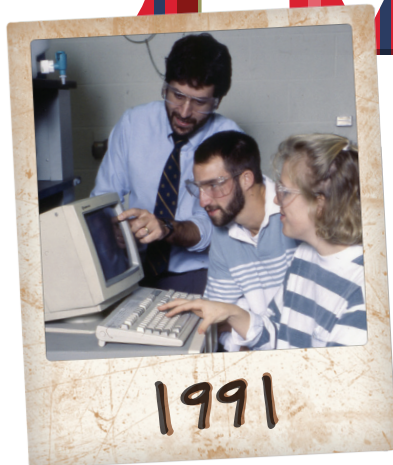


APRIL 13-15 2021

30



TH STUDENT ENGAGEMENT FORUM



RADFORD UNIVERSITY
Undergraduate Research and Scholarship

Student Engagement Forum Coordinators in OURS

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The following individuals are acknowledged for their contributions:

Bud Bennett, Archives Supervisor

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Josh Wimmer, Graphic Production Tech, Printing Services

The following individuals are acknowledged for Organizing Previous Student Engagement Forums:

Rick Slavings 1992-2002

Orion Rogers 2003

Joe King 2004-2013

Niels Christensen 2011-2013

The artwork for this program is a collaborative effort between Foster Sheppard, Madison Ferst, and the library archivists. It is inspired by the 1992 Radford University Beehive yearbook cover. For the timeless popularity and relevance, Polaroids were chosen to highlight the development and progress of Radford University in research across the past 30 years.

30th Radford University Student Engagement Forum

Schedule at a Glance

Please note that this event is occurring virtually through a combination of D2L and Zoom. All of the live Zoom links are included below for your ease of navigation and listed with the session titles throughout the program. Anyone with a Radford email can add themselves to "RU Student Engagement Forum" D2L page by self-enrolling by following the instructions [linked here](#).

Monday, April 12th: All Zoom Passwords: SEF2021

Environmental Sociology Research Session 1	11:00-11:50am	pp 5
Zoom: https://radford.zoom.us/j/99887924433		
Commodities, Value and History	11:00-11:50am	pp 5
Zoom: https://radford.zoom.us/j/95601821308		
Summit on Environmental Justice and History	1:00-1:50pm	pp 5
Zoom: https://radford.zoom.us/j/95601821308		

Tuesday, April 13th: All Zoom Passwords: SEF2021

Geospatial Science Session 1	9:30-10:45am	pp 6
Zoom: https://radford.zoom.us/j/99921848091		
Geospatial Science Session 2	3:30-4:45pm	pp 6
Zoom: https://radford.zoom.us/j/99921848091		
Hip Hop Showcase Session 1	11:00am-12:15pm	pp 7
Zoom: https://radford.zoom.us/j/93907944190		
Biology Virtual Poster Session 1	4:00-4:50pm	pp 7-8
Zoom: https://radford.zoom.us/j/95642799778		
Chemistry Research Session 1	2:00-2:50pm	pp 8
Zoom: https://radford.zoom.us/j/98522690790		
Chemistry Research Session 2	3:00-3:50pm	pp 8-9
Zoom: https://radford.zoom.us/j/98522690790		
Chemistry Research Session 3	4:00-4:50pm	pp 9
Zoom: https://radford.zoom.us/j/98522690790		
Highlander Research Rookie Showcase	4:00-6:00pm	pp 9-11
Zoom: https://radford.zoom.us/j/99672287552		
Honors Capstone Recap - Session 1	4:00-5:00pm	pp 11
Zoom: https://radford.zoom.us/j/92709281532		
Psychology and Gender Research	4:00-6:00pm	pp 12-16
D2L Interactive Discussion Boards		
Doctor of Physical Therapy Research	5:00-6:00pm	pp 17
Zoom: https://radford.zoom.us/j/95576031039		
Citizen Leader Showcase	5:00-7:00pm	pp 17
Zoom: https://radford.zoom.us/j/99417904138		

Wednesday, April 14th: All Zoom Passwords: SEF2021

Environmental Sociology Research Session 2	11:00-11:50am	pp 18
Zoom: https://radford.zoom.us/j/99887924433		
Commodities, Value and History	11:00-11:50am	pp 18
Zoom: https://radford.zoom.us/j/95601821308		
Summit on Environmental Justice and History	1:00-1:50pm	pp 19
Zoom: https://radford.zoom.us/j/95601821308		
Biology Virtual Poster Session 2	1:00-3:00pm	pp 19
Zoom: https://radford.zoom.us/j/95988708508		
Accelerated Research Opportunities Showcase	2:00-2:50pm	pp 20
Zoom: https://radford.zoom.us/j/95096942830		
HHP Biomechanics Showcase 1	2:00-2:50pm	pp 21
Zoom: https://radford.zoom.us/j/98259618683		
HHP Biomechanics Showcase 2	3:00-3:50pm	pp 21-22
Zoom: https://radford.zoom.us/j/98259618683		
Interdisciplinary Research Session	4:00-4:50pm	pp 22
Zoom: https://radford.zoom.us/j/98477606396		
Honors Capstone Recap - Session 2	5:00-6:00pm	pp 22-23
Zoom: https://radford.zoom.us/j/92709281532		
Honors Education Panel	6:00- 6:30pm	pp 23
Zoom: https://radford.zoom.us/j/92709281532		
Honors Science Panel	6:30-7:00pm	pp 24
Zoom: https://radford.zoom.us/j/92709281532		
Honors Social Science Panel 1	7:00-7:30pm	pp 24
Zoom: https://radford.zoom.us/j/92709281532		
Honors Social Science Panel 2	7:30-8:00pm	pp 25
Zoom: https://radford.zoom.us/j/92709281532		
Korean Pop Showcase	5:30-6:00 pm	pp 25
Zoom: https://radford.zoom.us/j/94848191056		
Lightning Research Competition	6:00-7:30pm	pp 26
Zoom: https://radford.zoom.us/j/99672287552		

Thursday, April 15th: All Zoom Passwords: SEF2021

Current Research in Forensic Science	8:00am-12:00pm	pp 27
Zoom: https://radford.zoom.us/j/99954677331		
Hip Hop Showcase Session 2	11:00am-12:15pm	pp 29
Zoom: https://radford.zoom.us/j/93907944190		
Art History Showcase: Unfamiliar Russian Art	2:00-3:30pm	pp 29
Zoom: https://radford.zoom.us/j/98311849180		
Geospatial Science Session 3	3:30-4:45pm	pp 30
Zoom: https://radford.zoom.us/j/99921848091		
OURS CARES Awards	6:00-6:30pm	pp 31
Zoom: https://radford.zoom.us/j/99672287552		
Graduate Criminal Justice Showcase 1	6:30-8:00pm	pp 32
Zoom: https://radford.zoom.us/j/97259662209		

Friday, April 16th: All Zoom Passwords: SEF2021

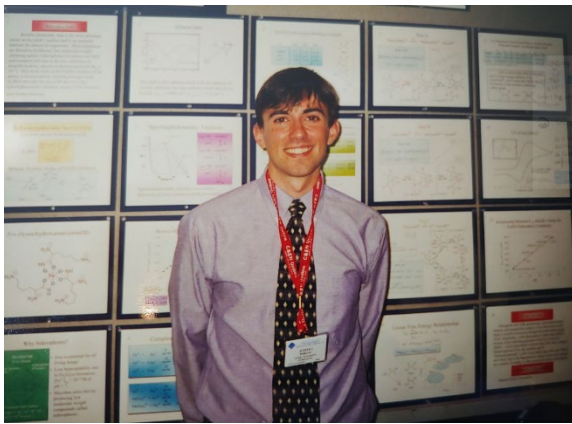
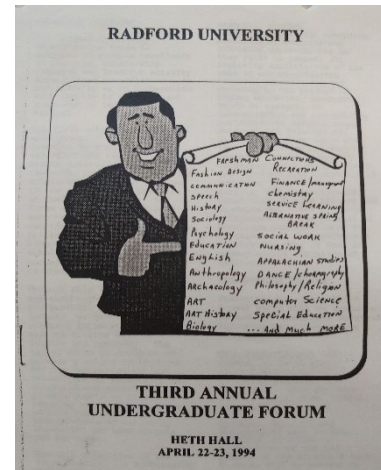
Commodities, Value and History	11:00-11:50am	pp 33
Zoom: https://radford.zoom.us/j/95601821308		
Summit on Environmental Justice and History	1:00-1:50pm	pp 33
Zoom: https://radford.zoom.us/j/95601821308		

Asynchronous: Accessible on D2L

Art History Showcase	pp 33
Biology Virtual Session	pp 34
Graduate Criminal Justice Showcase 2	pp 34-35
Interdisciplinary Asynchronous Presentations	pp 35-36
Production Technology Showcase	pp 36
Undergraduate Criminal Justice Showcase	pp 37-38

Welcome and Retrospective

30 years of the Radford Student Engagement Forum (SEF). Thirty years! They say the only constant is change, and although this event has changed names multiple times and grown from a mere 30 student presenters to nearly 400 this year (despite a pandemic), it has been a constant that Radford University has been committed to engaging our students in projects that challenge them to grow and find answers to questions that matter in our modern society. The “Annual Undergraduate Forum” (cover art for the 3rd program pictured, right) started with big objectives. Every year our students and faculty continually meet the eight original goals that range from the first, “encouraging awareness and recognizing exemplary student accomplishments” to the last, “showcasing and celebrating what is best in undergraduate education at Radford University.” Building off of this proud tradition, and in support of the founding goals for the now Student Engagement Forum, I am excited to include the first annual OURS CARES Awards Showcasing the Best in Undergraduate Research during the traditional Thursday evening conclusion to the forum—as many call it. Maybe we shouldn’t have changed the name so many times. But the name changes are a great segue into the history of the forum and how those changes are representative of changes across campus. The SEF would not exist without passionate professors like Moira Baker who found a way to mentor students and find funding to present at the first ever National Conference at Undergraduate Research in Ashville, NC in 1987. Enthusiasm for bringing these experiences to more students was championed by Warren Self and brought into existence by Rick Slavings in 1991. I consider myself indebted to their vision for our university. In the early years the title changed to the Undergraduate Graduate Forum to include all of our students and a growing graduate degree portfolio and then to Undergraduate/Graduate Student Engagement Forum in support of our QEP. In this same time period, the Honors Academy became the sponsor under the guidance of Orion



Rogers and then for many years grew under the vision of Joe King. I have had the privilege of managing the Student Engagement Forum, since taking over from Niels Christensen in 2004. Niels was extremely gracious in offering advice, examples, and answering my questions in those early years. OURS has tried to bring new ideas every year to the SEF and this year we added the Lighting Research Competition and live virtual presentations. We continually push researchers across campus to think of the audience member and how we can best deliver information in a meaningful way. I like to think I’ve come a long way since my first research poster in 1999 (pictured left, for your amusement at the insistence of our GA Madison Ferst).

Etched in stone on the front of the Bonnie is the phrase *Investing In Lifetimes*. Throughout the last three decades, the Student Engagement Forum has been an investment in our students. This investment is well captured in quotes from longtime participants such as Melinda Wagner: “The Student Engagement Forum acts as a springboard to professional pursuits” and Susan Kwilecki “The Student Engagement Forum pushed already excellent students to higher standards.” My hope is that each of you capture that spirit from interacting with the myriad of students presenting this week. Thirty years! As I look to the future, this past year of mastering—well ok, becoming accustomed to—zoom, wearing masks, and knowing precisely how far apart six feet is has made it clear I have no idea what is in store for the SEF, Radford University, or each of you. However, in seeing Radford University faculty and student teams find solutions to challenges, such as a way to adapt and carry out every funded SURF proposal where the majority of planned summer research projects across the nation were canceled, I know that the future is bright for the highlander family. I cannot wait to see what the 40th and 50th renditions bring!

-With Highlander Pride, Joe Wirgau, Director of OURS

Environmental Sociology Research Session 1

Monday, April 12th, 11:00 – 11:50 am
 Zoom: 99887924433 Password: SEF2021

Incentive Driven Recycling Machine

Ashley Lambert Amber Evers Connor Elsasser
 Mariah Hicks

Faculty Mentor(s): Aysha Bodenhamer

Mountain Valley Pipeline Environmental Hazard

Jalen Mink Olivia Gilliam LeeAnne Bryant-Doyle
 Cynthia Alfaro

Faculty Mentor(s): Aysha Bodenhamer

Dining Hall Plastic & Styrofoam Waste

Monica Tobaldo Cole Lambert Justin Davis

Faculty Mentor(s): Aysha Bodenhamer

Commodities, Value and History

Monday, April 12th, 11:00 – 11:50 am
 Zoom: 95601821308 Password: SEF2021

The Sport of Kings: From Pastime of Royalty to Global Superpower

Laura deStanley

Faculty Mentor(s): Brock Cutler

The Important of Rare Earth Metals in Our Every Day Life

Grace Ferrara

Faculty Mentor(s): Brock Cutler

An Opening Dive Into The Labor and Development of Pearls As A Commodity

Blake Newton

Faculty Mentor(s): Brock Cutler

The Changes Gunpowder Brought To Warfare

Louis Rossi

Faculty Mentor(s): Brock Cutler

Gum As a Commodity and Its History

Evan Walker

Faculty Mentor(s): Brock Cutler

Summit on Environmental Justice and History

Monday, April 12th, 1:00 – 1:50 pm
 Zoom: 95601821308 Password: SEF2021

Water and Justice in the United States

Diont'e Hadden Juston Carter Amanda Dean
 Blake Newton Nathan Frazier Anne Jenkins

Faculty Mentor(s): Brock Cutler

Geospatial Science Session 1

Tuesday, April 13th, 9:30 - 10:45 am
Zoom: 99921848091 Password: SEF2021

Northern Virginia Flood Analysis Model

Rand Bohnert

Faculty Mentor(s): Charles Manyara

Estimating Losses from Hurricane Harvey Using FEMA's HAZUS-MH Model

Aaron Fuentes Pasasi

Faculty Mentor(s): Charles Manyara

Geospatial Science Session 2

Tuesday, April 13th, 3:30 - 4:45 pm
Zoom: 99921848091 Password: SEF2021

River Management of Impaired Streams in the Wolf Creek watershed in Fayette County, West Virginia.

Brandon Stanish

Faculty Mentor(s): Charles Manyara

Collection and Management of Zoning Data by Local Governments.

Jeff Brennan

Faculty Mentor(s): Charles Manyara

Opioid Overdose Deaths in Rural Virginia

Brandon Miskell

Faculty Mentor(s): Charles Manyara

Habitat Fragmentation and Animal Collisions in Virginia National Forests and Parks

Nicholas Francis

Faculty Mentor(s): Charles Manyara Andrew Foy

Hip Hop Showcase Session 1

Tuesday, April 13th, 11:00 am – 12:15 pm
 Zoom: 93907944190 Password: SEF2021



This Hip Hop Showcase will feature a live session during which we will share pre-recorded presentations on: 1) Sociology of Hip Hop, 2) Origins/History, and 3) The Four Elements. The live sessions will be moderated and attended by Sociology of Hip Hop students who welcome attendees to engage in organic conversation during and at the end of each event.

Faculty Mentor(s): Stephanie Bradley Moderators: LeeAnne Bryant-Doyle
 Tarrah Nida

Sociology of Hip Hop

Jade Hayes

Quinton Morton-Robertson

Dana Taylor

Origins & History

Rochelle Ellis

Mia Hermans

Monica Tobaldo

The Four Elements

Lew Djonkam

Amber Funderburg

Miles Jones

Heavon Ratcliff

Biology Virtual Poster Session 1

Tuesday, April 13th, 4:00 – 4:50 pm
 Zoom: 95642799778 Password: SEF2021

Continued Use of DNA Barcoding to Identify Bird-Window Collision Carcasses at Radford University

Justin McLaughlin

Faculty Mentor(s): Karen Powers

Robert Sheehy

Biology Virtual Poster Session 1

Tuesday, April 13th, 4:00 - 4:50 pm
Zoom: 95642799778 Password: SEF2021

Using A Baci Design to Assess the Effects of a Natural Gas Pipeline installation Through Mill Creek, VA: Reporting on the Pre-installation Stream Structure

Donya Mohamed

Faculty Mentor(s): Jamie Lau

Chemistry Research Session 1

Tuesday, April 13th, 2:00 - 2:50 pm
Zoom: 98522690790 Password: SEF2021

Organic Chemistry Educational Spectra

Sydney Fisher

Faculty Mentor(s): Christine Hermann

Photocatalytic Degradation of Model Pollutants using LbL-Fabricated Nanocarbon/TiO₂ Thin Film Coatings in a LED-based Mini-Photo-Reactor

Jesse Newman

Faculty Mentor(s): H. Francis Webster

Self-assembly of Functionalized Carbon Nanoparticles on Polyurethane Sponges for Enhanced Oil Absorption

Hannah Worrell

Faculty Mentor(s): H. Francis Webster

Where Has All the Mass Gone? Quantifying TSS in Headwater Streams

McKenzie Harpine

Faculty Mentor(s): Jamie Lau Kristina Stefaniak

Chemistry Research Session 2

Tuesday, April 13th, 3:00 - 3:50 pm
Zoom: 98522690790 Password: SEF2021

Counterfeit Cosmetics Compared to Name Brand

Katelyn Bishop

Faculty Mentor(s): Kristina Stefaniak

Chemistry Research Session 2

Tuesday, April 13th, 3:00 - 3:50 pm
Zoom: 98522690790 Password: SEF2021

Examination of Lead Toxicity in Field Samples and Relationship to the Development of Neurodegenerative Disease

Maci Keaton

Faculty Mentor(s): Joe Wirgau Kristina Stefaniak

Chemistry Research Session 3

Tuesday, April 13th, 4:00 - 4:50 pm
Zoom: 98522690790 Password: SEF2021

Determination of Caffeine in Black Tea

Ahyana Calloway

Faculty Mentor(s): Cindy Burkhardt

Neon Impressions: Developing a Method for Microplastic Detection Using an Ultraviolet Light- Sensitive Dye

Lucas White

Faculty Mentor(s): Amy Baliija

Highlander Research Rookie Showcase

Tuesday, April 13th, 4:00 - 6:00 pm
Zoom: 99672287552 Password: SEF2021

Relationships Among Human Trafficking Survivors

Dana Ours

Faculty Mentor(s): Maggie Pate

Do COI Primers, Environmental Variables, and Variation in Lab Techniques Affect the Biodiversity Measures or the Quality and Quantity of Environmental DNA?

Camryn Williford

Faculty Mentor(s): Tara Pelletier

Brecht and Eliot: Overtness and Subtlety

Frey Bendele

Faculty Mentor(s): David Beach

Online, Fully Autonomous Advising Program for Radford University

Grant McDonel

Faculty Mentor(s): Caleb Bradberry

Highlander Research Rookie Showcase

Tuesday, April 13th, 4:00 – 6:00 pm
 Zoom: 99672287552 Password: SEF2021

Internet Of Things (Smart home) Device Security

Sam Williams

Faculty Mentor(s): Premchand Uppuluri

Exploring QR Code Error Correction and the Role of Reed-Solomon Codes

Adam Downs

Faculty Mentor(s): Neil Sigmon

Analyzing the Presence and Concentration of Airborne Microplastics Using ImageJ Photo Analysis

Julia Buccola

Faculty Mentor(s): Rhett Herman

Examining Differing Mortality Rates for Black and White Americans in Small Metropolitan Counties of Virginia

Maia Grove

Faculty Mentor(s): Iuliia Hoban

Studying the Benefits of Retrieval Practice for High and Low Structure Builders

Jeannie Tene

Mykaela Hagen

Nina Houston

Morgan Shumaker

Faculty Mentor(s): Kathleen Arnold

Trends in Outdoor Spending: How Much is too Much?

Jeremy Armentrout

Faculty Mentor(s): Anja Whittington

How In-School Physical Therapy Is Important

MegAnne Gilmore

Faculty Mentor(s): Karen Douglas

Mary Evans

Can We Improve Well-being? A literature review of recent research on Well-being Intervention

Stephanie Annis

Allison Love

Ashley Nesmith

Caitlyn Thelen

Calla Zane

Faculty Mentor(s): Pei-Chun Tsai

Judicial Indiscretion: Legitimacy and Accountability through Judicial Conduct Enforcement

Michaela Baker

Faculty Mentor(s): Allyson Yankle

Highlander Research Rookie Showcase

Tuesday, April 13th, 4:00 - 6:00 pm
Zoom: 99672287552 Password: SEF2021

Bridging Musical Worlds: Arranging Chopin's Preludes for Solo Percussion

Hudson Crowe

Faculty Mentor(s): Matt Cataldi

Mapping Hip Hop Studies and Pedagogy

Coleen Maloney

Faculty Mentor(s): Stephanie Bradley

Honors Capstone Recap - Session 1

Tuesday, April 13th, 4:00 - 5:00 pm
Zoom: 92709281532

Thinking Hard: Measuring Physiological and Neuroendocrine Responses to Problem-Solving Challenges in a Captive Avian Social System

Drew Myers

Faculty Mentor(s): Jason Davis

The Effects of Microplastics on Mealworms (*Tenebrio molitor*)

Matt Shuma

Faculty Mentor(s): Sara O'Brien

Synthesis of Gallium Containing Organometallic Compounds

Mary Elizabeth Demmin

Faculty Mentor(s): George Harakas

Heroin Rehabilitation Programs in Virginia

Jackson Clayton

Faculty Mentor(s): Riane Bolin

Preventing Child Abuse: A Look Inside the System

Rachel Rogers

Faculty Mentor(s): Randy Matney

Psychology and Gender ResearchTuesday, April 13th, 4:00 - 6:00 pm

D2L Interactive Discussion Boards

Sound and Psychology: Psychoacoustics

Cortney Busick

Faculty Mentor(s): Ruth Riding-Malon

How Fear of Missing Out Relates to Electronic Ostracism

Cortney Busick

Faculty Mentor(s): Nicole Iannone

Pluralistic Ignorance and College Drinking: Parents' Attitudes toward Alcohol as a Moderator

Zahra Al-shimary

Kamron Body

Farah Sorokin

Faculty Mentor(s): Jeff Aspelmeier

Behind Closed Doors: Is Pluralistic Ignorance For Interpersonal Violence Moderated By Political Attitudes?

Gabriela Avalos

Bailey Graham

Faculty Mentor(s): Jeff Aspelmeier

A Missing Piece in Mainstream History of Psychology? How Do We Include Cultural Humility in Narrating a History of Psychology?

Hanako Baker

Faculty Mentor(s): Ruth Riding-Malon

College Students and Gratitude: The Impact of Professor Characteristics on College Students in the "Thank-a-Professor" Campaign

Brayden Bradbury

Mariam Abedrabo

Lauren Gwyn

Faculty Mentor(s): Stirling Barield

Is Pluralistic Ignorance within Fear of Rejection Moderated by Greek Life Affiliation?

Kaitlyn Brinkley

Linda Chu

Jack Clay

Faculty Mentor(s): Jeff Aspelmeier

The Association Between Music Listening & Workplace Performance in an Organizational Environment

Matthew Brotherton

Faculty Mentor(s): Jenessa Steele

Emotional Labor and Negative Affect: When the Show Must Go On

Caden Bullen

Coleman Gentry

Faculty Mentor(s): Nora Reilly

Psychology and Gender ResearchTuesday, April 13th, 4:00 - 6:00 pm

D2L Interactive Discussion Boards

College Students and Gratitude: A Qualitative Exploration of Emotion in the “Thank-a-Professor” Campaign Before and During the COVID-19 Pandemic.

Caden Bullen

Arianna Burnette

Dakota Langford

Faculty Mentor(s): Stirling Barfield

Job Control as a Mediator between Job Demands and Job Stress

Shanya Chandel

Faculty Mentor(s): Jenessa Steele

How Young Adults May Employ Spiritual Support to Overcome Religious Doubt: Does Older Mean Wiser?

Kara Doughtie

Faculty Mentor(s): Jenessa Steele

Are Atheists Immoral? How Students View Atheists in Public Versus Private Settings

Phoebe Dubois

Faculty Mentor(s): Jenessa Steele

R.U. Masking up? Pluralistic Ignorance within Attitudes and Intentions toward COVID-19

Phoebe Dubois

Caelan King

Carly Pullen

Hayley Grossman

Hailey Scherer

Danielle Fleenor

Faculty Mentor(s): Jeff Aspelmeier

The Roles of Testing and Feedback in Value-Directed Remembering

Felix Frost

Morgan Shumaker

Madison Presley

Faculty Mentor(s): Kathleen Arnold Catherine Middlebrooks

The Voices of Peer Support

Coleman Gentry

Nina Houston

Faculty Mentor(s): Stirling Barfield

Robot Therapists: Artificial Intelligence Machines and the Future of Psychotherapy

Daniel George

Faculty Mentor(s): Ruth Riding-Malon

College Students and Gratitude: A Qualitative Exploration on the Impact of Teachers Characteristics on Students Before and During the Pandemic Using the “Thank-A-Professor” Campaign at Radford University

Morgan Greene

Bailey Vaughan

Sydnie Wheeler

Faculty Mentor(s): Stirling Barfield

Psychology and Gender ResearchTuesday, April 13th, 4:00 - 6:00 pm

D2L Interactive Discussion Boards

Effects of Schizophrenic Symptoms on Dopamine and Affective Responses to Music in Rats

Laura Griffith

Faculty Mentor(s): Jenessa Steele

Pluralistic Ignorance within Attitudes toward Transgender Individuals is Moderated by Religious & Political Conservatism

Hayley Grossman Carly Pullen

Phoebe Dubois

Kyla Hughes

Kailynn Harris Caelan King

Faculty Mentor(s): Jeff Aspelmeier

Organizational Commitment: The Relationship Between Tenure And Absenteeism

Amy Ha

Faculty Mentor(s): Jenessa Steele

Darwin's Contributions in Shaping Psychology

Mykaela Hagen

Faculty Mentor(s): Ruth Riding-Malon

Perception of Crime in Protest Cities, BLM, and Police Reform

Mykaela Hagen

Faculty Mentor(s): Nicole Iannone

Office Annoyance: Noise, Speech, And Effects On Memory and Recall Performance

Seth Hall

Faculty Mentor(s): Jenessa Steele

A Qualitative Exploration of Gratitude and Personal Growth in College Students Using the "Thank-a-Professor" Campaign

Kimberlee Hall Brooke Johnson Daniel Parker

Faculty Mentor(s): Stirling Barfield

How Changes in Organizational Commitment (due to COVID-19) has Affected Anxiety and Depression Levels in Remote Workers.

Rachel Hopp

Faculty Mentor(s): Dr. Jenessa Steele

Trait Activation Theory: Its Role in the Validity of Personality-Based Selection Methods

Jacob Lamparella

Faculty Mentor(s): Jenessa Steele

Psychology and Gender ResearchTuesday, April 13th, 4:00 – 6:00 pm

D2L Interactive Discussion Boards

A Meta-Analysis Comparing Persons with Normal and High Blood Pressure on Measures of Cardiovascular Reactivity to Stress

Talia Neal

Faculty Mentor(s): Thomas Pierce

Group Chats and Peer Mentoring: An Investigation into The Use of GroupMe in a Peer Support Instruction Model at Radford University

Nikolas Porterfield

Faculty Mentor(s): Stirling Barfield

Celebrity Social Media Influence on Mask-Wearing Behavior

Carly Pullen

Hailey Scherer

Salena Diaz

Faculty Mentor(s): Nicole Iannone

The Impact of Media on the Endorsement of Aging Stereotypes

Carly Pullen

Faculty Mentor(s): Jenessa Steele

Is Pluralistic Ignorance within Attitudes toward seeking Mental Health Counseling Moderated by Conservatism?

Jacob Scales

Caroline Salvant

Daniel Ferguson

Faculty Mentor(s): Jeff Aspelmeier

“Let Me Tell You About My Best Friend:” How Sharing a Parasocial Relationship with Others Relates to Parasocial Relationship Connection and Belonging

Hailey Scherer

Faculty Mentor(s): Nicole Iannone

The Effects of Different Types of Parasocial Relationships on Ostracism

Hailey Scherer

Faculty Mentor(s): Jenessa Steele

How and When JOLs Facilitate Inductive Learning

Morgan Shumaker

Nina Houston

Faculty Mentor(s): Kathleen Arnold

Prior Knowledge as a Mediator of Curiosity on Learning

Ryan Taylor

Faculty Mentor(s): Jenessa Steele

Presence of 1/f Frequency Across Reaction Time Tasks & Age Groups

Talia Neal

Faculty Mentor(s): Jenessa Steele

Psychology and Gender ResearchTuesday, April 13th, 4:00 - 6:00 pm

D2L Interactive Discussion Boards

Can Outlines Enhance Essay Writing and Retention?

Ryan Taylor Morgan Shumaker Madison Presley

Jeannie Tene

Faculty Mentor(s): Kathleen Arnold

A Qualitative Exploration of Gratitude and Emotion, before and during the COVID-19 Pandemic, Using the “Thank-a-Professor” Campaign

Joi Taylor Olivia Sims Kendra Gilbert

Faculty Mentor(s): Stirling Barfield

Curiosity's Effect on Study Time and Learning

Ryan Taylor Mia Purcell Morgan Shumaker

Faculty Mentor(s): Kathleen Arnold

Studying the Benefits of Retrieval Practice for High and Low Structure Builders

Jeannie Tene Mykaela Hagen Nina Houston

Morgan Shumaker

Faculty Mentor(s): Kathleen Arnold

Pluralistic Ignorance For Premarital Sex: Is Religion A Contributor?

Darynn Via Brianna Figgins

Faculty Mentor(s): Jeff Aspelmeier

The Effects of Boundary Perspectives on Job Satisfaction and the Prevalence of Organizational Citizenship Behaviors

Dane Wurster

Faculty Mentor(s): Jenessa Steele

The Role of Employee Tenure on the Relationship Between Organizational Commitment and Job Performance.

Calla Zane

Faculty Mentor(s): Jenessa Steele

How Empathy Relates to Future Mask-Wearing Behavior Following Social Media Examples

MaKayla Dulaney Carley Pullen Hailey Scherer

Faculty Mentor(s): Nicole Iannone

Effects of Early Maternal and Sibling Separation on Behavior in Rats

Shane McClafferty Laura Griffith Claudia Paniagua-Ugarte

Sarahbeth Roberts Zoe Hannabass

Faculty Mentor(s): Pamela Jackson

Doctor of Physical Therapy ResearchTuesday, April 13th, 5:00 – 6:00 pm

Zoom: 95576031039 Password: SEF2021

Cost of Obstructive Sleep Apnea as a Comorbidity for Congestive Heart Failure

Leonardo Quiroga Quentin Pitts

Faculty Mentor(s): Adrian Aron

Project Management to Develop Leadership in Physical Therapy EducationGregory Crotser Caitlin Wynings Nikki Turner
Lane Wildman Kristen Vogelbein

Faculty Mentor(s): William Kolb

A Literature Review of Pain Management Education Across Healthcare Preparation Programs

Madison Noel

Faculty Mentor(s): Wil Kolb

A review of physical therapy practice in the Roanoke and New River Valley of VirginiaCaitlin Wynings Nikki Turner Greg Crotser
Anne Russell Moore Alina Shockley

Faculty Mentor(s): William Kolb

Citizen Leader ShowcaseTuesday, April 13th, 5:00 – 7:00 pm

Zoom: 99417904138 Password: SEF2021

Destiny Goodwyn

Faculty Mentor(s): Jean Mistele Jessica Twiest

Jordan Spence

Faculty Mentor(s): Jean Mistele

Bailey Elkins

Faculty Mentor(s): Ann Hutchens

Environmental Sociology Research Session 2

Wednesday, April 14th, 11:00 – 11:50 am
 Zoom: 99887924433 Password: SEF2021

Dining Hall Food Waste

Affiba Beke

Marah Cheek

Makyla Edmond

Raine Wright

Markayla Johnson

Faculty Mentor(s): Aysha Bodenhamer

Improving and Implementing Radford University's Climate Action Plan

Alayna Carter

Emma Kegley

Faculty Mentor(s): Aysha Bodenhamer

Flint, Michigan Water Crisis

Sheridan Dean

Trudy Dalton

Shanel Henderson

Kortnie Bernard

Faculty Mentor(s): Aysha Bodenhamer

Energy in the New River Valley

Kimberlee Hall

Oak Bradshaw

Faculty Mentor(s): Aysha Bodenhamer

Commodities, Value and History

Wednesday, April 14th, 11:00 – 11:50 am
 Zoom: 95601821308 Password: SEF2021

Smoke Gets in Your Eyes: The History of Tobacco Production and Consumption in the United States

Stephen Brumfield

Faculty Mentor(s): Brock Cutler

How Fiber Optic Cables Have Helped Shape the Information Age

Nathan Frazier

Faculty Mentor(s): Brock Cutler

Penicillin as a Commodity

Emily Mancini

Faculty Mentor(s): Brock Cutler

Insulin: The Difference Between Life and Death

Samantha Paxton

Faculty Mentor(s): Brock Cutler

Summit on Environmental Justice and History

Wednesday, April 14th, 1:00 – 1:50 pm
Zoom: 95601821308 Password: SEF2021

Corporations, Coal, and Threatened Rivers

Harry Guinivan	Victoria Cristwell	Alex Obisco
Camryn Reyburn	Cole Butler	Breanna Bell
Brian Currin		

Faculty Mentor(s): Brock Cutler

Biology Virtual Poster Session 2

Wednesday, April 14th, 1:00 – 3:00 pm
Zoom: 95642799778 Password: SEF2021

Temperature's impact on the activity on birds and mammals at a birdfeeder in Radford, Virginia

Sierra Felty	Maya Anderson	Janet Ayiku
Ninja Bowers		

Faculty Mentor(s): Sarah Foltz

Fear of the Hand that Feeds You: The effects of anthropogenic disturbances on foraging behavior in an avian social system

Drew Myers	Conner Fox	Peter Neville
James Utt		

Faculty Mentor(s): Sarah Foltz

Why do different species of birds eat at different times of the day?

Makayla Countiss	Brenna Ankrum	Kortnie Brenard
Brooklyn Byrd		

Faculty Mentor(s): Sarah Foltz

Behavioral analysis of white-tailed deer feeding patterns to determine potential sex-related hierarchical differences

Parker Edmonds	Sierra Bradley	Kylee Chitwood
Brandon Crawford		

Faculty Mentor(s): Sarah Foltz

How Long Does It Take for a Squirrel to Return to a Communal Bird Feeder After Human Interaction?

Kayla Nelson Anderson	Savannah Lancaster	Conner McCollum
Brooklyn Mulholland		

Faculty Mentor(s): Sarah Foltz

Seasonal Differences in Mourning Dove Visitations to Bird Feeders

Tessa Vigilante	Damaris Forkey	Maggie Hall
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Faculty Mentor(s): Sarah Foltz

Accelerated Research Opportunities Showcase

Wednesday, April 14th, 2:00 – 2:50 pm
Zoom: 95096942830 Password: SEF2021

To Barre or Not to Barre: Dance Movements with and without the Barre Analyzed

Skylar Roberson

Faculty Mentor(s): David Sallee

Internet Of Things (Smart home) Device Security

Sam Williams

Faculty Mentor(s): Premchand Uppuluri

Examining Differing Mortality Rates for Black and White Americans in Small Metropolitan Counties of Virginia

Maia Grove

Faculty Mentor(s): Iuliia Hoban

Can We Improve Well-being? A literature review of recent research on Well-being Intervention

Stephanie Annis

Allison Love

Ashley Nesmith

Caitlyn Thelen

Calla Zane

Faculty Mentor(s): Pei-Chun Tsai

Impact of Undergraduate Research on Student Engagement

Riley Petroski

Faculty Mentor(s): Joe Wirgau Maggie Pate

Applied Improvisation And Police Training

Kiersten Dodson

Faculty Mentor(s): Stephen Owen

Effects of Early Maternal and Sibling Separation on Behavior in Rats

Shane McClafferty

Laura Griffith

Claudia Paniagua-Ugarte

Sarahbeth Roberts

Zoe Hannabass

Faculty Mentor(s): Pamela Jackson

HHP Biomechanics Showcase 1

Wednesday, April 14th, 2:00 – 2:50 pm
Zoom: 98259618683 Password: SEF2021

Impact of Hip Lateral Rotation on Muscle Activation Patterns in the Squat

Tylor Compton

Faculty Mentor(s): David Sallee

The Impact Of Pelvic Tilt On Muscle Activation

Bailee Cox

Faculty Mentor(s): David Sallee

Swimming with Power

Alexis Curto

Faculty Mentor(s): Laura Newsome Christopher Myers

The Effect of Strapping on Muscle Activation Patterns, Timing, and Magnitude in a Clean Pull

Erin Hamaker

Faculty Mentor(s): David Sallee

Torque Values in the Knee With and Without Bracing

Cameron Sarver

Faculty Mentor(s): Laura Newsome David Sallee

Does Pre-Activation of the Quadriceps and Hamstrings Change with Ankle Bracing?

Cameron Sarver

Faculty Mentor(s): Laura Newsome David Sallee

HHP Biomechanics Showcase 2

Wednesday, April 14th, 3:00 – 3:50 pm
Zoom: 98259618683 Password: SEF2021

To Barre or Not to Barre: Dance Movements with and without the Barre Analyzed

Skylar Roberson

Faculty Mentor(s): David Sallee

Differences In Walking Patterns With Chiari Malformation Type 1 Versus Average Patterns

Matthew Wall

Faculty Mentor(s): David Sallee Laura Newsome

Comparisons of Muscle Activation and Pelvic Movement in Toe-Walker and Non-Toe-Walker Gait Patterns with Calf Stretch

Maci Keaton

Faculty Mentor(s): Dave Sallee Laura Newsome

HHP Biomechanics Showcase 2

Wednesday, April 14th, 3:00 – 3:50 pm
Zoom: 98259618683 Password: SEF2021

Pre-activation in Dancers

Megan Hodges

Faculty Mentor(s): David Sallee

Muscular Pre-activation Patterns Based On Gender

Regan Lynn

Faculty Mentor(s): David Sallee

The Impact of External Rotation of The Glenohumeral Joint on Force Production and Muscle Activation in the Deltoid and Triceps Brachi

Sam Nigra

Faculty Mentor(s): David Sallee

Interdisciplinary Research Session

Wednesday, April 14th, 4:00 – 4:50 pm
Zoom: 98477606396 Password: SEF2021

Arrivals and Departures: An Intern's View of the Radford University and Floyd Story Center Partnership

Bailey Graham

Faculty Mentor(s): Melinda Wagner

Honors Capstone Recap - Session 2

Wednesday, April 14th, 5:00 – 6:00 pm
Zoom: 92709281532

Exploration of the Spatial Relationships between Lead and Pesticide Exposures and Neurodegenerative Disease Age-Adjusted Mortality Risk in North Carolina

Maci Keaton

Faculty Mentor(s): Kathleen Poole

All About: Amazonian Mites and Bioluminescent Fungi

Hanna Jang

Faculty Mentor(s): Jason Davis

Engaging for Donations: How Nonprofit Organizations Survive in the Political Arena

Hannah White

Faculty Mentor(s): Lisa Baker-Webster

Honors Capstone Recap - Session 2

Wednesday, April 14th, 5:00 - 6:00
pm Zoom: 92709281532

What Do Graduated High Schoolers Think About Their Schooling Experiences and The Overall Secondary School System?

Alayna Johnson

Faculty Mentor(s): Kristan Morrison

Pluralistic Ignorance and Trans-Prejudice

Caelan King

Faculty Mentor(s): Jeffery Aspelmeier

Honors Education Panel

Wednesday, April 14th, 6:00 - 6:30 pm
Zoom: 92709281532

Addressing Attitudinal Barriers to Preschool Inclusion through Professional Development

Melanie Allen

Faculty Mentor(s): Elizabeth Altieri

Not Your Typical Kind of Homework

Alexis Epperly

Faculty Mentor(s): Boyoung Park

The Ideal Space: Physical Elements in Classrooms and their Effects on Students

Bobbi Ferguson

Faculty Mentor(s): Kristan Morrison

Surveying the Impact of Undergraduate Research Experiences at Radford University

Samantha Doncaster

Faculty Mentor(s): Amanda Bozack Joe Wirgau Maggie Pate

Resegregation: History of Race in Education and Its Effects Today

Alyssa Foster

Faculty Mentor(s): Kristan Morrison

Honors Science PanelWednesday, April 14th, 6:30 – 7:00 pm

Zoom: 92709281532

A Qualitative Study on the Components of e-Liquids Studied Using GC-MS

Allison McBride

Faculty Mentor(s): Kristina Stefaniak

Java Math Calculator

Nalani Story

Faculty Mentor(s): Shawn Brenneman

Exploring Reed-Solomon Codes and Their Role in Providing Reliable Communications

Sarah Church

Faculty Mentor(s): Neil Sigmon

Honors Social Science Panel 1Wednesday, April 14th, 7:00 – 7:30 pm

Zoom: 92709281532

The Play of The Past

Angie Juodagalvis

Faculty Mentor(s): Johnny Moore

Radford University Student Preferences for Course Delivery Academic Year 2020-2021

Evans Thomspon

Faculty Mentor(s): Bienstock Carol

How Media Representations of Autism Affect Bias Towards Those with Autism

Alison Williams

Faculty Mentor(s): Nicole Iannone Laura Parker

Mental Health In Guyana

Erykah Vanier

Faculty Mentor(s): Ann Elliott

Honors Social Science Panel 2Wednesday, April 14th, 7:30 – 8:00 pm

Zoom: 92709281532

Athletic Burnout: Measuring Gender Differences in College Athletes

Tyler Blalock

Faculty Mentor(s): Nicole Iannone

Effects of Media Misrepresentation of the Columbine Shooters

Breanna Sharrett

Faculty Mentor(s): Kyshawn Smith

America's Attitude Toward Prisons: A Test of the Penal Escalation Hypothesis

Noah Staples

Faculty Mentor(s): Riane Bolin

Korean Pop ShowcaseWednesday, April 14th, 5:30 – 6:00 pm

Zoom: 94848191056 Password: SEF2021

Korean Pop: The Unique History and Culture Behind Its Popularity

Mailey Paupore

Haleigh McEldowney

Jaylaysia Irizarry

Jennifer Tabulov

Kim Bythewood

Lauryl Washington

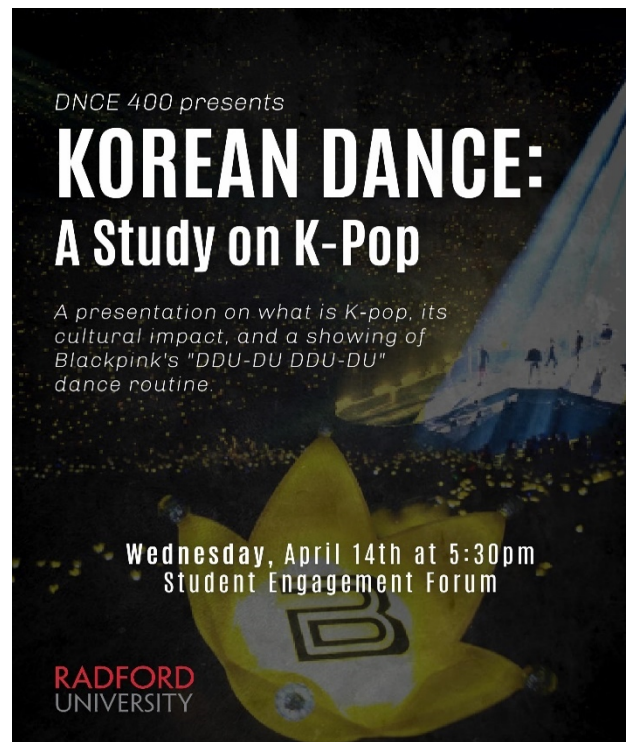
Prince Ewusie

Sarah Kadel

Faculty Mentor(s): Ji-Eun Lee

Seok Jin Han (Korea National University of Arts)

We welcome you to our showcase that exhibits our findings on the Korean culture through our multimedia presentation.



Lightning Research Competition

Wednesday, April 14th, 6:00 – 7:30 pm
Zoom: 99672287552 Password: SEF2021

Come watch undergraduate students accomplish the challenging task of concisely communicating the importance and findings of their research to a general educated audience in the fastest three minutes in research. The winner's will be selected by a panel of Radford University alumni.

Assessment of *Nosema* spp. parasitism in bumblebees of Roanoke and New River Valleys in Virginia **Binuk Samarasinghe**

Archaeopteryx: Looking Beyond The Bird **Ling Jie Gu**

Bridging Musical Worlds: Arranging Chopin's Preludes for Solo Percussion **Hudson Crowe**

Creation of a "Plastic-Dye" Database to Determine Microplastic Types in Aquatic Environments **Emily Cardoso**

Don't Touch My Data: Internet of Things Security **Sam Williams**

Exploration of the Spatial Relationships between Lead and Pesticide Exposures and Neurodegenerative Disease Age-Adjusted Mortality Risk in North Carolina **Maci Keaton**

Exploring QR Code Error Correction and the Role of Reed-Solomon Codes **Adam Downs**

How Young Adults May Employ Spiritual Support to Overcome Religious Doubt: Does Older Mean Wiser? **Kara Doughtie**

Impact of Undergraduate Research on Student Engagement **Riley Petroski**

Relationships Among Human Trafficking Survivors **Dana Ours**

To Barre or Not to Barre: Dance Movements with and without the Barre Analyzed **Skylar Roberson**

I was initially wary that a non-traditional research project would not be taken seriously by most. However, the OURS team absolutely proved me wrong, and it is because of their belief in my work that I have the opportunity to study things I otherwise couldn't at Radford and share my work with the world.

-Hudson Crowe, Sophomore Music Major

Current Research in Forensic ScienceThursday, April 15th, 8:00 am – 12:00 pm

Zoom: 99954677331 Password: SEF2021

Metal Determination in E-liquids from 9 Commercial Brands by ICP-OES

Allison McBride

Faculty Mentor(s): Donna Boyd Kristina Stefaniak

The Value of Histology in Forensic Autopsies

Isabella Brothers

Faculty Mentor(s): Donna Boyd

Sexual Dimorphism of the Lumbar Vertebrae

Pearl Moore

Faculty Mentor(s): Donna Boyd

Frequentist v. Bayesian Statistics in Forensic Science: The Differences Among Them and Recommendations for U.S. Practitioners

Noah Staples

Faculty Mentor(s): Donna Boyd

The Effect of Next Generation Sequencing on Cold Cases

Stephanie Crouch

Faculty Mentor(s): Donna Boyd

Application of Using Raman Spectroscopy for the Discrimination of Cannabis and Hemp

Emily Whealton

Faculty Mentor(s): Donna Boyd

DNA Recovery from Deteriorating Hair Samples

Hannah Roberts

Faculty Mentor(s): Donna Boyd

Skull-to-camera distance for use in facial approximation

Branham James

Faculty Mentor(s): Donna Boyd

Quantitative Forensic Analysis of Lipsticks Through Gas Chromatography-Mass Spectrophotometry

Rayshell Torres-Santana

Faculty Mentor(s): Cindy Burkhardt Donna Boyd

Examining the effects of scavengers on the concealment of skeletal trauma and decomposition rate

Katie Hewlett

Faculty Mentor(s): Donna Boyd

The Effects of Alcoholism on Bone Repair Rates

Taylor Sharpe

Faculty Mentor(s): Donna Boyd

Current Research in Forensic ScienceThursday, April 15th, 8:00 am – 12:00 pm

Zoom: 99954677331 Password: SEF2021

The Effects of Varied Ecological Diversity on the Rates of Animal Scavenging in the Appalachian Mountain Region: A comparative study of animal scavenging patterns in Selu Conservancy and Radford University

Victoria Pate

Faculty Mentor(s): Donna Boyd

Sex and Gender Estimation in Forensic Anthropology and the Identification of Transgender Individuals

Dakota Taylor

Faculty Mentor(s): Donna Boyd

A Comparative Study of Prehistoric Dental Wear and Modern Dental Wear

Sarah Klein

Faculty Mentor(s): Donna Boyd

Accuracy and Precision of Using Humerus Length for Stature Estimation

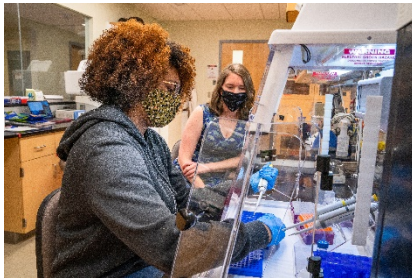
Kimber Duke

Faculty Mentor(s): Donna Boyd

Skeletal evidence of slavery

Kamaiah Jamieson

Faculty Mentor(s): Donna Boyd



Geospatial Science Session 3

Thursday, April 15th, 3:30 - 4:45 pm
Zoom: 99921848091 Password: SEF2021

Emerald Ash Borer

Andrew Lemmon

Faculty Mentor(s): Charles Manyara

Regional Predictive Gis Model for Maya Settlements in the Greater Petén Region

Aaron Fuentes Pasasi

Faculty Mentor(s): Charles Manyara

Environmental Justice and Low Birth Weight

Katy Mayo

Faculty Mentor(s): Charles Manyara

Drone 3D Elevation Profile

Andrew Lemmon

Faculty Mentor(s): Charles Manyara

The Rookies Program is more than just research, it's a community, and its one I'm lucky to be a part of.

- Julia Buccola, Freshman Physics Major



OURS CARES Awards

Thursday, April 15th, 6:00 – 6:30 pm
Zoom: 99672287552 Password: SEF2021

We welcome everyone to the inaugural OURS CARES (Office of Undergraduate Research & Scholarship Creative Arts and Research Excellence: Scholar) Awards: Showcasing the Best in Undergraduate Research! This virtual event will recognize students and faculty who have had significant achievements in undergraduate research throughout the past year.

OURS CARES Awards Schedule

Opening Remarks: by Joe Wirgau, Director of OURS

Summer Undergraduate Research Fellowship Program: Join us announcing and congratulating this year's recipients of the prestigious multidisciplinary student written grants at Radford University.

Lightning Research Competition: Join us in recognizing the winners of the fastest three minutes in research and a repeat performance of the winning entry.

Outstanding Undergraduate Research Mentor Award: Join us in the announcement of the two inaugural award recipients, each of whom have demonstrated their commitment to Student Development, Creating Opportunities, Dissemination, Equity and Inclusion, and Career Development.

Highlander Research Rookies: The Highlander Research Rookies Program was created to encourage and promote opportunities for research-based engagement and learning. Join us in sharing in their reflections on their growth, and accomplishments from this past year.

Excellence in Mentored Research & Creative Inquiry: Join us in celebrating the Faculty-student teams that reached the highest levels of dissemination in the 2020 AY. Keynote address by Maci Keaton, Allied Health Science, Class of 2021.

Accelerated Research Opportunities- Living Learning Community: Join us in reflections of these awesome freshmen who found a way even during a global pandemic to create new knowledge.

Research Scholar Transcript Designation: All of the recipients being celebrated have created new human understanding of the world, across a rich and diverse set of research areas. They have also spent at least two semesters persevering to find answers to “wicked” problems and sharing their findings with the larger community.

Graduate Criminal Justice Showcase 1

Thursday, April 15th, 6:30 - 8:00 pm
Zoom: 97259662209 Password: SEF2021

The Effects of Community Policing on Public Satisfaction Rates with Law Enforcement

Allen Minnick

Faculty Mentor(s): Maggie Pate

The Influence of Race and Age on Police Use of Force

Preston Bussey

Faculty Mentor(s): Margaret Pate

The Influence of Race and Media on Police Misconduct

Kyle Cardenas

Faculty Mentor(s): Margaret Pate

Islamic Hate Crimes and Their Relation to Geographic Location Following 9/11

Abigail Collins

Faculty Mentor(s): Margaret Pate

The Impact of Experiencing Child Abuse as it Relates to Adult Offending Behaviors

Megan Graybill

Faculty Mentor(s): Margaret Pate

Influences On Adolescents

Taylor Hover

Faculty Mentor(s): Margaret Pate

Do Community Policing Efforts Improve Police Legitimacy?

Valente Perez

Faculty Mentor(s): Margaret Pate

Police Stress and the Effect on Domestic Violence Rates

Kathleen Stiltner

Faculty Mentor(s): Margaret Pate

Mitigated and Aggravated Circumstances in Capital Cases

Jessica Wileman

Faculty Mentor(s): Margaret Pate

Commodities, Value and History

Friday, April 16th, 11:00 - 11:50 am
 Zoom: 95601821308 Password: SEF2021

Tequila: A History of a Drink Like No Other

Jalen Alford

Faculty Mentor(s): Brock Cutler

Beer: An Essential Commodity of the Ancient World

Jason Dulin

Faculty Mentor(s): Brock Cutler

Chocolate: Earth's Favorite Sweet

John Owings

Faculty Mentor(s): Brock Cutler

A History of Moonshining in the South

Jack Tresky

Faculty Mentor(s): Brock Cutler

Summit on Environmental Justice and History

Friday, April 16th, 1:00 - 1:50 pm
 Zoom: 95601821308 Password: SEF2021

Agricultural Crises meet Human Crises

Zack Dalton

John Campbell

Connor Harper

Trent Keatley

Nick Petrovich

Paige Emmer

Jason Dulin

Faculty Mentor(s): Brock Cutler

Art History Showcase

Asynchronous

The Art and Visual Culture of the Indus Valley Civilization

Maichal Valentine

Faculty Mentor(s): Carlee Bradbury

Biology Virtual Session

Asynchronous

Surveillance for oral and respiratory viruses on the Radford Campus

Joseph Mayes Jr

Faculty Mentor(s): Justin Anderson

Do COI Primers, Environmental Variables, and Variation in Lab Techniques Affect the Biodiversity Measures or the Quality and Quantity of Environmental DNA?

Camryn Williford

Faculty Mentor(s): Tara Pelletier

Phylogenetic Diversity In High Traffic Areas

McKeighla Brown

Chantel Cook

Bryan Caswell

Diont'e Hadden

Stacy Malcolm

Faculty Mentor(s): Tara Pelletier

The Impact of Foot Traffic on Biodiversity

Steven Busser

Keasia Clark

Michael Edwards

Rebecca Gardiner

Faculty Mentor(s): Tara Pelletier

Comparing Biodiversity in High and Low Traffic Areas Around Radford

Nathan Nall

Jeremy Thomas

Cameron Price

Jadelyn Smith

Amanda Wells

Lauren Printz

Shane McClafferty

Faculty Mentor(s): Tara Pelletier

Anthracite versus the Gut biome of *Gryllodes sigillatus*, *Dermestes Maculatus*, and *Diestrammena asynamora*

Gabriel Hessler

Faculty Mentor(s): Jason Davis

Graduate Criminal Justice Showcase 2

Asynchronous

Community Policing: Is It Being Used And To What Extent?

Maxwell Beavers

Faculty Mentor(s): Margaret Pate

How Gender and Years of Experience Effect Police Officers' Reported Stress Levels

Kylie Duncan

Faculty Mentor(s): Margaret Pate

Attorney Gender and Dispute Outcomes

Rachel Helfgott

Faculty Mentor(s): Margaret Pate

Graduate Criminal Justice Showcase 2

Asynchronous

The Code of Silence

Alexandrea Herrera

Faculty Mentor(s): Margaret Pate

Wrongful Convictions and Racial Disparities

Tatiana Hite

Faculty Mentor(s): Margaret Pate

Effect female police officers have on female victims of domestic violence

Emily Kelten

Faculty Mentor(s): Margaret Pate

The effect of probation on recidivism

Andrew Kidd

Faculty Mentor(s): Margaret Pate

Treatment for Women

Brianna Scott

Faculty Mentor(s): Margaret Pate

Joshua Vaught

Faculty Mentor(s): Margaret Pate

Interdisciplinary Asynchronous Presentations

Asynchronous

Universal Design Inside the Fashion Design Industry

Kiley Lewis

Faculty Mentor(s): Tammy Robinson

Preferred Or Non-Preferred? How Complex Can You Get? An Investigation Of Syntactic Complexity In Preferred and Non-Preferred Tasks.

Mikayla Hoch

LeeAnn Long

Faculty Mentor(s): Michelle Lenhart

Shared Book Reading: Encouraging Language at Home

Jade Murray

Faculty Mentor(s): Mariam Abdelaziz

Online Resource for Introductory Geology Lab Courses

Grace Psenicska

Faculty Mentor(s): Parvinder Sethi Vik Liogys

Interdisciplinary Asynchronous Presentations

Asynchronous

Postcards From The Pandemic: A Pulaski Memoir Artist Talk

Leslie King

Faculty Mentor(s): Brent Web

Archaeopteryx: Looking Beyond the Bird

Ling Jie Gu

Faculty Mentor(s): George Stephenson

Designing Tourism Experiences: Mary Draper Ingles in Radford

Shiloh Lyttle

Faculty Mentor(s): Anita Zatori

Learning from Disney: How to Create Extraordinary Experiences

Richard Bentley

Faculty Mentor(s): Anita Zatori

A Benchmark Perception of Archaeology in Popular Culture: As Seen Through Video Games

Kara Keeseey

Faculty Mentor(s): David Anderson

Quantitative Analysis of Hemp Products to Determine the Concentration of THC Using GC-MS

Emily Whealton

Faculty Mentor(s): Cindy Burkhardt

Production Technology Showcase

Asynchronous

The School of Communication proudly presents the 5th Annual Production Technology Showcase containing some of the best video and audio work of the year.

Molly Bias

Angel Pacheco

Nick Bailey

Stephanie Hazelhoff

Brooke Parish

Hunter Grobosky

Kayla Blaszczyk

James Pace

Justin Geary



Undergraduate Criminal Justice Showcase

Asynchronous

Mass Incarceration in the United States

Elizabeth Barrie

Faculty Mentor(s): Eric Snow

Marijuana Legalization

James Binner

Faculty Mentor(s): Eric Snow

Human Trafficking

Savannah Hinson

Faculty Mentor(s): Eric Snow

Reentry & Recidivism

Michael McCarty

Faculty Mentor(s): Eric Snow

Overdoses and the Opioid Crisis

Kima Robinson

Faculty Mentor(s): Eric Snow

Managing Gangs Within Corrections

Taylor Sharpe

Faculty Mentor(s): Eric Snow

Power Abuse Among Police Officers

Elise Beahm

Faculty Mentor(s): Eric Snow

Effects of Solitary Confinement on Prison Inmates

Ashley Denney

Faculty Mentor(s): Eric Snow

Capital Punishment

Megan Filardi

Faculty Mentor(s): Eric Snow

The Probation System

Trinity Harris

Faculty Mentor(s): Eric Snow

Drug Trafficking Into The United States

Ben Hubert

Faculty Mentor(s): Eric Snow

Undergraduate Criminal Justice Showcase

Asynchronous

Law Enforcement Corruption and Brutality

Madelyn Huff

Faculty Mentor(s): Eric Snow

Security Reform on Federal Property

Emily Lane

Faculty Mentor(s): Eric Snow

Mandatory Minimum Sentencing

Zoe Moffett

Faculty Mentor(s): Eric Snow

Mental Health in Criminal Justice

Raymond Radford

Faculty Mentor(s): Eric Snow

Evolution of Law Enforcement Training

Frederick Shiner

Faculty Mentor(s): Eric Snow

Sociological Disparities Within The Criminal Justice System

Victoria Vanasse-Graham

Faculty Mentor(s): Eric Snow

Notes:

DNCE 400 presents

KOREAN DANCE: A Study on K-Pop

A presentation on what is K-pop, its cultural impact, and a showing of Blackpink's "DDU-DU DDU-DU" dance routine.

**Wednesday, April 14th at 5:30pm
Student Engagement Forum**

RADFORD
UNIVERSITY

See you next year!

RADFORD
UNIVERSITY

Office of Undergraduate
Research and Scholarship