Keck, Madeline Lane, Owen Lindsay, Sam Mazzrillo, Harley Reynolds, Arvid Rutledge, Nyland Smith, Davis Smith-Corbin, Awa Tapsoba, Liz Webb, LeAnna Whitlow

Faculty Mentor(s): Carlee Bradbury

Interdisciplinary Oral Session I
4:00 pm – 4:50 pm   Heth Hall 022

Marketing Mental Health: The Use Of Mental Health Initiatives As A Branding Tool
Student Presenter(s): Stephanie Sheline

Faculty Mentor(s): Jane Machin, John Brummette

Managing Consumer Expectations: A Values-driven and Strategic Issues Management Approach to Organizational Legitimacy
Student Presenter(s): Mercedes Loescher, Peyton Mills

Faculty Mentor(s): John Brummette

Psychology and Gender Research Poster Session
5:30 pm – 6:45 pm   Heth Hall 014 & 016

A Cross-Cultural Comparison: Psychometric Properties of the Fraboni Scale of Ageism
Student Presenter(s): Hannah Benz, Tiange Dai, Enriqueta Calderon

Faculty Mentor(s): Jenessa Steele, Kathleen Arnold, Thomas Pierce
Pluralistic Ignorance Within Abortion Attitudes: Does it Depend on Trimester of Abortion?
Student Presenter(s): Brett Bowman, Jamar Banks
Faculty Mentor(s): Jeffery Aspelmeier

Rat Ninja Warrior: The Impact of Sex
Student Presenter(s): Samaia Brown, Nora Mills, Sky Pollard, Ember Ward, Claudia Paniagua-Ugarte
Faculty Mentor(s): Dayna Hayes

Clinical Hypnosis: Historical Perspectives from 1773 to 1890
Student Presenter(s): Aaron Cain
Faculty Mentor(s): Ann Elliott

The Power of Well Being
Student Presenter(s): Rachel Cayton, Alexis Parker, Carolyne Browe
Faculty Mentor(s): Michaela Clark

40 Years Later: How the Civil Rights Movement Changed Research Ethics
Student Presenter(s): Amanda Chung
Faculty Mentor(s): Ann Elliot

Do Political Attitudes Moderate Pluralistic Ignorance in Environmental Attitudes?
Student Presenter(s): Kayla Clark, Spencer Wright
Faculty Mentor(s): Jeff Aspelmeier

Does Pluralistic Ignorance Within Academic Self-Efficacy Predict Academic Performance?
Student Presenter(s): Tiange Dai
Faculty Mentor(s): Jeffer Aspelmeier

Rat Ninja Warrior: The Impact of Reinforcer
Student Presenter(s): Khristine Hurst, Maddie Mays, Janae Palmer, Atlas Wray, Brooklynn Mulholland
Faculty Mentor(s): Dayna Hayes

Hitler and Nazism's Influence on Social Psychology Research
Student Presenter(s): Cheyenne James
Faculty Mentor(s): Ann Elliott

Suicidality and Suicide Prevention Among Older Adults
Student Presenter(s): Sara Johnson
Faculty Mentor(s): Ruth Riding-Malon

Pluralistic Ignorance Within Relationship Satisfaction: The Role of Self-esteem as the Moderator
Student Presenter(s): Halle Kozlowski, Bruna Capela
Faculty Mentor(s): Jeff Aspelmeier

Effects of Cannabinoid Antagonism on Sucrose Preference in Rats
Student Presenter(s): Brooklyn Mulholland, Claudia Paniagua-Ugarte, Jenna Blanchette, Shad Hannabass
Faculty Mentor(s): Matthew Eckard

Effects Of FAAH Inhibition on Anxiety-like Behavior in Rats
Student Presenter(s): Claudia Paniagua-Ugarte, Brooklyn Mulholland
Faculty Mentor(s): Matthew Eckard
Assessing the Effects of Ketamine on the Temporal Gene Expression of N-Methyl-D-Aspartate (NMDA) Receptors in the Brains of Rats
Student Presenter(s): Claudia Paniagua-Ugarte, Abi Naughton
Faculty Mentor(s): Dayna Hayes

Impact of Spirituality, Self-esteem, and Social Support on Well-being
Student Presenter(s): C’erra Rhodes, Qu’shad Petty, Marisa Sloan-Mercado, Lexi Brown
Faculty Mentor(s): Michaela Clark

Pluralistic Ignorance Within Attitudes Towards Environmentalism Moderated By the Individual’s View on Fairness
Student Presenter(s): Giovanni Ruiz, Makenzie Robinette
Faculty Mentor(s): Jeff Aspelmeier

Shell Shock to PTSD: A Brief History of The Effect of War on The Mind
Student Presenter(s): Emily Siebach, Allison Love
Faculty Mentor(s): Ann Elliott

The Interrelations of Sleep, Social Support, Self Esteem, and Well Being
Student Presenter(s): Dominique Tompkins, Carly Riggs, Maddie Mohler, Tasia
Faculty Mentor(s): Michaela Clark

Gender Differences in Hikers’ Attitudes and Experiences on the Appalachian Trail
Student Presenter(s): Robin Walker, Brittle Williams, Mason Starcher, Kelsey Wilson, Tiange Dai
Faculty Mentor(s): Jeffery Aspelmeier, Anja Whittington

Measuring Brain States of Curiosity Through Electroencephalography Signals
Student Presenter(s): Kaylyn Wertz, Hannah Benz, Brett Bowman, Jacklynn Jackson, Luke Reynolds
Faculty Mentor(s): Thomas Pierce, Katie Arnold, Jenessa Steele

Pluralistic Ignorance in Sexually Transmitted Infection (STI) Attitudes as Moderated by STI Knowledge and Condom Use Attitudes
Student Presenter(s): Kelsey Wilson, Brittle Williams
Faculty Mentor(s): Jeffery Aspelmeier

Applicability of Non-pharmacological Activities for Persons with Advanced Dementia
Student Presenter(s): Hannah Benz, Enriqueta Calderon, Jackson Ludwig, Angel McCleese, Emerson Mills, Kaylyn Wertz, Shyheim Woods, Michaela Clark
Faculty Mentor(s): Jenessa Steele

Daily Social Support Impacts the Link Between Stress and Physical Health
Student Presenter(s): Enriqueta Calderon
Faculty Mentor(s): Jenessa Steele

Exploring the Types of Coping Strategies Used by Currently Practicing EMS providers to Mitigate the Effects of Occupational Stressors
Student Presenter(s): Troy Stallard, Keagan Henegar, Jose Piriz, Bethany Mills, Ben Clark, Ethan Hoover, Hunter Rae
Faculty Mentor(s): Elliot Carhart

Perpetuated Microaggressions Within Professional Environments
Student Presenter(s): Aaron Gardner
Faculty Mentor(s): Ruth Riding-Malon
Production Technology Showcase
5:30 pm – 6:30 pm  Hemphill Hall 1006

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

Before the End
Student Presenter(s): Ameek Batth

This Scary Life
Student Presenter(s): Seth Carico

This Lucky Life
Student Presenter(s): Jessica Groft

This Scary Life
Student Presenter(s): Mitchel Hamm

Golden Decelt
Student Presenter(s): Madison Hillenberg

The Search for Spongy Downer
Student Presenter(s): Caleb Perdue

Prom Night
Student Presenter(s): Dorian Starr

This Lucky Life
Student Presenter(s): Nathan Starr

This Lucky Life
Student Presenter(s): Oliver Wahl
Native American Arts
9:00 am – 9:50 am  McConnell Library Ross Art Gallery

We have spent the semester exploring as many native cultures as possible, focusing on different geographic regions of the United States and Canada. Our preferred terminology for these artists is the phrase “Native American” rather than indigenous, and an indication of the tribe to which the artist belongs. The tribe is often more important as with older work, we may not have a record of the artist’s name. If Canadian, they are referred to as First Nations. The term project for this class included exploration and recreation of an object associated with a particular tribe. Each student has documented the process of attempting to make this object using materials and techniques that would have been used by the original tribal members, whenever possible.

Student Presenter(s): Elizabeth Henry, Doug Johnston, Sierra Kanak, Melanie Kenney, Olivia Miller, Brigitta Paulson, Suzanne Poirier

Faculty Mentor(s): Roann Barris

Perspectives on World War II
10:00 am – 10:50 am  McConnell Library Ross Art Gallery

Perspectives on World War II
Student Presenter(s): Wyatt Kirk, Justin Little, Zofia Witkowski

Faculty Mentor(s): Suzanne Ament

Guitar in Composition: Adaptations in Technique and Instrumentation
11:00 am – 11:50 am  McConnell Library Ross Art Gallery

Composer Presentation (John Dowland And José Luis Merlin)
Student Presenter(s): John Colgan

Faculty Mentor(s): Robert Trent

Presentation on Two Classical Guitar Pieces
Student Presenter(s): Anthony Del Grosso

Faculty Mentor(s): Robert Trent

Francesco Corbetta and the Baroque Guitar
Student Presenter(s): Nicholas Pool

Faculty Mentor(s): Robert Trent

The Art of Scientific Illustration to Enhance Anatomy & Physiology Education
10:50 am – 12:00 pm  Reed Hall Artis Atrium

Student Presenter(s): Sofia Stallard, Jessica Stevens

Faculty Mentor(s): Chet Bhatta

Interdisciplinary Oral Session II
12:00 pm – 12:50 pm  McConnell Library Ross Art Gallery

The Purpose of Freedom of Speech within the German Democracy
Student Presenter(s): Sean Mahan

Faculty Mentor(s): Paige Tan

Podcast
Student Presenter(s): Jodi Allen, Anthony Burnett, Devante Mosley

Faculty Mentor(s): Joanna Hunter

Black Mental Health at RU
Student Presenter(s): Tyanna Davis, Kaya Myers, Mia Scott

Faculty Mentor(s): Joanna Hunter
Reclaiming Contemporary Art History
2:00 pm – 2:50 pm McConnell Library Ross Art Gallery

Some historians argue against the influence of style categories and emphasize the individual goals of artists at taking precedence. Other historians argue that history has long favored certain genders and races and made it difficult for other individuals to be taken seriously in the art world. We broke with both of these traditions, attempting to study artists either in the context of styles or outside of those styles, not limiting our decisions to the best known and most familiar artists. Each student will be focusing on a different artist chosen for personal reasons. In some cases, a recreation of an art work will be included in the presentation; in other cases it will be a short power point presentation.

Student Presenter(s): Marlet Castillo, Mark Crittenden, Sophia Davis, Heather Dawson, Dylan Deluca, Ephraim Fitta, Niko Hargis, Dale Hayden, Rianna Henry, Tijon James, Maggie Lilly, Isabella Linkous, Tori McCary, Nora Murphy, Kenny Nguyen, Hannah Odum, Jacob Petty, Jason Petty, Hanna Phipps, Heidi Pinnix, Raven Showalter, Dan Tyler, Kortney Williams

Faculty Mentor(s): Roann Barris

Health and Human Performance Research Posters
2:00 pm – 2:50 pm Heth Hall 014

The Relationship Between Muscle Activities in Pre-activation
Student Presenter(s): Kristen Chick
Faculty Mentor(s): David Sallee

Leveraging Existing Transportation Networks to Improve Access to Exercise for Alzheimer's Patients in Southwestern Virginia
Student Presenter(s): Kristen Chick, Brandon Martin, Melayna Stone, Genevieve Valliere
Faculty Mentor(s): David Brock

Effects of Various Bags on Arch Mechanics
Student Presenter(s): Brandi Clemons, Katie Davison
Faculty Mentor(s): Laura Newsome

The Impact of Diaphragmatic Breathing on the Flex Relax Cycle in the Spine
Student Presenter(s): Rhonda Cook
Faculty Mentor(s): David Sallee

The Effect of Pregnancy on the Arch Mechanics of the Foot
Student Presenter(s): Katie Davison, Brandi Clemons
Faculty Mentor(s): Laura Newsome

The Impact of Ankle Mobility on Gait
Student Presenter(s): Jacqueline Dorsey
Faculty Mentor(s): David Sallee

Dietary Restricted Students: An Exploratory, Needs-based Assessment of Radford University's Dining Options
Student Presenter(s): Leah Ellis, Ashton Kincer, Kennedy Morse, Zachary Hostetetter
Faculty Mentor(s): David Brock

The Effects of a Peer-led Nutrition and Physical Activity Program on Clinical Competency and Nutrition Knowledge at Radford University
Student Presenter(s): Kaitlynn Fulcher, Elizabeth Fontana, Angel Wood, Zachary Andrews
Faculty Mentor(s): David Brock
Suicide Prevention in College Athletes: The Development of a Novel, Peer-led Surveillance and Support Program
Student Presenter(s): Wyatt Hage, Camryn Wilson, Jay Beck, Hallie Garrison
Faculty Mentor(s): David Brock

Strength Training and Early Onset Dementia: A Pilot to Explore the Impact on Cognitive Function
Student Presenter(s): Trinity Haynes, Emma Young, Coty Shelton, D’enicia Hall
Faculty Mentor(s): David Brock

An Investigation of the Impact of Narcolepsy Medication on Mechanics and Muscle Activation in Movement
Student Presenter(s): Kayleigh Heath
Faculty Mentor(s): David Sallee

Effects of Dietary Patterns on Mental Health and Attendance at a Mid-sized College Campus
Student Presenter(s): Dori Hicks, India Bagsby, Caitlyn Peters, Joel Songui
Faculty Mentor(s): David Brock

Implementing Sweden’s Försäkringskassan in Southwestern Virginia: A Pilot Study Examining the Impact on Mother and Infant Hospitalization Rates
Student Presenter(s): Nija Hunter, Kayleigh Heath, Morgan Pence, Tierra Banks
Faculty Mentor(s): David Brock

Analyzing Jump Squats
Student Presenter(s): Jordyn Johnson
Faculty Mentor(s): Laura Newsome

The Impact of Unstable Surfaces on Abdominal Muscle Activation
Student Presenter(s): Kelsey Moseley
Faculty Mentor(s): David Sallee

Student Engagement with The Center for Accessibility Services: An Exploratory Pilot Study to Assess Prevalence and Ecological Attributes
Student Presenter(s): Jordan Rozell, Cara Joseph, Ghyta Dorgbadzi, Mitchell Quinn
Faculty Mentor(s): David Brock

Impact of Pelvic Tilt on Arch Mechanics
Student Presenter(s): Kennedy Thomas
Faculty Mentor(s): David Sallee

The Impact of a Curated Social Media Experience on Eating Disorders in Young Women
Student Presenter(s): Kennedy Thomas, Mia Gilley, Kenleigh Gunter, Kennedy Dunnings
Faculty Mentor(s): David Brock

Contingency Management to Reduce the Prevalence of Binge-Drinking on Radford University’s Campus
Student Presenter(s): Emerie Edwards, Jacob Matheny, Rhonda Cook, Wayne Henry
Faculty Mentor(s): David Brock
Gender and Eyewitness Testimony
Student Presenter(s): Sara Allen, Carly Riggs, Hunter Nicodemus, Sarah Schafer
Faculty Mentor(s): Shawn Smith

Discrimination and the Death Penalty
Student Presenter(s): Hannah Foster, Isabelle Stephens, Hailey Rodriguez, Deangelo Nicholas, Ariana Carson
Faculty Mentor(s): Lori Elis

The Legalization of Marijuana
Student Presenter(s): Skyler Bailey, Noah York, Kenton Whitteker, Rachel Woolard, Ryan Linkous, Khari Rucker
Faculty Mentor(s): Lori Elis

Inequity of The Cash Bail System in America
Student Presenter(s): Ian Wilson, Adam Hamze, James Waller, III, Gavin Brown, Gabrielle Anrum, Kyle Blanchard
Faculty Mentor(s): Lori Elis

The Effects of Juvenile Waivers on Recidivism
Student Presenter(s): Mallory Rhodes, Kaylee Sloss, Walter Wouvala, Breyonia Needham, Jalisa Harris
Faculty Mentor(s): Lori Elis

Do an Individual's Characteristics Influence the Intent of Authorities to Search Them?
Student Presenter(s): Jazmia Glasgow
Faculty Mentor(s): Lori Elis

The Criminal Justice Systems Approach to Intimate Partner Violence
Student Presenter(s): Briana Brammer, Adrian Dalton, Allyson Gallagher, Riley Sharrett, Aniya McGill
Faculty Mentor(s): Lindsay Semprevivo

Salem Witch Trials
Student Presenter(s): Morgan Pepper, Elizabeth Wolf, Alexis Kidd, Eddie Nevgloski, Rebecca Ford
Faculty Mentor(s): Lindsay Semprevivo

Mental Health in Courts
Student Presenter(s): Alayna Thomas, Kyndall altamirano, Taylor Sarver, John Stinson, Isabella Atwell
Faculty Mentor(s): Lindsay Semprevivo

Mass Homicide: Case Profiles and Synthesis of Victim, Offender, and Place
Student Presenter(s): Grace Reynolds
Faculty Mentor(s): Rachel Santos

Impact of Drugs in Prison
Student Presenter(s): Annessah Ballou, Erika Anderson, E’Qwahjamere Tisdale, Geronimo Moleno
Faculty Mentor(s): Stacey Clifton
Solitary Confinement and Mental Health
Student Presenter(s): Natalie May, Jayla Robinson, Allison Sparks, Matthew Nasatka, Chance Morris
Faculty Mentor(s): Stacey Clifton

How Does the CSI Effect Influence the Juror’s Experience
Student Presenter(s): Bradley St.Clair, Jamori Harris, Liam Valvo, Summer Rowland, Aaliyah Hall
Faculty Mentor(s): Stacey Clifton

How does Police Training Influence Use of Force?
Student Presenter(s): Hannah Jancewicz, Nathan Swisher, Devyn Crisco, Ashely Davis
Faculty Mentor(s): Stacey Clifton

How Political Bias Affects Supreme Court Decisions Overtime
Student Presenter(s): I’yonah Cartwright, Daniel Huff, Zoe Higley, Landen Seiders
Faculty Mentor(s): Stacey Clifton

How Does Solitary Confinement Affect Prisoners With Depression/Anxiety?
Student Presenter(s): Lauren Markowski, Ashley Smith, Gabriel Belcher, Christopher Persaud
Faculty Mentor(s): Stacey Clifton

How Does the Population Difference of Rural Areas Compared to Urban Areas Affect Police Relations?
Student Presenter(s): Lexie Cobb, Hayden Gulsby, Walker Bourne, Quasym Cotto
Faculty Mentor(s): Stacey Clifton

How Does the Perception of Police Militarization Change With Generational Age?
Student Presenter(s): Crystal Parrish, Trena Garland, Deon Cooper, Jaxon Turner, William Dalrymple
Faculty Mentor(s): Stacey Clifton

Drugs and Violent Crime
Student Presenter(s): Cailin Johnson, Haley Lee, Marquis Brown, Jessica Valero-Molina
Faculty Mentor(s): Shawn Smith

The Effects of CPTED on New River Valley Schools
Student Presenter(s): Hannah Lynch, Jaxon Turner, Malik Robinson, Jessica Martinez, Chandler Heiser
Faculty Mentor(s): Shawn Smith

Safety Precautions on Radford Campus and the Effects it Has on Crime
Student Presenter(s): Cameryn Paczosa, Isabelle Mazariego, Madison Mays, James Denfeld, Sixto Rincon
Faculty Mentor(s): Shawn Smith

Are African Americans More Likely to be Victims of Excessive Force?
Student Presenter(s): Sophie Paspal, Grace Cleary, Lexie Roberts, Heaven Reyes, Cora Ciarcia, Sydney Monachelo
Faculty Mentor(s): Lori Elis
Defunding the Police
Student Presenter(s): Haley Goldin, Jacob McKinney, Sean Adkins, Jc Callaham, Alyssa Wilson
Faculty Mentor(s): Lindsay Semprevivo

Organized Crime- Prohibition
Student Presenter(s): Callahan Tully, Tori Reeves, Cameron Davison, Domonic Bourgeois, Alyssa Jamison
Faculty Mentor(s): Lindsay Semprevivo

How Does Incident Exposure Influence Police Mentality?
Student Presenter(s): Leah Shumate, Amanda Bishop, Kelby Edwards, Sixto Rincon
Faculty Mentor(s): Stacey Clifton

Finding Justice in Human Trafficking
Student Presenter(s): Kasey Lovelace, Haley morris, olivia cador, cadence willis, cheyenne pruitt
Faculty Mentor(s): Lindsay Semprevivo

Interdisciplinary Poster Session
4:00 pm – 4:50 pm  Heth Hall 014 & 016

Sex Estimation From the Scapula From a Contemporary US Population
Student Presenter(s): Hailey Argonis
Faculty Mentor(s): Cassudy Urista

Examining the Differences Between Public and Private Prisons
Student Presenter(s): Hayley Snow, Xavier Beard, Nate Shafer, Isabelle Mohl
Faculty Mentor(s): Stacey Clifton

Attitudes, Beliefs, and Self-reported Practices of Currently practicing EMS Providers Regarding Pediatric Occupant Restraint Techniques During Ambulance Transportation
Student Presenter(s): Rachel Horkey, Rosemary Lavelle, Benjamin Kolman, Eric Johnson, Logan Ashlin, Jordan Helton
Faculty Mentor(s): Elliot Carhart

James and Brown Family Collection
Student Presenter(s): Elizabeth Webb
Faculty Mentor(s): Sharon Hepburn

Filling In the Gaps With States of Emergencies
Student Presenter(s): Connor Harper
Faculty Mentor(s): Allyson Yankle

Examining Healthcare Experiences in the New River Valley
Student Presenter(s): Maia Grove
Faculty Mentor(s): Aysha Bodenhamer

Understanding the Black Identity Development in Primary School in the NRV
Student Presenter(s): Jeannie Tene, Abby Austin, Qu’Shaud Petty
Faculty Mentor(s): Joanna Hunter

The Impact of Overtourism on the Tourist Experience in Tennessee and Nevada, Research Findings
Student Presenter(s): Nicole Hankins
Faculty Mentor(s): Anita Zatori

Attitudes Towards Evidence-Based Practice Among Currently Practicing EMS Providers within the U.S.
Student Presenter(s): Brent McCarthy, Ethan Wright, Logan Klepal, Bailey Hager, Joseph Whitesell
Faculty Mentor(s): Elliot Carhart
Interdisciplinary Poster Session – Highlander Research Rookies
4:00 pm – 4:50 pm  Center for the Sciences Lobby

The Deceptiveness of Comorbidity: Investigating Comorbidity of Mental Health Diagnoses in Pediatric Clients
Student Presenter(s): Skylar Gudmundsson
Faculty Mentor(s): Emily Dove, Jennifer Mabry

Assessing the Role of Neuropeptide Y in Cannabinoid-Exposed Adolescent Rats
Student Presenter(s): Hayat Khan
Faculty Mentor(s): Dayna Hayes

To Be Faithful or Not to Be Faithful: The Impact of Religious Devotion on Immigrants’ Economic Success
Student Presenter(s): Owen Clark
Faculty Mentor(s): Petra Besenhard

Cybercrimes Committed Against Children
Student Presenter(s): Lauren Griffin
Faculty Mentor(s): Shawn Smith

Why The Stock Market?
Student Presenter(s): Charles Nickens
Faculty Mentor(s): Abhay Kaushik

Bats Abroad: Investigating Predictors of Global Phylogenetic Diversity in Bats
Student Presenter(s): Abbi Green
Faculty Mentor(s): Tara Pelletier

Music and Movement: How and Where do they Meet?
Student Presenter(s): Meridythe Witt
Faculty Mentor(s): James Robey
Interdisciplinary Poster Session – Highlander Research Rookies
4:00 pm – 4:50 pm Center for the Sciences Lobby

21st Century Makerspaces For All
Student Presenter(s): Owen Tidd
Faculty Mentor(s): Margaret Carneal

Quantifying Nicotine in Commercial E-cigarette Liquids
Student Presenter(s): Michaela Larkey-Mingle
Faculty Mentor(s): Kristina Stefaniak

Scoping Review on Music Therapy and the Mental Health of the African American Community
Student Presenter(s): Ashley Glover
Faculty Mentor(s): Sekyung Jang

Health Assessment; an Interprofessional Approach
Student Presenter(s): Kendra Munsey
Faculty Mentor(s): Virginia Weisz

Searching for the Sound: Questioning Usability of the Instrument Timbre Preference Test for Determining Vocal Timbre Preference
Student Presenter(s): Autumn Langlois
Faculty Mentor(s): Jennifer McDonel

The Impact of Intermediate Fasting on Mood
Student Presenter(s): Maggie Bower
Faculty Mentor(s): Melissa Grim

"Functional Foods": How Phytochemicals Combat Cellular Damage
Student Presenter(s): Leah Ellis
Faculty Mentor(s): Melissa Grim

Analyzing Jump Squats
Student Presenter(s): Jordyn Johnson
Faculty Mentor(s): Laura Newsome

An Investigation of Mechanics and Muscular Activation in Fencing
Student Presenter(s): Maxwell McCurdy
Faculty Mentor(s): David Sallee
Interdisciplinary Poster Session – Accelerated Research Opportunities
4:00 pm - 4:50 pm  Center for the Sciences Lobby

Native Trees at Glencoe Museum and the Mary Draper Ingles Trail
Student Presenter(s): Atlas Davies
Faculty Mentor(s): Christine Small

Beyond the Classroom: Workforce Readiness Through Experiential Learning
Student Presenter(s): Cora Burt
Faculty Mentor(s): Joe Wirgau

American Spiritualism: Hoaxes and History
Student Presenter(s): Bethany Pearsall
Faculty Mentor(s): Justine Jackson Stone

Walking in Stigmatized Shoes
Student Presenter(s): Joshua Shimp
Faculty Mentor(s): Jane Machin, Luke Liska

Anthropology And The Biomechanics Of Bipedal Locomotion
Student Presenter(s): Abigail Stuckey
Faculty Mentor(s): Cassidy Urista
Innovations in Forensic Science Oral Presentations
9:30 am - 11:50 am  Heth Hall 022

Bilateral Asymmetry in the Scapula between the Sexes
Student Presenter(s): Hailey Argonis
Faculty Mentor(s): Donna Boyd

Differentiating Sharp Force Trauma and Carnivore Scavenging Impacts on Bone
Student Presenter(s): Megan Brown
Faculty Mentor(s): Donna Boyd

The Effect of Household Chemicals on Sharp Force Trauma Cut Mark Visibility in Bone
Student Presenter(s): Kaitlyn Edwards
Faculty Mentor(s): Donna Boyd

The Effect of Carnivore Body Weight on Postmortem Scavenging and Human Bone Modifications
Student Presenter(s): Cameryn Paczosa
Faculty Mentor(s): Donna Boyd

Interobserver Error in Classifying Skeletal Fractures
Student Presenter(s): Summer Rowland
Faculty Mentor(s): Donna Boyd

The Effects of Fatal Blunt Force Trauma Soft Tissue Injury on Skeletal Fractures
Student Presenter(s): Kyasya Seams
Faculty Mentor(s): Donna Boyd

Diversity and Inclusion in Forensic Anthropology: Its Effects and Applications for the Future
Student Presenter(s): Jaila Woodbury
Faculty Mentor(s): Donna Boyd

Geospatial Poster Session
12:00 pm - 1:15 pm  Reed Hall Artis Atrium

Hazus Estimation of Potential Damage and Economic Loss from a 7.3M: A case of Blacksburg, Virginia
Student Presenter(s): Ben Ramsey
Faculty Mentor(s): Charles Manyara

Coastal Change Detection in Outer Banks, North Carolina
Student Presenter(s): Jared Cico
Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Assessing Wetland Health in Coastal Louisiana Using High-Resolution Satellite Imagery and Remote Sensing Indices
Student Presenter(s): Jonathan Antin
Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Determining the Best Method to Delineate Forest Boundaries Using Geospatial Technologies
Student Presenter(s): Christian Barnard
Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Predicted Sea Level Rise and Associated Damages in St. Augustine, Florida
Student Presenter(s): Levi Dalton
Faculty Mentor(s): Stockton Maxwell, Charles Manyara
Geospatial Poster Session
12:00 pm - 1:15 pm Reed Hall Artis Atrium

Shipwreck Prediction in the Gulf of Mexico
Student Presenter(s): Jacob Johnson
Faculty Mentor(s): Stockton Maxwell, Andrew Foy

Using FEMA’s Hazus to Model the Effects of Hurricane Hermine 2016 on Two Coastal Florida Communities
Student Presenter(s): Hannah Kocen
Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Correlation of the Location of CAFOs and the Concentration of Nitrogen and Phosphorous Pollution in Virginia Watersheds
Student Presenter(s): Claire Mitchell
Faculty Mentor(s): Stockton Maxwell

Climatic Impact on Red Spruce Trees in Southwest Virginia
Student Presenter(s): Mira Smith
Faculty Mentor(s): Stockton Maxwell

Simulating the Causes of the 1958 Lituya Bay Tsunami using FEMA’s HAZUS-MH
Student Presenter(s): Emily Spingarn
Faculty Mentor(s): Charles Manyara

An Ecological Prediction on the Spread of the Spotted Lanternfly
Student Presenter(s): Madigan Bright
Faculty Mentor(s): Stockton Maxwell, Andrew Foy

Detecting Wetland Transition in Duval County, Florida
Student Presenter(s): Ben Ramsey
Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Archaeological Research Methods Poster Session
2:00 pm - 3:15 pm Reed Hall Artis Atrium

Impact of Urbanization on the Environment in the Context of Climate Change
Student Presenter(s): Christian Barnard
Faculty Mentor(s): Naveen Joseph

Estimating Property Damage and Economic Loss using FEMA HAZUS, for Tampa Bay, Florida
Student Presenter(s): Christian Barnard
Faculty Mentor(s): Manyara Charles

Impacts of Dams on Land Use and Water Resources
Student Presenter(s): Ben Ramsey
Faculty Mentor(s): Naveen Joseph, Charles Manyara

Climate Response Analysis of Lirodendron tulipifera in Southwest Virginia
Student Presenter(s): Madigan Bright
Faculty Mentor(s): Stockton Maxwell

Looking at the Graveyard
Student Presenter(s): Jake Fox
Faculty Mentor(s): Jake Fox
Archaeological Research Methods Poster Session
2:00 pm – 3:15 pm  Reed Hall Artis Atrium

Written in Stone: What Can a Tombstone Tell Us About a Person’s Life?
Student Presenter(s): Hailey Linder, Kysaya Seams
Faculty Mentor(s): Jake Fox

The Dead Still Talk: What Can Gravestones Tell You About People?
Student Presenter(s): Sarah Mullis
Faculty Mentor(s): Jake Fox

An Analysis of Tombstone Styles in the New River Valley
Student Presenter(s): Louisa Paulson, Sarah Klein
Faculty Mentor(s): Jake Fox

Average Life Expectancy in Wytheville
Student Presenter(s): Logan Taylor
Faculty Mentor(s): Jake Fox

Gravestone Decorations Used by Early Floyd County Residents
Student Presenter(s): Grey Wheeler
Faculty Mentor(s): Jake Fox

Limestone, Shells, and Knotted Nets: A Study of Eastern Woodland Pottery Sherds
Student Presenter(s): Thrasher Whitehurst
Faculty Mentor(s): Jake Fox

Mortality Trends and Socioeconomic Changes Shown in Radford’s Cemeteries
Student Presenter(s): Zofia Witkowski
Faculty Mentor(s): Jason Fox

Biology Poster Session
3:30 pm – 4:45 pm  Center for the Sciences Lobby

Bugs and Bark: How Light, Temperature, and Bark Type Affect Boxelder Bug Density
Student Presenter(s): Brianna Aldridge, Myah Boyd, Sierra Benavidez
Faculty Mentor(s): Christine Small

Unusual Cases of Companion Animals at Natural Bridge Animal Hospital
Student Presenter(s): Catherine Bruffy
Faculty Mentor(s): Karen Powers

BilboSwaggeins and the DNA Ring: Journey to Annotate The Genome
Student Presenter(s): Sophie Cain, Gabrielle Bailey, Elias Vance
Faculty Mentor(s): Amanda Raimer

BilboSwaggeins: The Battle of the Five Phages
Student Presenter(s): Zachary Campbell, Christian Adkins, Alec Correa
Faculty Mentor(s): Amanda Raimer

The Effect of Disturbance on Sycamore Tree Size in Southwest Virginia
Student Presenter(s): McKenzie Cheynet, Morgan Cheynet, Emma Claire Seaney, Taylar Hackney
Faculty Mentor(s): Jamie Lau
Biology Poster Session
3:30 pm – 4:45 pm       Center for the Sciences Lobby

**Annotating the Novel Genome of Bacteriophage BilboSwaggins**
Student Presenter(s): Breonna Cox, Jack Koger, Caleb Smith, Acalia Carter-Martin
Faculty Mentor(s): Amanda Raimer

**Comparing Magnolia Leaf Dimensions Across Radford University’s Campus**
Student Presenter(s): Atlas Davies, Jenna Glebocki, Kiara Salvador, Amber Gordon
Faculty Mentor(s): Jamie Lau

**Predicting Redbud Fertility and Fecundity Using the Fruit Characteristics**
Student Presenter(s): Jadyn Dekle, Markus Betigheimer, Carson Jernigan, Jada Andrew, Jared Williams
Faculty Mentor(s): Jamie Lau

**What is the Difference Between Water Quality for On- and Off-campus Housing?**
Student Presenter(s): Lauren Griffin, Jonathan Antin, Nathaniel Kromkowski, Abby Rice, Justin Smith
Faculty Mentor(s): Jamie Lau

**Ectoparasites of American Robins (Turdus migratorius) at Radford University**
Student Presenter(s): Tessa Harmon, Liliana Dailey, Bianca Plowman
Faculty Mentor(s): Karen Powers, Robert Sheehy

**Cloning and Classification of Bacteriophage Genome**
Student Presenter(s): Emma Hendrix, Elizabeth Burrell, Emily Anderson
Faculty Mentor(s): Tara Pelletier, Amanda Raimer

**How Does Bittercress Patch Size Affect Flower Versus Leaf Density?**
Student Presenter(s): Miranda Howard, Contessa Haas, Angel McCleese, Allison Pitstick
Faculty Mentor(s): Christine Small

**Relating Fish Catch Per Unit Effort to Depth of Lure**
Student Presenter(s): Mariah Lineberry, Jayson Ashcraft, Janea Boyce
Faculty Mentor(s): Jamie Lau

**Take It or Leaf It: Effects of Group Size on the Number of Flowers in Persian Speedwell (Veronica persica) Plants**
Student Presenter(s): Sarah Mullis, Aerowen Bryant, JoJo Turcios, Maddie Mohler
Faculty Mentor(s): Christine Small

**Mapping the Spatial Distribution of Spring Flowers in Wildwood Park**
Student Presenter(s): Jackeline Nerro, Sara Johnson, Maliah Walker
Faculty Mentor(s): Jamie Lau

**The Fellowship of the Phage: Annotation of Bacteriophage BilboSwaggins**
Student Presenter(s): Will O’Neal, Sarah Ponce, Brooke Lampert
Faculty Mentor(s): Amanda Raimer

**Comparing the Spicebush Flower Bud Size Over Time**
Student Presenter(s): Jaylen Rosser, Chantal Chinchilla-Romero, Andrea Tobar Barreno, Carolyne Browe, Eryn Murphy
Faculty Mentor(s): Jamie Lau

**Comparing Mushroom Fruiting Body Coverage on Decayed Logs**
Student Presenter(s): Cara Rossmeisl, Kaley Hagan, Kayla Hudson, Raven Showalter
Faculty Mentor(s): Jamie Lau
32nd Student Engagement Forum  
April 20th

## Biology Poster Session
3:30 pm - 4:45 pm  
Center for the Sciences Lobby

**BilboSwaggins: An Unexpected Gene Annotation**  
Student Presenter(s): William Sadler, Gillian Linkous, Zoe Allen  
Faculty Mentor(s): Amanda Raimer

**Stability of the Physical Habitat in the Mill Creek Ecosystem Pre-pipeline Construction**  
Student Presenter(s): Jynna Harrell, Chantel Cook, Elise Simmons  
Faculty Mentor(s): Jamie Lau

**A Bug's Life: Box Elder Bug Group Size and Mating Behavior**  
Student Presenter(s): Hunter Schardt, Christian Cobbs, Wyatt NyfelerNseke  
Faculty Mentor(s): Christine Small

**Comparing the Spring Flower Diversity Over Time in Wildwood Park**  
Student Presenter(s): Sean Snead, Zion Ayer, Jacob Lehnen, Jasper Boyce  
Faculty Mentor(s): Jamie Lau

**Helicopter Seeds: Does Seed Size Affect Dispersal Distance Of Box-Elders Trees?**  
Student Presenter(s): William Viers, Ebenezer Mokreh, Damar Vaccianna  
Faculty Mentor(s): Christine Small

**Comparing Red Maple Tree Growth Between High and Low Traffic Areas**  
Student Presenter(s): Emilee Waldrop, Marissa Church, Alana Williams, Joshua Daggett, Chloe Brinkley  
Faculty Mentor(s): Jamie Lau

**Insects Working the Graveyard Shift: Comparing the Interior and Exterior Diversity**  
Student Presenter(s): Zoe Wetsel, Jack Cooper, Hilary Fangna, Sadie Stebbins, Summer Campbell  
Faculty Mentor(s): Jamie Lau

**CYP4F2 is a Potential New Marker to Assess Hepatotoxicity of Green Tea Extracts**  
Student Presenter(s): Camryn Williford, Bre Lane  
Faculty Mentor(s): Peter Christmas

**Big Grassy Bulbs, Why? A Look at Cluster and Crop Size in Onion Grass**  
Student Presenter(s): Michael Ziegenfus, Matt Post, Sam Sawyer, Nick Williams  
Faculty Mentor(s): Christine Small

**Heads in the Microscope: Describing the Diversity of Chironomidae in the Mill Creek Ecosystem**  
Student Presenter(s): Grace Turman  
Faculty Mentor(s): Jamie Lau

## Chemistry Oral Presentations
3:30 pm - 4:15 pm  
Center for the Sciences M070

**Synthesis of Fulvene-Derivatized Fullerenes**  
Student Presenter(s): Alyssa Jones, Kateri Schoettinger  
Faculty Mentor(s): Timothy Fuhrer

**The Correlation Between Chemistry Variables and Biodiversity in Streams**  
Student Presenter(s): Cole Presson  
Faculty Mentor(s): Kristina Stefaniak, Jamie Lau, Tara Pelletier
Chemistry Poster Session
5:00 pm – 6:15 pm  Center for the Sciences Lobby

Protein Analysis via Dynamic Light Scattering
Student Presenter(s): Conan Busic, Ashton Ennis
Faculty Mentor(s): Kimberly Lane

Mushroom-based Advanced Materials for the Remediation of Polluted Water
Student Presenter(s): Genesis Carter, Ariel Barber
Faculty Mentor(s): Francis Webster

Synthesis and Characterization of Xenophilic Metal Clusters
Student Presenter(s): Guy Fortney
Faculty Mentor(s): George Harakas

Hair Analysis to Differentiate Dog Breeds
Student Presenter(s): Sierra Garrison
Faculty Mentor(s): Cindy Burkhardt

Determination of Triclosan in Household Products
Student Presenter(s): Cora Handy
Faculty Mentor(s): Kristina Stefaniak

Analysis of Whiskey by Gas Chromatography and Mass Spectrometry
Student Presenter(s): Emma Hendrix
Faculty Mentor(s): Christopher Monceaux

Presentation of Topoisomerase by Proteopedia
Student Presenter(s): Matt Hineline, Hunter Rogers, Jamison Reddy
Faculty Mentor(s): Kimberly Lane

Superhydrophobic Nanocarbon-based Materials for the Remediation of Oil-polluted Water
Student Presenter(s): Waitta Jarso
Faculty Mentor(s): Francis Webster

Presentation of Bacteriohodopsin by Proteopedia
Student Presenter(s): Kaitlynn Leinberger, Jenna Blanchette
Faculty Mentor(s): Kimberly Lane

The Determination of Fluoride Content in Various Black Teas
Student Presenter(s): Ella Lockhart
Faculty Mentor(s): Cindy Burkhardt

Expression and Purification of E. Coli Beta Glucuronidase
Student Presenter(s): D. William O’Neal, Gabrielle Bailey
Faculty Mentor(s): Kimberly Lane

Spin-assisted Layer-by-layer Assembled Films for the Photo-degradation of Emerging Antibiotic Pollutants
Student Presenter(s): River Rupert
Faculty Mentor(s): Francis Webster

The Analysis of (+)-Catechin in Dark Chocolate Products
Student Presenter(s): Matthew Spitz
Faculty Mentor(s): Cindy Burkhardt
Chemistry Poster Session
5:00 pm – 6:15 pm  Center for the Sciences Lobby

Student Presenter(s): Evan Wood
Faculty Mentor(s): Francis Webster

Analysis of Cannabinoids in Commercial Products Using Liquid Chromatography with PDA and MS Detection
Student Presenter(s): Jynna Harrell
Faculty Mentor(s): Christopher Monceaux

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

Mapping Radford’s Civil War History Using Unmanned Systems
Student Presenter(s): Kendra Bolen
Faculty Mentor(s): James Young, David Anderson

The Comparison of Topographic Data Twenty Years Apart
Student Presenter(s): Katelyn Harris
Faculty Mentor(s): James Young, Jonathan Tso

Rockfall Analysis Using Drones, 3-D Model Analysis, and a Rock Fall Simulation of Rockfalls in Montgomery County, Virginia
Student Presenter(s): Hannah Kocen
Faculty Mentor(s): Jim Young

UAV and Ground-based Photogrammetry Applications for Use in Boulder Mass Distribution Following Moraine-dammed Lake Failures in Northern Patagonia
Student Presenter(s): Garrett O’Hara
Faculty Mentor(s): Ryan Sincavage

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

The Effect of Sea Ice Terrain on Local Air Speed and Temperature
Student Presenter(s): Nickolas Terehoff
Faculty Mentor(s): Rhett Herman

Investigating a Possible Link Between Cryoseismic Activity and Acceleration of Anthropogenic Climate Change
Student Presenter(s): Samuel Williams, Jonathon Halferty
Faculty Mentor(s): Rhett Herman

The Messier Marathon from Selu Observatory
Student Presenter(s): Dustin Kirby
Faculty Mentor(s): Sandra Liss
Occupational Therapy Virtual Session
12:00 pm - 12:30 pm
Zoom: 91704443488 Password: OURS2023

My Cultural Self
Student Presenter(s): Addison Panse
Faculty Mentor(s): Sarah Garrison
Notes: