APRIL 23-24 2019

28TH ANNUAL

STUDENT

ENGAGEMENT

FORUM

RADFORD UNIVERSITY

Student Engagement Forum Coordinators

Joe Wirgau, OURS Director

David N. Sallee, OURS Associate Director

Alyssa Thompson, OURS Administrative Assistant

The following individuals and officers are acknowledged for their contributions:

Donna Boyd, Sigma Xi Chapter President

Mary Hagan, Honors College Administrative Assistant

Jason Davis, Honors College Associate Director

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Ellen Taylor, Career and Talent Development Career Advisor

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Phillip Hardy, Director of Graduate Recruitment

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Karen Everett, OURS Graduate Assistant

Zoe Millard, OURS Graduate Assistant

Samantha Doncaster, OURS Executive Student Assistant
Hunter Brandon, OURS Executive Student Assistant

About the Cover Art

The cover art is the creation of Marcus Reed, a third year Graphic Design major at Radford University

Artist Statement:

With more than 1,000 students that attend this university with hopes and dreams of showcasing their talents and knowledge, I had the pleasure of designing this cover art to express just that. Just as anyone else who gets to show theirs, I get to show mine in a different way. A way that will grasp the attention of all viewers who will hold this day in their memories. That is why I designed this cover with a more realistic theme to show that we all can be a part of something greater. Giving the color scheme mesh in this design I wanted the feeling of "We are all in this together." With how ever long our college journey is we are in this together! Hope you all enjoy.

28th Annual Radford University Student Engagement Forum

SCHEDULE AT A GLANCE

Tuesday, April 23 rd			
Agida Manizade Keynote Address	HU AUD	11:30am 12:30 pm	pp 3
Digitizing History Digital Archives Showcase	Heth 014	9:30 am-11:00 am	pp 4
Art History Showcase: Censorship and the Arts	Heth 016	2:00 pm-3:30 pm	pp 4
Anthropological & Biological Sci. Primatology Oral Session	Heth 022	2:00 pm-4:00 pm	pp 4
History Oral Session: Soviet World War 2	Heth 044	2:30 pm-3:30 pm	pp 5
Biology Oral Session	CS M073	3:30 pm-4:50 pm	pp 5
Creative Writing Showcase	Heth 022	4:30 pm-5:30 pm	pp 5
Interdisciplinary Oral Session	Heth 043	4:30 pm-6:30 pm	pp 6
Chemistry Oral Session	CS M070	5:00 pm-6:20 pm	pp 6
W/s durandam Ameil 24th			
Wednesday, April 24 th Innovations in Forensic Science Oral Session	Heth 022	8:00 am-12:00 pm	pp 7
Geospatial Poster Showcase	Kyle 340	2:30 pm-3:45 pm	pp 9
Interdisciplinary Poster Showcase	Kyle 340	2:30 pm-3:45 pm	pp 10
Visual Sociology Poster Showcase	Kyle 340	2:30 pm-3:45 pm	pp 11
Psychology Poster Showcase	Kyle 340	4:00 pm-5:15 pm	pp 12
Biology Poster Showcase	Kyle 340	5:30 pm-6:45 pm	pp 15
SciArt Showcase	Kyle 340	5:30 pm-6:45 pm	pp 17
Accelerated Research Opportunities Poster Showcase	Kyle 340	7:00 pm-8:15 pm	pp 18
Chemistry Poster Showcase	Kyle 340	7:00 pm-8:15 pm	pp 19
Highlander Research Rookie Poster Showcase	Kyle 340	7:00 pm-8:15 pm	pp 20
Nutrition and Dietetics Poster Showcase	Kyle 340	7:00 pm-8:15 pm	pp 21
Psychology Poster Showcase II	Kyle 340	7:00 pm-8:15 pm	pp 21
Honors College Capstone Showcase	CS M073 & Lobby	3:00 pm-9:00 pm	pp 22
Center for Gender Studies Keynote Presentation	Heth 022	3:30 pm 4:30 pm	pp 25
Center for Gender Studies Showcase	Heth Lobby	4:30 pm 5:30 pm	pp 26
CITL Digital Media Showcase	McConnell 4th Floor	4:00 pm-7:30 pm	pp 26
Production Technology Showcase	McGuffey 203	6:00 pm-8:00 pm	pp 30
Wednesday & Thursday, May 1st-2nd			
Student Choreography Showcase	Peters Hall B112	7:30 pm-9:30 pm	pp 31

Welcome

It is my great pleasure and privilege to welcome you to the 28th Annual Radford University Student Engagement Forum! The Student Engagement Forum (SEF) showcases the highest levels of academic achievement and creation of new knowledge at Radford University through our campus community's undergraduate and graduate students' creative works, scholarship, and research. The displayed work represents a tremendous undertaking, often involving teams of students and faculty, to make progress on answering important questions for society.

Although what you hear and see represents countless hours of work, it is only the tip of the iceberg. Everyone who has worked to create new knowledge knows it is a crooked path filled with dead ends and back-tracking before finally arriving at progress. This progress requires great perseverance, belief, and support. I want to publicly thank all the presenters for staying the course, everyone who sparked or encouraged the needed curiosity to get started, and everyone who said a supporting word or offered a shoulder to lean, or even cry on, when the inevitable challenges of conducting relevant research arose.

The "Forum" as so many refer to this event continues to adapt and grow to meet the needs of campus. It is exciting and humbling to see so many emerging projects and programs on campus represented here. The SciArt Exhibits is the result of the Realizing Inclusive Science Excellence (REALISE) team while the CITL Digital Media Showcase is piloting the university's digital media displays, which could usher in a whole new era of presentation types. President Hemphill's vision for the Highlander Research Rookies has become a reality and represents in a microcosm the innovative mindset being embraced by Radford University.

To support these emerging needs requires a team effort and the success of this year's SEF is due to the preparation and hard work put in by the OURS team. It is an honor for me to work with such a dedicated group whom believe in this event and supporting research in all its forms across campus. Karen Everett and Hunter Brandon have been excellent in managing the poster printing workflow. Zoe Millard jumps in as needed with projects, like the name badges. Alyssa Thompson for her tireless work in the department handling a wide variety of projects while making the office a warm, inviting, and interesting place to work. Dave Sallee has been amazing at keeping up with the myriad of microchanges that occur over the course of putting this event together and has added such a warm, calm, and down to earth touch to our occasional organized chaos. Sam Doncaster is the lone returning member of the team from last year and provides me great perspective on student researchers. Dr. Jeanne Mekolichick has continued to act as transformative mentor to me in this role and her leadership continues to be a driving force for student-faculty research on campus. She is the embodiment of high impact practices making a difference in the life of others. I can honestly say I enjoy coming to the office every day, it is full of intelligent, interesting, caring professionals who find a way to keep working with a smile and laugh even on the most stressful days. I am truly blessed to work with such a team.

Enjoy the celebration of new knowledge and I hope to see you all next year for the 29th version of the Student Engagement Forum!

Dr. Joe Wirgau

Director, Office of Undergraduate Research & Scholarship (OURS)

Keynote Speaker Dr. Agida Manizade Being a Researcher in the 21st Century Hurlburt Auditorium 11:30 am-12:30 pm

Agida G. Manizade is a Professor in the Department of Mathematics and Statistics in the Artis College of Science and Technology at Radford University where she joined the faculty in 2009. Whether she delivers online graduate classes or in-person undergraduate classes, she enthusiastically engages students and helps them to comprehend mathematics and mathematics pedagogy through hands-on activities, visual examples, use of technology, and students' immersion in original research.

Dr. Manizade's major scholarly interests include research in mathematics teaching and teacher education, mathematics teachers' knowledge, and use of technology in the mathematics classroom. Award-winning faculty, the Editor-In-Chief of the Virginia Mathematics Teacher (VMT) journal, she received the 2018 Outstanding Publication Award from the National Council of Teachers of Mathematics for the journal, was recognized as a 2019 Outstanding Faculty Award Recipient by the State Council of Higher Education for Virginia, the Distinguished Creative Scholar by RU Foundation in 2017, received Million Dollar Circle award in 2014 and Artis Outstanding Faculty Award for Scholarship and Service in 2013, and was awarded more than \$2.5 million in external grant funding.

Dr. Manizade is widely published in national and international academic outlets including, but not limited to, Educational Studies in Mathematics, Zentralblatt für Didaktik der Mathematik (ZDM) The International Journal on Mathematics Education, Education Sciences, Mathematics Teacher, International Perspectives on the Teaching and Learning of Geometry in Secondary Schools, and International Perspectives on Teaching and Learning Mathematics with Virtual Manipulatives. She has published more than 25 articles and presented at more than 75 professional conferences.

In addition, Manizade served as a Founding Director and is currently a co-Director of the Secondary Mathematics Professional Development Center. She also served as a Founder and Board President for a non-profit corporation, Radford Child Development Inc., which develops and supports high-quality child development programs.

She received her bachelor's degree and master's degree in mathematics from Baku State University, second master's degree from The College of William and Mary, and doctorate degree from University of Virginia.

Digitizing History: Digital Archives Showcase Heth 014, 9:30-10:45 am

Student Author(s): Amanda Dean, Imani Rose, Trey Vaughan, Lindsey Builta

Cassidy Leonard, Amber McMillan, Clint Eaton, Pete Troia

Faculty Mentor(s): Sharon Roger Hepburn

Art History Showcase: Censorship and the Arts Heth 016, 2:30-3:30 pm

Student Author(s): Brandon Crawford Chayla Downer Austin Eva

Xale Manhertz Madeline Murchie-Beyma Marcus Reed

Jasmine Rivera Maya Smalls Christian Torres-Cruz

Eddie Umana Jordan Via Sonia Wu

Faculty Mentor(s): Roann Barris and Carlee Bradberry

Anthropological and Biological Sciences Primatology Oral Session Heth 022, 2:00-4:00 pm

2:00 pm Lemurs In the Rain

Student Author(s) Alexandra Wilson, Justin Wood, Kyle Putman, Matthew Donathan Faculty Mentor(s) Cassady Urista

2:15 pm Dominance hierarchies and territorial boundaries between Lemur catta and Varecia

Student Author(s) Tyler Miller, Jack Williams, David Kleppinger Faculty Mentor(s) Cassady Urista

2:30 pm Grooming and Aggression in One Male Units of Hamadryas Baboons (Papio hamadryas) at the North Carolina Zoo

Student Author(s) Katherine Harris, Aubree Marshall, Jessica Wollmann, Allanah Cross Faculty Mentor(s) Cassady Urista

2:45 pm Aggression and Group Dynamics in Captive Hamadryas Baboons (Papio hamadryas)

Student Author(s) Sadie Friend, Caleb Kipps, Allyssa Ghans, Selena Angel, Julia Yoder Faculty Mentor(s) Cassady Urista

3:00 pm The Effects of Mother-Juvenile Relatedness on Interactions and Proximity

Student Author(s) Kara Keesey, Alexa Stapleton, Josh Howard, Cheyenne McCleese Faculty Mentor(s) Cassady Urista

3:15 pm Correlation Between Blackback Behavior and Group Interactions in Captivity

Student Author(s) Margo Lobins, Camille Hamway, Bryce Kuehn, Sierra Bradley Faculty Mentor(s) Cassady Urista

3:30 pm Affiliative Social Interactions Between Adult & Juvenile Female Chimpanzees

Student Author(s) Amber McMillan, Miracle Davis, Bailey Mitchell, Jacob McCoy

Faculty Mentor(s) Cassady Urista

Anthropological and Biological Sciences Primatology Oral Session Heth 022, 2:00-4:00 pm

3:45 pm Adult and Juvenile Chimpanzee Activity in Arboreal and Terrestrial Environments

Student Author(s) Erin Dimino, Jasemine Brown, Bernice Adjaloko

Faculty Mentor(s) Cassady Urista

History Oral Session: Soviet World War 2 Heth 044, 2:30-3:10 pm

2:30 pm An Examination Of The Soviet Union During World War II

Student Author(s) Kaitlyn Partanen Faculty Mentor(s) Suzanne Ament

2:50 pm The Battle of Kursk 1943: Turning the Tides on the Eastern Front

Student Author(s) Zachary Paul Faculty Mentor(s) Suzanne Ament

Biology Oral Session Center for the Sciences M073, 3:30-4:50 pm

3:30 pm Perspectives and Pollutants: an Interdisciplinary Approach to examining EDCs Impact in Aquatic Environments

Student Author(s) Kristina Wade, Alex Atwood, Abbey Ouellette Faculty Mentor(s) Christopher Monceaux and Sara O'Brien

3:50 pm Neutrophil/Lymphocyte Ratio as a Measure of Immune Response in Humans Exposed to Novel Microbiomes

Student Author(s) Aubree Marshall, Haley Mullins Faculty Mentor(s) Jason Davis and Cassady Urista

4:10 pm Comparing Survey Methods to Maximize Allegheny Woodrat Occupancy Detection in Virginia, 2017-2018

Student Author(s) Karissa Ellis Faculty Mentor(s) Karen Powers

4:30 pm Parental investment in nest defense varies by species and nest stage

Student Author(s): Nolen Miller and Layne DiBuono

Faculty Mentor(s): Sarah Foltz

<u>Creative Writing Showcase</u> Heth 022, 4:30-5:30 pm

Elsewhere

Student Author(s): Alexander Burnley, Abigail Bailey, Cassidy Shepherd Karrah Davidson, Brandon Moore, Austin Lumpkin

Faculty Mentor(s): Rick Van Noy

Interdisciplinary Oral Session Heth 043, 4:30-6:30 pm

4:30 pm FMS Scores Among Brazilian Jiujitsu Athletes in Correlation with Rank and Time in Sport

Student Author(s) Matthew Brisendine

Faculty Mentor(s) Melissa Grim, Angela Mickle, David Sallee

4:50 pm Influence of Knowledge on Perceived Exertion with Blind Resistance Exercise

Student Author(s) Ian Niday

Faculty Mentor(s) Melissa Grim

5:10 pm The Effects of Climate Change on Tourism in the Mid-Atlantic

Student Author(s) Allison Brennan and Mary Kate Thornburg

Faculty Mentor(s) Joshua Carroll

5:30 pm Roots with Wings

Student Author(s) Amanda Burroughs, Shaylee Hodges, Cora Bland, Sharmaine Ramirez

Faculty Mentor(s) Melinda Wagner

5:50 pm The Oversexualization and Desexualization of Appalachian Women

Student Author(s) Amanda Burroughs

Faculty Mentor(s) Aysha Bodenhamer

6:10 pm Movement Matters!

Student Author(s) Eliza Green, Jennifer Blake

Faculty Mentor(s) Stirling Barfield and Kevin Bowers

<u>Chemistry Oral Session</u> Center for the Sciences M070, 5:00-6:20 pm

5:00 pm Method Development of Phosphite Using Ion Chromatography

Student Author(s) Patrick Webb

Faculty Mentor(s) Cindy Burkhardt

5:20 pm Developing A Stimuli Controlled Drug Delivery System For Breast Cancer

Student Author(s) Kayla Leatherman and Hannah Pierce

Faculty Mentor(s) Kristina Stefaniak

5:40 pm Preparation of a glycerol-based carbon/iron nanocomposite for the removal of contaminants in aqueous systems.

Student Author(s) Justin Daniels

Faculty Mentor(s) Francis Webster

6:00 pm Investigation of an Active Dimeric form of Beta-glucuronidase

Student Author(s) Jacob Britton

Faculty Mentor(s) Kimberly Lane

Innovations in Forensic Science Oral Session Heth 022, 8:00-11:40 am

8:00 am A Validation Study of the huMANid Program for Estimating Ancestry and Sex of Unidentified Prehistoric and Historic Human Remains

Student Author(s) Ashley Dawson Faculty Mentor(s) Donna Boyd

8:10 am The Effects of Diabetes Mellitus on Bone Fracture Susceptibility and Repair: Application to Forensic Abuse Case Evaluations

Student Author(s) Sadie Friend Faculty Mentor(s) Donna Boyd

8:20 am Effect of Repetitive Saw Use on Identifying Tool Mark Characteristics in Bone

Student Author(s) Tyler Miller Faculty Mentor(s) Donna Boyd

8:30 am Sexual Dimorphism of the Supra-orbital Foramen

Student Author(s) Pearl Moore Faculty Mentor(s) Donna Boyd

8:40 am The Influence of Fabric on Sharp Force Trauma Signatures on Bone

Student Author(s) Amy Rogers Faculty Mentor(s) Donna Boyd

8:50 am Metric Assessment of the Patella for Sex Estimation of Unidentified Decedents

Student Author(s) Victoria Cristwell Faculty Mentor(s) Donna Boyd

9:00 am The Effect of Soil Acidity on the Rate of Bone Decomposition

Student Author(s) Cristian Torres-Cruz

Faculty Mentor(s) Donna Boyd

9:10 am Legibility of Handwriting Based on Robusticity

Student Author(s) Jessica O'Connor Faculty Mentor(s) Donna Boyd

9:20 am Assessment of Handedness From Measures of Hand Robusticity

Student Author(s) Jessica O'Connor Faculty Mentor(s) Donna Boyd

9:30 am Vegetation Associated with Covert Grave Sites in the Humid Subtropical Climate of Southwest Virginia

Student Author(s) Jack Williams Faculty Mentor(s) Donna Boyd

9:40 am Detection of Covert Human Remains Through Vegetation and Soil Analysis in a Forensic Setting

Student Author(s) Jack Williams Faculty Mentor(s) Donna Boyd

Innovations in Forensic Science Oral Session Heth 022, 8:00-11:40 am

9:50 am Rib Fracture Patterns in Decedents Undergoing High Velocity Blunt Force Impact

Student Author(s) Alexandra Wilson

Faculty Mentor(s) Donna Boyd

10:00 am Survivability of Fingerprints when Submerged in Fresh Water and Bleach

Student Author(s) Erin Dimino

Faculty Mentor(s) Donna Boyd

10:10 am The Use of an Alternate Light Source in the Detection and Recovery of Forensic Human Remains

Student Author(s) Tyler Miller

Faculty Mentor(s) Donna Boyd

10:20 am Quantification of Nicotine in e-Cigarette Cartridges

Student Author(s): Leslie Molina-Arana

Faculty Mentor(s): Kristina Roth Stefaniak and Donna Boyd

10:30 am Location Accuracy of Bluetooth Apple Watch Devices

Student Author(s) Alexandra Wilson

Faculty Mentor(s) Donna Boyd

10:40 am A Macroscopic and Microscopic Forensic Atlas of Sharp Force Trauma Defects in Decedents Undergoing Fatal Stabbing

Student Author(s) Tana Vance

Faculty Mentor(s) Donna Boyd

10:50 am The Effect Chemicals Can Have On Decomposition

Student Author(s) Rachel Parker

Faculty Mentor(s) Donna Boyd

11:00 am The Effects of Arson-induced Thermal Damage on Fingerprint Evidence

Student Author(s) Samantha Gibson

Faculty Mentor(s) Donna Boyd and Todd Jones

11:10 am The Relationship Between Childhood Trauma And Criminal Behavior

Student Author(s) Kara Johnson

Faculty Mentor(s) Donna Boyd

11:20 am The Effects of Crime Scene Fluids and Other Substances on Forensic Hair Analysis

Student Author(s) Brenna Lowe

Faculty Mentor(s) Donna Boyd

11:30 am Causes of Death in Fatal Cases of Child Abuse

Student Author(s) Reneisha Leeper

Faculty Mentor(s) Donna Boyd

Geospatial Science Poster Showcase: Kyle Hall 340, 2:30-3:45 pm

Spatial Patterns of Cancer Rates and Radio Frequency Towers

Student Author(s): Nathan Blankenship

Faculty Mentor(s): Andrew Foy

Modeling Red Spruce Habitat in the Southern Appalachian Region

Student Author(s): Thomas Callahan

Faculty Mentor(s): Richard Roth and R. Stockton Maxwell

An Analysis Comparing Didactic Teaching and Virtual Reality Learning in Physical Geography

Student Author(s): Christopher Carter

Faculty Mentor(s): Andrew Foy

Sea Level Rise Impact On Wetlands In Virginia Beach

Student Author(s): Zachary Coverstone

Faculty Mentor(s): Rick Roth and Andrew Foy

A Comparison of Risk Terrain Modeling and Deep Learning in Crime Prediction

Student Author(s): Matt Crichton

Faculty Mentor(s): Andrew Foy and Caleb Bradberry

Ocean Acidification and Analysis of Coral Reef Bleaching

Student Author(s): Alden Dunn Faculty Mentor(s): Richard Roth

A Comparison Of Indoor 3D Modeling Techniques

Student Author(s): John Edmond

Faculty Mentor(s): Andrew Foy and R. Stockton Maxwell

Solar Power Adoption by Institutions of Higher Education in Virginia

Student Author(s): Megan Flint Faculty Mentor(s): Richard Roth

How Distance is Determined Impacts Classification of Food Desert Status

Student Author(s): Megan Flint Faculty Mentor(s): Richard Roth

Crime Analysis In Roanoke, VA

Student Author(s): Colton Grant Faculty Mentor(s): Richard Roth

Back Bay's Declining Submerged Aquatic Grasses: A 30 Year Timeline Using Remote Sensing

Student Author(s): Conner Knight Faculty Mentor(s): Andrew Foy

Using satellite imagery to assess forest fragmentation throughout Giles County caused by construction of the Mountain Valley Pipeline

Student Author(s): Andrew Kopjanski

Faculty Mentor(s): Rick Roth and Andrew Foy

Geospatial Science Poster Showcase: Kyle Hall 340, 2:30-3:45 pm

Analyzing Contamination Plume of Local Brownfield Cleanup Site Over 5 Year Interval

Student Author(s): Olivia Ligon

Faculty Mentor(s): Andrew Foy and Richard Roth

Macroinvertebrates in First-Order Streams in Peru and Southwest Virginia: A Comparison

Student Author(s): Austin Lumpkin

Faculty Mentor(s): Richard Roth, Jamie Lau, Stockton Maxwell

Comparing Climate-Growth Relationships in Eastern Hemlock Before and After a Climate Regime Shift

Student Author(s): Brittany Rinaldi

Faculty Mentor(s): Richard Roth and Stockton Maxwell

Predicting the Potential Future Spread of Lythrum salicaria Using GIS and Remote Sensing in the Allegheny Highlands, Virginia

Student Author(s): Robert Slusser

Faculty Mentor(s): Andrew Foy and Richard Roth

Using Satellite Imagery from Landsat 8 to Record the Percentage of Land Cover Change at Mountain Top Mining Sites in Eastern Kentucky, near the Daniel Boone National Forest

Student Author(s): Olivia Swientisky

Faculty Mentor(s): Andrew Foy and Charles Manyara

Human Detection Software in Comparison to Human Analyst Object Detection Ability with Orthorectified Mosaic Imagery in RGB and IR Spectral Images

Student Author(s): Albert Walters III Faculty Mentor(s): Andrew Foy

Interdisciplinary Poster Showcase: Kyle Hall 340, 2:30-3:45 pm

Testing the Use of Unmanned Aerial Systems (UAS) to Extract Geologic Structure Data from Unstable Rock Slopes in Southwest Virginia for VDOT Studies

Student Author(s): Samantha Farmer, Amanda Thomason, Courtney Wilson

Faculty Mentor(s): Chester Watts and George Stephenson

Mapping the West View Cemetery in Radford, Virginia and Identifying Potential Unmarked Graves Using Unmanned Aerial Systems (UASs)

Student Author(s): James Young and Michaela May Faculty Mentor(s): Jake Fox, Chester Watts, Andrew Foy

Anti-Bullying Programs are Ineffective

Student Author(s): Adrian Ghee

Faculty Mentor(s): Michele Ren and Mikaela Kelley

From Pressroom to Classroom: The Path of a Secondary Social Studies Textbook in Virginia

Student Author(s): Alyssa Thompson Faculty Mentor(s): Kristan Morrison

Visual Sociology Poster Showcase: Kyle Hall 340, 2:30-3:45 pm

Restart-Sociology Club

Student Author(s): Russel Alvarez Faculty Mentor(s): Roby Page

An Amusing Perspective

Student Author(s): Cora Bland Faculty Mentor(s): Roby Page

A Photo Ethnography Of The Tartan

Student Author(s): Chad Boxley Faculty Mentor(s): Roby Page

Men's Club Lacrosse: A Cultural Description

Student Author(s): Ke'Von Brooks Faculty Mentor(s): Roby Page

The Day Cycle of Quickway

Student Author(s): Haley Courtney Faculty Mentor(s): Edwin Page

Behind Closed Doors.

Student Author(s): Timothy James Faculty Mentor(s): Roby Page

Hoard House

Student Author(s): Molly Mattox Faculty Mentor(s): Roby Page

A Case Study On The Radford Univerity Student's Daily Life

Student Author(s): Casey McClelland

Faculty Mentor(s): Roby Page

The Legendary Gaming Association

Student Author(s): TyJuan Moulden Faculty Mentor(s): Roby Page

Ordinary or Significant?

Student Author(s): Sharmaine Ramirez

Faculty Mentor(s): Roby Page

Social Engagement in the Night Life

Student Author(s): Shaniah Stephens Faculty Mentor(s): Edwin Roby Page

Who is Mike Blevins?

Student Author(s): Spencer Thompson

Faculty Mentor(s): Roby Page

Visual Sociology Poster Showcase: Kyle Hall 340, 2:30-3:45 pm

The Life of a Future Mechanical Engineer

Student Author(s): Danielle Vogt Faculty Mentor(s): Roby Page

Visual Sociology

Student Author(s): Montrell Waters Faculty Mentor(s): Roby Page

Life At Starbucks

Student Author(s): Jasmine Zepeda-Argueta

Faculty Mentor(s): Roby Page

Psychology Poster Showcase: Kyle Hall 340, 4:00-5:15 pm

NFL Fantasy Selection Using Machine Learning Techniques

Student Author(s): Hau Tuang, Robert Wellman, Mitchell Camerano

Faculty Mentor(s): Benjamin Biermeier-Hanson

Effects of Social Housing Conditions on Hippocampal Neurogenesis in Male Long-Evans Rats

Student Author(s): Carline Bien-Aime, Gabriel Medley, Camille Hamway, Eilish Bailey

Faculty Mentor(s): Dayna Hayes

Tropomyosin Receptor Kinase B and Attentional Deficits

Student Author(s): Lauren Buynack

Faculty Mentor(s): Catherine Middlebrooks

Thinstagram: Instagram Usage, Body Satisfaction, and Disordered Eating Attitudes

Student Author(s): Mandy DeCarlo

Faculty Mentor(s): Catherine Middlebrooks

Identification with Fictional Characters

Student Author(s): Salena Diaz Faculty Mentor(s): Nicole Iannone

Effects of Monoracial Media on Biracial Individuals

Student Author(s): Salena Diaz

Faculty Mentor(s): Catherine Middlebrooks

On Cognitive Bias, The Basis of Mental Heuristics

Student Author(s): Tyler Grossheim Faculty Mentor(s): Ruth Riding-Malon

The Effects of Office Layout and Employee Ranking on Job Satisfaction

Student Author(s): Charlotte Lackey

Faculty Mentor(s): Catherine Middlebrooks

The Effects Of Social Media On Productivity

Student Author(s): Celie McKinley

Faculty Mentor(s): Catherine Middlebrooks

Psychology Poster Showcase: Kyle Hall 340, 4:00-5:15 pm

The Puzzle of Learning: A Historical Review of the Influence of Edward L. Thorndike

Student Author(s): Lesli Taylor

Faculty Mentor(s): Ruth Riding-Malon

Learning from Tests: Testing as a Study Tool

Student Author(s): Lesli Taylor Faculty Mentor(s): Kathleen Arnold

The Impact of Team Versus Individual Sports on the Frequency of Organizational Citizenship Behaviors: An Investigation of Stress Levels

Student Author(s): Kasey Warren

Faculty Mentor(s): Catherine Middlebrooks

On the origin of psychology: how the work of Darwin influenced the field

Student Author(s): Phil Schulte

Faculty Mentor(s): Ruth Riding-Malon

Environmental Impacts on Pour Drinking Decisions

Student Author(s): Hailee Strobel, Emily Harrell, Wesley Davis

Faculty Mentor(s): Jeff Aspelmeier

Who Is Hooking Up At Radford University?

Student Author(s): Hanan Ouchene, Sam Smith, Alya Al-Ahmed

Faculty Mentor(s): Jeff Aspelmeier

Texting While You Drive, Is It Worth It?

Student Author(s): Jermisha Woolridge, Mariah Chamberlain, Joseline Flores

Faculty Mentor(s): Jeff Aspelmeier

Body Image and Media

Student Author(s): Sydney Sasser, Andrea Ruiz, Morgan Hilton

Faculty Mentor(s): Pei-Chun Tsai

In the game of thrones, you win or you die; But is that really all?

Student Author(s): Jackson Dierberg, Joe Dellosso, Caitlin Martin, Kayla Bryant

Faculty Mentor(s): Pei-Chun Tsai

The Effects of Chlordiazepoxide (CDP) and Withdrawal on Female Long-Evans Rats' Memory and Anxiety.

Student Author(s): Lindsay Thompson, Chelsey Fleming, Kari Mayberry, Salena Diaz

Faculty Mentor(s): Pamela Jackson

Transracial Barriers in Adoption

Student Author(s): Katie Jennelle, Tiffany Conner, Isabel Nolasco, Laneeka Banks

Faculty Mentor(s): Pei-Chun Tsai

Does self-esteem moderate pluralistic ignorance for abusive relationships?

Student Author(s): Brittany Elias, Brittany McLean, Claudia Raful

Faculty Mentor(s): Jeffery Aspelmeier

Psychology Poster Showcase: Kyle Hall 340, 4:00-5:15 pm

Diversity in Hollywood: Linking the African American Race to Caucasian

Student Author(s): Wynter Young, Lexi lewis, Britney Reynolds, Samantha Lary

Faculty Mentor(s): Pei-Chun Tsai

The Importance of Diversity in American Universities

Student Author(s): Christopher Trussell, Tybreoin Green, Austin White, Nate Dobos

Faculty Mentor(s): Pei-Chun Tsai

Reality Versus Media: Is What We See An Accurate Representation?

Student Author(s): Sarai Maguire-Hernandez, Michael Watts, Kristine Stuart

Faculty Mentor(s): Pei-Chun Tsai

College Student Stress, Basic Psychological Needs satisfaction, Academic Encouragement, and Well-Being

Student Author(s): Katty Mancia, Dominic Sierra, Iris Traylor, Jasmine Young

Faculty Mentor(s): Pei-Chun Tsai

Cultural Differences in Mental Health

Student Author(s): Crishauna Rolack, Amanda Fithian, Jeannie Utt

Faculty Mentor(s): Pie-Chun Tsai

Do Political Attitudes Moderate Pluralistic Ignorance of Xenophobia on Radford University's Campus?

Student Author(s): Katty Mancia, Kylie Duncan, Zoe Young

Faculty Mentor(s): Jeffery Aspelmeier

Smoking, Vaping, and College

Student Author(s): Christian Cassella-Chandler and Rachel Millard

Faculty Mentor(s): Jeff Aspelmeier

Correlates of the Fear of Missing Out

Student Author(s): Hanna Hatfield Faculty Mentor(s): Nicole Iannone

Learning from Closed-Book Essays: An Intervention Study

Student Author(s): Lauren Wright and Brody Dawson

Faculty Mentor(s): Kathleen Arnold

The Views of Ageism in College Students

Student Author(s): Marissa Yow Faculty Mentor(s): Jenessa Steele

The Life and Death of Structuralism: The Edward B. Titchener Biography

Student Author(s): Paul Pohto

Faculty Mentor(s): Ruth Riding-Malon

Biology Poster Showcase: Kyle Hall 340, 5:30-6:45 pm

Impacts of the invasive Emerald Ash Borer on Ash Trees in Southwest Virginia Forests

Student Author(s): Stephen Ruppert, Brian Ditch, Adam Allen

Faculty Mentor(s): Christine Small

Bird-window Collisions at Radford University: Light Pollution as a Source of Disorientation for Birds

Student Author(s): Anastasia Mejia, Kylia Luna, Taylor Brown

Faculty Mentor(s): Karen Powers

Creating CRISPR/Cas Mutants in Arabidopsis

Student Author(s): Tayler Lewis, Megan Calvanese, Angie Leon

Faculty Mentor(s): Tara Phelps-Durr

Tibial Torsion and Patterns of Metatarsal Robusticity in Humans: An Osteometric Study

Student Author(s): McKenzie Schrank, Jessica Wollmann, Aubree Marshall

Faculty Mentor(s): Laura Gruss

Tibial Torsion and Pressures in the Feet During Walking and Standing in Humans: an Experimental Study

Student Author(s): Jessica Wollmann, Aubree Marshall, Mckenzie Schrank, Celinna Haber

Faculty Mentor(s): Laura Gruss

A new method for obtaining tibial torsion in living humans

Student Author(s): Aubree Marshall, McKenzie Schrank, Jessica Wollmann

Faculty Mentor(s): Laura Gruss

Lichens of Wildwood Park

Student Author(s): Richard Brooks Faculty Mentor(s): Gary Cote

Deer Spotlighting Surveys at the Radford Army Ammunition Plant: Impacts on Harvest Data

Student Author(s): Jasemine Brown Faculty Mentor(s): Karen Powers

Alkaloid Extraction And Identification From Dieffenbachia seguine

Student Author(s): Cole Faulkner

Faculty Mentor(s): Gary Cote and Cindy Burkhardt

Relating Bird-window Collisions at Radford University to Wind and Precipitation Metrics

Student Author(s): Miranda Flack Faculty Mentor(s): Karen Powers

An Internship at the Science Museum of Western Virginia: Investigating Freshwater Fish Schooling and Aggressive Behavior

Student Author(s): Miranda Flack Faculty Mentor(s): Karen Powers

Internship at Science Museum of Western Virginia: Trouble-Shooting Captive Care of Poison-Arrow Frogs

Student Author(s): Stanford Horbacz Faculty Mentor(s): Karen Powers

Biology Poster Showcase: Kyle Hall 340, 5:30-6:45 pm

Interning at PrideRock Wildlife Refuge: Learning to be a caretaker

Student Author(s): Meghan Howard Faculty Mentor(s): Karen Powers

Calcium Oxalate Crystals in the Leaf Buds

Student Author(s): Samantha Jones-Carlyle

Faculty Mentor(s): Gary Cote

Does the Time of Day Have An Impact on the Number of Bird-Window Collisions at Radford University?

Student Author(s): Lindsey Lee and Lauren Burroughs

Faculty Mentor(s): Karen Powers

Analyzing Relationships of Bird Window Collisions at Radford University to Landscaped Vegetation and Anthropogenic Perches

Student Author(s): Diana Nickle Faculty Mentor(s): Karen Powers

Internship with the U.S. Forest Service: Research on Sensitive Species

Student Author(s): Kayla Ogden Faculty Mentor(s): Karen Powers

COI Barcoding in bird carcasses from building collisions on Radford University Campus

Student Author(s): Claudia Paniagua-Ugarte

Faculty Mentor(s): Karen Powers and Bob Sheehy

Examining Window-collision Locations on Radford University's Campus: Migratory versus Resident Bird Species

Student Author(s): Hannah Reed and Zoe Krajcirovic

Faculty Mentor(s): Karen Powers

Radford University Bird-Window Collisions: Impacts of Window Area, Aspect, and Building Height

Student Author(s): Laura Soares Faculty Mentor(s): Karen Powers

Exploration of Inflammatory Response in Alcohol-Treated Rodents

Student Author(s): Alicia Wood

Faculty Mentor(s): Joyce Caughron and Dayna Hayes

Identification of signals that regulate CYP4F gene expression

Student Author(s): Sabrena Hodnett, Harvest Farrer, Emma LaBarr, Ashley Franklin

Faculty Mentor(s): Peter Christmas

Scale of integration from the alpha-proteobacterium into mitochondrial genome

Student Author(s): A.L. Hiett, M.K. Barney, P. D. Garskol Faculty Mentor(s): Bob Sheehy and Joyce Caughron

Analyzing genomic differences between multi-host and single-host bacteriophages

Student Author(s): C. Fox, M.R. Gonzalez, A. Roberts Faculty Mentor(s): Bob Sheehy and Joyce Caughron

Biology Poster Showcase: Kyle Hall 340, 5:30-6:45 pm

Comparison of Tail-Related Proteins in EA Cluster Phages

Student Author(s): J. Gibson-Cromer, K. Hodges, J. Wyllie Faculty Mentor(s): Bob Sheehy and Joyce Caughron

A proposed approach for identifying function for genes where the function is unknown

Student Author(s): C. Krysa and L. Jones

Faculty Mentor(s): Bob Sheehy and Joyce Caughron

Development of a Non-invasive DNA Collection technique for Species Determination in Amphibians

Student Author(s): E. Hansen Faculty Mentor(s): Bob Sheehy

Impacts of the Mountain Valley Pipeline: the relationship between aquatic insect richness and riffle morphology or chemistry in Mill Creek, Roanoke County, Virginia

Student Author(s): Donya Mohamed and Samantha Houck Faculty Mentor(s): Jamie Lau and Kristina Stefaniak

Cadaver Brains: A Comparative Analysis to Aid in Post-Mortem Identification of Morphological and Pathological Structures Key to Alzheimer's Diagnosis

Student Author(s): Claire Dundon

Faculty Mentor(s): Laura Gruss and Matthew Close

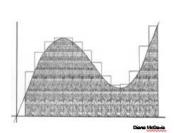
Developmental effects on Fenoxycarb and Royal Jelly in Lobster Roaches (Nauphoeta Cinera)

Student Author(s): Kelly Carter and Emmaleigh Mondell

Faculty Mentor(s): Jason Davis

SCIART SHOWCASE

Kyle Hall 340, 5:30 pm - 6:45 pm













Accelerated Research Opportunities Showcase: Kyle Hall 340, 7:00-8:15 pm

Before Vs After Music Time With Speech Therapy

Student Author(s): Kayla Snyder Faculty Mentor(s): Patricia Winter

Project Peaceline

Student Author(s): Kaylee Sturgis and Melissa McKeldin

Faculty Mentor(s): Allison K. Wisecup

Exploring EDCs and their Impact on the Environment

Student Author(s): Abigail Ouellette Faculty Mentor(s): Sara O'Brien

IgA is an Indicator of Stress in the Human Body

Student Author(s): Ian Rolston Faculty Mentor(s): Sarah Redmond

Examining the Effectiveness of the Brita Filter to Remove Organic Pollutants From Aqueous Environments

Student Author(s): Haley Collins Faculty Mentor(s): Amy Balija

Analysis of Ligand Binding in B-Glucuronidase

Student Author(s): Rayshell Torres-Santana and Samantha Powell

Faculty Mentor(s): Kimberly Lane

UAV-Assisted Outcrop Study of the Hampton and Erwin Formations in SW VA

Student Author(s): Zachary Dolan Faculty Mentor(s): Beth McClellan

Dendrochronology in the Greater Yellowstone Ecosystem

Student Author(s): Nicholas Francis and Rosemary Lavelle

Faculty Mentor(s): Stockton Maxwell

Type 2 Diabetes Management Through a High Fat, Low Carbohydrate Diet

Student Author(s): Mary Brown, Liv Morka, Taylor Nugent

Faculty Mentor(s): Wendy Downey

Cosmic Building Blocks: Understanding the Dust in Dwarf Galaxies

Student Author(s): Krislyn Sourivong

Faculty Mentor(s): Sandra Liss

Archaeology & Pseudoarchaeology in Video Games

Student Author(s): Katherine Young Faculty Mentor(s): David Anderson

Optimal Group Testing for Two-Stage Hierarchical Pool Testing

Student Author(s): Sam Altman Farrell Faculty Mentor(s): Md Shamim Sarker

Chemistry Poster Showcase: Kyle Hall 340, 7:00-8:15 pm

Photo-degradation of Organic Contaminants Using a Novel Nano-carbon / TiO2 Layer-by-layer Composite

Student Author(s): Katherine M. Mankowski

Faculty Mentor(s): Francis Webster

Multi-Functional Coatings Formed From The Electrostatic Self-Assembly Of Glycerol-Based Carbon Nanoparticles And Moringa Oleifera Cationic Protein (MOCP)

Student Author(s): Carlie Perry Faculty Mentor(s): Francis Webster

Analysis of Mutations in Human B-glucuronidase and its Major Role in Mucopolysaccharidosis Type VII

Student Author(s): Haley Pflanzer Faculty Mentor(s): Kimberly Lane

Determining Relative Interaction Strengths in Thin Films of DBA Grown on a Single Crystal Metal

Student Author(s): Cory Ashworth

Faculty Mentor(s): Shawn Huston and Timothy Fuhrer

Nobel Prize Winning Science Deniers: Albert Einstein

Student Author(s): Samantha Powell Faculty Mentor(s): Timothy Fuhrer

Analysis of Ligand Binding in Mutated B-Glucuronidase

Student Author(s): Samantha Powell and Rayshell Torres-Santana

Faculty Mentor(s): Kimberly Lane

Quantifying Bacterial Degradation Of Pollutants Via HPLC

Student Author(s): Emma Kange, Maria Gonzalez Bermudez, River Fiedler

Faculty Mentor(s): Sarah Kennedy

Analysis of the Light Induced Degradation of Nitrocellulose Lacquer Coatings using Reflection Absorption Spectroscopy

Student Author(s): Taylor W Pryor Faculty Mentor(s): Francis Webster

Efficient Synthesis of Novel Four-Armed Cores for Dendrimers and Other Branched Macromolecules

Student Author(s): Cooper Burgin and William Nape

Faculty Mentor(s): Amy Balija

Temperature Dependent Stabilites of Various Isomers of C32 and C36 Endohedral Metallofullerenes

Student Author(s): Sarah Church Faculty Mentor(s): Tim Fuhrer

Investigating the Expression and Purification of T. thermophilus laccase.

Student Author(s): Katelyn Johnston and Kateri Schoettinger

Faculty Mentor(s): Sarah Kennedy

Chemistry Poster Showcase: Kyle Hall 340, 7:00-8:15 pm

Synthesis and Modification of Pyrazoline Architectures

Student Author(s): Twisha Mistry Faculty Mentor(s): Amy Balija

Self-assembly of Functionalized Carbon Nanoparticles on Polyurethane Foam for Low-cost Water Purification

Student Author(s): Tamera Riffle Faculty Mentor(s): Francis Webster

Synthesis and Electrochemical Characterization of Fullerene Derivatized Fulvenes

Student Author(s): Kateri Schoettinger and Michael Wieland

Faculty Mentor(s): Timothy Fuhrer and Anna Curtis

Operationally simple approach to indole derivatives from 2-alkenylanilines utilizing an oxidation-transannulation-elimination sequence

Student Author(s): Rachel M. Chapman and Matthew B. Griffey

Faculty Mentor(s): Christopher J. Monceaux

Highlander Research Rookie Poster Showcase: Kyle Hall 340, 7:00-8:15 pm

The Mountain Valley Pipeline's Impact on The Water Chemistry of Surrounding Streams

Student Author(s): Makenzie Bennington

Faculty Mentor(s): Kristina Roth Stefaniak and Jamie Lau

Student Retention Analysis: The Making of a Successful Highlander

Student Author(s): Nalani Story Faculty Mentor(s): Caleb Bradberry

Good Fats? The use of a Low Carb, High Fat Diet for Type 2 Diabetes and Weight Loss

Student Author(s): Mary Brown, Liv Morka, Taylor Nugent

Faculty Mentor(s): Wendy Downey

Being Out Of The Loop On Gender Stereotypes

Student Author(s): Jillian Rauch Faculty Mentor(s): Nicole Iannone

Poverty's Influence on Academic Achievement in Children

Student Author(s): Sarah Ward

Faculty Mentor(s): Wendy Eckenrod-Green

To Apply, or Not to Apply? When Following a Suggested Timeline Doesn't Work

Student Author(s): Melissa Wirchansky Faculty Mentor(s): Matthew Grimes

Identifying Cyclicity and Provenance through Thin Section Petrology of Shallow Marine Deposits in the Indo-Burman Ranges

Student Author(s): Emily Whately Faculty Mentor(s): Dr. Ryan Sincavage

Highlander Research Rookie Poster Showcase: Kyle Hall 340, 7:00-8:15 pm

Content Analysis of University Mental Health Websites

Student Author(s): Jose Bermudez Faculty Mentor(s): Kevin Bowers

Stand-Up Radford: A Pilot Study to Increase Workplace Physical Activity and Improve Overall Health

Student Author(s): Madison Gaminde Faculty Mentor(s): Kathleen Poole

The effects of river water on antibiotic resistance in Escherichia coli and Staphylococcus aureus

Student Author(s): Peter Neville Faculty Mentor(s): Joyce Caughron

Perceived risk can increase an individual's likeliness to own a firearm

Student Author(s) Samantha Doncaster Faculty Mentor(s) Nicole Hendrix

The Impact of Professional Development Initiatives on Music Teachers' Perceptions of Self-efficacy and Student Learning in Nepal: Years 3-4

Student Author(s) Bryan Dowd Faculty Mentor(s) Jennifer McDonel

<u>Please note</u>: Kristina Wade (page 5) and Tana Vance (page 8) are also Highlander Reserch Rookies. Ms. Wade and Ms. Vance are perfoming oral presentions in the Biology and Innovations in Forensic Science Oral Sessions, respectively.

Nutrition and Dietetics Poster Showcase: Kyle Hall 340, 7:00 pm - 8:15 pm

Improving Iron Bioavailability and Sensory Characteristics of a Soy Flour-Based Cookie with Addition of Wheat and Spices

Student Author(s): Madison Smith and Allison McBride Faculty Mentor(s): Laurie Bianchi and Kristina Stefaniak

Assessment of taste discrimination and knowledge of organic foods and genetically modified foods

Student Author(s): Rachel Barron

Faculty Mentor(s): Laurie Bianchi and Anna Devito

Psychology Poster Showcase II: Kyle Hall 340, 7:00 pm - 8:15 pm

Biography and Important Contributions of Wilhelm Wundt

Student Author(s): Rebecca Assadnia Faculty Mentor(s): Ruth Riding-Malon

Controversial Science: The History, Consequences, and Future Trajectory of Phrenology

Student Author(s): Rachel Scott Faculty Mentor(s): Ruth Riding-Malon

Plato and the Birth of Psychology

Student Author(s): Alex Latham Faculty Mentor(s): Ruth Riding-Malon

Honors Capstone Showcase: Oral Sessions Center for the Sciences M073

3:00 pm Barriers and Areas for Improvement to Exclusive Breastfeeding Practices During Hospital Stav

Student Author(s): Morgan Bishop Faculty Mentor(s): Dr. Marjorie Young

3:15 pm Leishmaniasis Through the Lens of the Host

Student Author(s): McKenzie Schrank Faculty Mentor(s): Dr. Jason Davis

3:30 pm Stressors and Challenges of Caregivers of Children with Disabilities

Student Author(s): Jenna von Schlichting Faculty Mentor(s): Dr. James Newman

3:45 pm A Comparison of the Push-in and Pull-out Models of School Based Speech Language Pathology and Implications for Student Success

Student Author(s): Katelyn Shubert Faculty Mentor(s): Dr. Corey Cassidy

4:00 pm Predicting Healthcare Costs in Rural and Urban Patients

Student Author(s): Jonathan Charnock Faculty Mentor(s): Dr. Caleb Bradberry

4:15 pm How to train your fish, and potentially prevent PTSD in the process

Student Author(s): Hannah Stewart

Faculty Mentor(s): Dr. Dayna Hayes & Dr. Sara O'Brien

4:30 pm Variance of Mutual Funds in Different Economic Environments

Student Author(s): Thomas Truluck Faculty Mentor(s): Dr. Abhay Kaushik

4:45 pm The Meaning of Movement: Movement as a Main Method of Criticism in a Dance Choreography

Student Author(s): Fiona O'Brien

Faculty Mentor(s): Dr. Ji-Eun Lee, Dr. Tim Channell

<u>Honors Capstone Showcase: Poster Sessions</u> Center for the Sciences Ground Floor Lobby 5:00-5:45 pm

Giving Deserved Recognition: Meriam Rejewski and the Polish Codebreakers Contributions to Breaking Enigma

Student Author(s): Cole Bankert Faculty Mentor(s): Dr. Neil Sigmon

Developmental Impact of the Environment of Poverty on Children

Student Author(s): Alicia Barnett

Faculty Mentor(s): Maude (Molly) Hunter-Sloan

Honors Capstone Showcase: Poster Sessions Center for the Sciences Ground Floor Lobby 5:00-5:45 pm

Prehabilitation: An Examination in Anterior Cruciate Ligament Injury Prevention

Student Author(s): Jane Everett

Faculty Mentor(s): Dr. Michael Moore

Risks, Rewards and Impacts of Resource Officers within a School Setting

Student Author(s): Taylan Gursoy Faculty Mentor(s): Dr. Jeffrey Chase

The Turing-Welchman Bombe: The Key for the Downfall of the Third Reich

Student Author(s): Rebecca Journigan Faculty Mentor(s): Dr. Neil Sigmon

The impacts of the veterinary office and being separated from their owners on stress in canines

Student Author(s): Lindsey Lee

Faculty Mentor(s): Dr. Sarah Redmond

Trends of Opioid Prescribing Practices Among U.S. Physicians

Student Author(s): Cameron Livingstone Faculty Mentor(s): Dr. Pamela Frasier

Implementation of Interactive 3-D Models in Geosciences for Online and Distance Learning

Student Author(s): Michaela May Faculty Mentor(s): Dr. Parvinder Sethi

A Comprehensive Analysis of SMIPO Funds

Student Author(s): Matthew Neville Faculty Mentor(s): Dr. Michael Chatham

Mindfulness in the Elementary Classroom

Student Author(s): Kelsey Peters

Faculty Mentor(s): Dr. Kristan Morrison

Peaked Interest: The Economic Cycle's Impact on the Public's Interest in Hunger

Student Author(s): Jessie Quesenberry Faculty Mentor(s): Dr. Danylle Kunkel

Preventing Type 2 Diabetes among Adolescents

Student Author(s): Jillian Rush

Faculty Mentor(s): Dr. Christi Callahan

Differences in Substance Abuse among High School Athletes and Non-athletes

Student Author(s): Chase Thompson Faculty Mentor(s): Dr. David Sallee

Eating Disorders

Student Author(s): Ashley Timbrook Faculty Mentor(s): Dr. Melissa Grim

<u>Honors Capstone Showcase: Poster Sessions</u> Center for the Sciences Ground Floor Lobby 5:00-5:45 pm

Recurrent Bilateral Chronic Exertional Compartment Syndrome: A Case Study

Student Author(s): Robyn Toran Faculty Mentor(s): Dr. Michael Moore

A Pedagogical Project on the Masticatory Biomechanics P. boisei

Student Author(s): Jessica Wollmann Faculty Mentor(s): Dr. Laura Gruss

Learning from Closed-Book Essays: An Intervention Study

Student Author(s): Lauren Wright
Faculty Mentor(s): Dr. Kathleen Arnold

Grieving Globally: Grieving Processes Around the World and Nursing Implications

Student Author(s): Alyssa Zilka Faculty Mentor(s): Dr. Sharla Cooper

Cadaver Brains: A Comparative Analysis to Aide in Post-Mortem Identification of Morphological and

Pathological Structures Key to Alzheimer's Diagnosis

Student Author(s): Claire Dundon Faculty Mentor(s): Dr. Laura Gruss

Honors Capstone Showcase: Oral Sessions Center for the Sciences M073

6:00 pm Heart of a Highlander: a Look at Radford Basketball

Student Author(s): Blake Holmes Faculty Mentor(s): Dr. Kevin Bowers

6:15 pm Implementing Montessori Methods while Following the Virginia Standards of

Learning

Student Author(s): Emily Stinson

Faculty Mantagon Dr. Vristan M.

Faculty Mentor(s): Dr. Kristan Morrison

6:30 pm Analyzing Target Acquisition Data from Subjects in Different Age Groups Using

Different Input Devices

Student Author(s): James Mitchell Faculty Mentor(s): Dr. Joe Chase

6:45 pm African American History in Dante, VA

Student Author(s): Julia Kell,

Faculty Mentor(s): Dr. Theresa Burriss

7:00 pm A Critique of Robert Cathcart's Movements: Confrontation as Rhetorical Form

Student Author(s): Sarah Derrick Faculty Mentor(s): Dr. Sandra French

Honors Capstone Showcase: Oral Sessions Center for the Sciences M073

7:15 pm Blockchain Technology and Its Impacts on the Business World

Student Author(s): Michaela Ingle

Faculty Mentor(s): Dr. Felix Amenkhienan

7:30 pm Spread of Microorganisms on Stethoscopes

Student Author(s): Leigha Spangler,

Faculty Mentor(s): Ann Hutchens and Dr. Joyce Caughron

7:45 pm Truancy, dropout and otvational interviewing: A survey of educators

Student Author(s): Rebecca Radinsky Faculty Mentor(s): Dr. Kerry Vandergrift

8:00 pm The Legacy of Josephine Baker: Performer and Activist

Student Author(s): Fiona Scruggs

Faculty Mentor(s): Prof. Deborah McLaughlin

8:15 pm Second Language Acquisition After the Critical Period

Student Author(s): Rachel Berry Faculty Mentor(s): Dr. Boyoung Park

8:30 pm Pop-Developmentalism: The Political Economy of Consumer Activism and

Sweatshop Labor

Student Author(s): Rachel Sharrett Faculty Mentor(s): Dr. Tay Tan

Center for Gender Studies Symposium Keynote Presentation Heth 022, 3:30-4:30 pm

Dr. Iuliia Hoban

Age and Gender Dimensions of Migrant Detention in the European Union

The presentation will explore the issue of the detention of migrants in the European Union (EU) through the lenses of age and gender. Vulnerable populations, such as children, who encumber on the migration routes, are often at higher risk of marginalization and human rights violations. While there is a robust EU legal regime to provide unaccompanied minors, who face detention, with multiple levels of protection, there is a difference in the implementation of legal principles across the EU member-states. The presentation examines some possible explanations of this variation such as public opinion, geographic and political specificities within individual member states. The types of persecution and challenges that children face on the migration journeys are also gendered in nature. The presentation discusses some similarities and differences experiences that boys and girls face through their migration journeys. I conclude with a consideration of possible policy recommendation on the treatment of unaccompanied minors in detention.

Gender Studies Poster Showcase: Heth Lobby, 4:30-5:30 pm

Blazing a Trail: The History of Women in the Field of Psychology

Student Author(s): Amanda Chappell Faculty Mentor(s): Ruth Riding-Malon

The Effects of Experimenter Gender on Gender Role Attitudes in an Online Survey

Student Author(s): Amanda Chappell Faculty Mentor(s): Jeff Willner

Exploring Age Differences in Responses to Disrespect Among Young and Older Adults

Student Author(s): Amanda Chappell and Rachel Scott

Faculty Mentor(s): Jenessa Steele

Are lead Female characters really leading?

Student Author(s): Ashley Ralston, Devon Johnston, Petre McSwain, Giovanni Ruiz

Faculty Mentor(s): Pei-Chun Tsai

Sexism in Bob's Burgers

Student Author(s): Emma Maddex, Chloe Deel, Carter Noell, Maddie Rogers

Faculty Mentor(s): Pei-Chun Tsai

An Investigation of Discrimination Against Pregnant Women in the Job Application Process

Student Author(s): Isabella Barker

Faculty Mentor(s): Catherine Middlebrooks

Predicting Academic Success of First Semester College Women

Student Author(s): Hanna Hatfield and Kelsey Frank

Faculty Mentor(s): Jeff Aspelmeier, Ann Elliott, Anja Whittington

Racism Sexism on hip hop and rap lyrics

Student Author(s): Barbara Hill Faculty Mentor(s): Pei-Chun Tsai

Has Gender Influenced the Choice of College Majors Over Time?

Student Author(s): Brandi Edwards, Sophia Kelly, Jasmine Young, Nicole Ramirez

Faculty Mentor(s): Pei-Chun Tsai

Race/Gender and Financial Status in Disney Throughout the Years

Student Author(s): Alexandria Spakes, Kylie Hendrickson

Faculty Mentor(s): Pei-Chun Tsai

CITL Digital Media Showcase: McConnell 4th floor, 4:00-4:30 pm

A Digital Portfolio of Seasonality and Salamander Research in Appalachia

Student Author(s): Emily Hansen Faculty Mentor(s): Christine Small

Undergraduate Biology Research: A Digital Portfolio

Student Author(s) Erin Dimino Faculty Mentor(s) Christine Small

CITL Digital Media Showcase: McConnell 4th floor, 4:00-4:30 pm

From the Tennessee Valley to the New River Valley: A Research Portfolio

Student Author(s) Raegan Forbes Faculty Mentor(s) Christine Small

A Young Ecologist: A Digital Portfolio Story

Student Author(s) Conner Philson Faculty Mentor(s) Christine Small

The Ecosystem of Wildlife and Plants Using Camera traps and Data Analysis Sheet.

Student Author(s) Abigail Nickasen Faculty Mentor(s) Christine Small

The onset of spring in Wildwood park and Wildlife monitoring of Selu Conservancy

Student Author(s) Beram Taib Faculty Mentor(s) Christine Small

Research Experience Investigating Seasonal Changes in Wildlife, Plants and Salamanders in Southwest Virginia

Student Author(s) Stephanie Martin Faculty Mentor(s) Christine Small

A Research Portfolio from Streams to Forests

Student Author(s) Angie Holmes Faculty Mentor(s) Christine Small

Digital portfolio of my experiences and research on the effects of seasonal changes on animals, salamanders and plants in Southwest VA.

Student Author(s) Randi Robertson Faculty Mentor(s) Christine Small

Appalachian Conservation Research Projects

Student Author(s) Adam Allen Faculty Mentor(s) Christine Small

Digital portfolio of my research monitoring seasonal changes at Radford University

Student Author(s) Donya Mohamed Faculty Mentor(s) Christine Small

CITL Digital Media Showcase: McConnell 4th floor, 4:40-5:10 pm

A digital portfolio devised to present my undergraduate research experiences at Radford University.

Student Author(s) Samantha Jones-Carlyle Faculty Mentor(s) Christine Small

My Digital Research Portfolio: Ecology Projects

Student Author(s) Stephen Ruppert Faculty Mentor(s) Christine Small

CITL Digital Media Showcase: McConnell 4th floor, 4:40-5:10 pm

The novel research biologist: a look at seasonal changes

Student Author(s) Selena Angel Faculty Mentor(s) Christine Small

Digital Portfolio: My experience monitoring plants and wildlife in southwest Virginia

Student Author(s) Miranda Dimas Faculty Mentor(s) Christine Small

Monitoring seasonal changes in wildlife, plants, and salamanders in Southwest Virginia

Student Author(s) Hailey McArdle Faculty Mentor(s) Christine Small

An Aspiring Wildlife Biologist: A Digital Portfolio

Student Author(s) Amanda McClelland Faculty Mentor(s) Christine Small

Research Portfolio

Student Author(s) Angie Leon Faculty Mentor(s) Christine Small

The Life of an Aspiring Ecologist

Student Author(s) Marnesha Jones Faculty Mentor(s) Christine Small

Environmental Research Experiences in Ecology: Seasonal Changes and Aquatic Predator-Prey interactions

Student Author(s) Nick Murff Faculty Mentor(s) Christine Small

Wildlife Studies

Student Author(s) Jasemine Morgan Brown Faculty Mentor(s) Christine Small

Radford Phenology Basics: Tylis Johnson

Student Author(s) Tylis Johnson Faculty Mentor(s) Christine Small

Citizen Leader ePortfolio

Student Author(s) Jennifer Cole

CITL Digital Media Showcase: McConnell 4th floor, 5:20-6:50 pm

Mainstreet

Student Author(s) Meg Robertson Faculty Mentor(s) None listed

Impacts of the Mountain Valley Pipeline: the relationship between aquatic insect richness and riffle morphology or chemistry in Mill Creek, Roanoke County, Virginia

Student Author(s) Donya Mohamed and Samantha Houck

Faculty Mentor(s) Jamie Lau and Kristina Stefaniak

CITL Digital Media Showcase: McConnell 4th floor, 5:20-6:50 pm

Production 1200 Downsizing Review

Student Author(s) Trae Price and Shakis Moore

Faculty Mentor(s) None listed

This I Believe Essay: Oh How the Fireflies Glow

Student Author(s) Nicole Jones Faculty Mentor(s) Ariel Firebaugh

This I Believe Essay: The Story of the Flamboyan Tree

Student Author(s) Emilie Colon Faculty Mentor(s) Ariel Firebaugh

This I Believe Essay: Curiosity

Student Author(s) AJ Greene Faculty Mentor(s) Ariel Firebaugh

This I Believe Essay: From the Creeks of Appalachia: One Man's Perspective

Student Author(s) Cole Faulkner Faculty Mentor(s) Ariel Firebaugh

CITL Digital Media Showcase: McConnell 4th floor, 7:00-7:30 pm

Boys Who Killed Bloodsuckers

Student Author(s) Meg Robertson Faculty Mentor(s) None listed

Sunset Series

Student Author(s) Eilish Bailey Faculty Mentor(s) None listed

Citizen Leader ePortfolio

Student Author(s) Sam Popilarski

Citizen Leader ePortfolio

Student Author(s) Madison Smith

Citizen Leader ePortfolio

Student Author(s) Fiona Scruggs

Citizen Leader ePortfolio

Student Author(s) Claire Dundon

Digital Media Showcase News Package

Student Author(s) Shakis Moore

Adventures in Reading: Utilizing YouTube as an Educational Tool

Student Author(s): Samantha Lett, Alexis Epperly and Alyssa Foster

Faculty Mentor(s): Boyoung Park

RADFORD UNIVERSITY STUDENT ENGAGEMENT FORUM

April 24, 2019

Production Technology Showcase: McGuffey 203 6:00-8:00 pm

Mentors: West Bowers Matthew Turner Michael J. Meindl Joseph Staniunas

MCEAP Thrift Store

Student Author(s): Tyler Rudd

One More Victory Royale

Student Author(s): Justin Neagle

We Are New River Radio

Student Author(s): Logan Brown

GOTE: Come Out and Get You Some

Student Author(s): Luke Hayes

Main Street Grant

Student Author(s): John Steinbach and Jennifer Blake

Interstate-81

Student Author(s): Tanis Enos and Camden Lazenby

Flamingo Fleet

Student Author(s): Hunter Hogsten

Live Music Announcing

Student Author(s): Cora Rasnake

Why Radford?

Student Author(s): Patrick Deets

Student Choreography Showcase

An evening of exploratory dance, Student Choreography Showcase highlights the voices of emerging choreographers enrolled in the Department of Dance's Choreographic Studies II class. Free admission.

Out of Focus

Student Author(s): Sarah Danaceau Faculty Mentor(s): Deborah McLaughlin

(dis)connected

Student Author(s): Sarah Danaceau Faculty Mentor(s): Deborah McLaughlin

Appartato

Student Author(s): Tabitha Kirk

Faculty Mentor(s): Deborah McLaughlin

not yet titled

Student Author(s): Tabitha Kirk

Faculty Mentor(s): Deborah McLaughlin

A vicious habit

Student Author(s) Keagan Vickers Faculty Mentor(s) Deborah McLaughlin

Barrier

Student Author(s) Cassie Williams Faculty Mentor(s) Deborah McLaughlin

Daddy's Little Girl

Student Author(s) Lauren Murphy Faculty Mentor(s) Deborah McLaughlin

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