



FALL 2023
STUDENT SHOWCASE FOR
RESEARCH
& CREATIVE
INQUIRY

Longwood University's campus-wide student showcase is open to all who wish to attend. Students will present their projects in the form of posters, oral presentations, and performances.

WEDNESDAY · 15 NOVEMBER 2023 · 1 — 5:30 P.M.

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Acknowledgements

Student Showcase Organizing Committee

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The members of the Student Showcase Organizing Committee would like to thank the following offices and organizations on campus for support:

Academic Affairs
Cormier Honors College
Digital Education Collaborative
Greenwood Library

Overview Schedule

November 15, 2023

Performances

Communication Studies and Theatre Arts Center- Room 101

1:00-1:30 P.M- THEA 448- Integrated Arts Theater
4:00-5:30 P.M- THEA 320- Directing- 10-Minute Plays

Rotunda- Room 108

2:45-3:15 P.M- THEA 113- Acting I- Monologues

Visual Arts

Bedford 111

1:00-3:00 P.M- ART 462- Professional Practices

Rotunda- Blackwell Ballroom Balcony

3:30-4:30 P.M.- CTZN 110- Spaces for Seeing

Oral Presentations

Rotunda –Virginia Room and Prince Edward Room

9:00 A.M.-6:00 P.M- ENGL 320- Critical Theory and ENGL 461- Literary Criticism

Rotunda – Room 116

1:00-5:00 P.M- BIOL 251- Introduction to Ecology and Evolution and BIOL 488- Biology Senior Seminar

Rotunda – Room 115

1:00-2:30 P.M- HONS 295- Unpacking Study Abroad and SOWK 495- Ghana Study Abroad
3:00-4:30 P.M- SOCL 320- Sociology of Education and Independent Research Projects

Rotunda – Room 108

3:15-4:15 P.M- MUSC 310- Music Entrepreneurship

Poster Presentations

Poster Session I- Blackwell Ballroom, 1:00 – 2:00 P.M.

BIOL, NURS, PHYS, PSYC

Poster Session II- Blackwell Ballroom, 2:15 – 3:15 P.M.

Perspectives on Research in Science and Mathematics, Independent Research, CTZN, ENGL, HIST, SPED

Poster Session III- Blackwell Ballroom, 3:30 – 4:30 P.M.

Cormier Honors College for Citizen Scholars, BIOL, EDUC, MATH, SPED

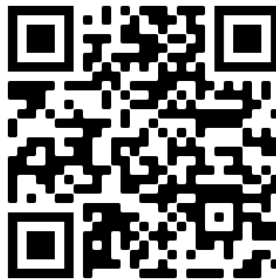
3-Minute Presentation Competition

The 3 Minute Presentation Competition is the newest addition to the Fall Student Showcase for Research and Creative Inquiry.

Three minute thesis (3MT) is an international, graduate-level initiative that started in Australia at Queensland University and is now used by university programs across the United States. At Longwood, we will hold a Three Minute Presentation (3MP) competition as a modified version of 3MT. The 3MP allows students to share how their research, inquiry, and studies will help them make a difference in their chosen careers through a highly polished and practiced three-minute oral presentation. 3MP presenters are allowed to have one slide and presentations need to be appropriate to non-specialist audiences so anyone can understand the potential impact of their research.

Check out the Fall 2023 3MP Competition submissions on the dedicated Fall 3 Minute Presentation Competition site on Longwood University's Digital Commons. The winners of the competition will be announced after the completion of the Fall Student Showcase.

<https://digitalcommons.longwood.edu/fall3mp/>



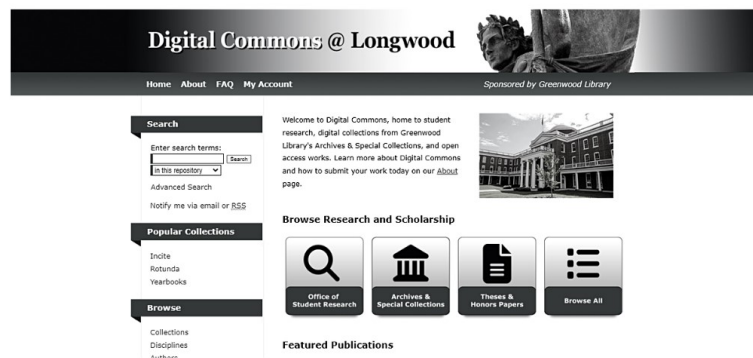
Digital Commons



We Help Share Your Research

ABOUT DIGITAL COMMONS

Digital Commons is the institutional repository at Longwood University, a space where research and projects from faculty and students can be digitally preserved and provide open access for further research.



BENEFITS OF SUBMITTING



Discoverability

Link your work on resumes and be discoverable through major search engines like Google.



Preservation & Storage

Easily pull up your work with a Google search: access multiple files including videos, PDFs, and more.



Open Access Publication

Establish publication dates to prevent copyright theft and share your work with other researchers.

WHAT CAN I SUBMIT?

You can submit your entire poster or paper (Word, PowerPoint, PDF, etc.) or just an abstract or sample of the results. You can submit a picture of your artwork or a video of your presentation. You may submit multiple files and many different formats are accepted.

HOW DO I SUBMIT TO DIGITAL COMMONS?

Scan the QR code to view the Digital Commons page dedicated to the Fall Showcase for Research and Creative Inquiry.



Visit <https://digitalcommons.longwood.edu> to explore Digital Commons.
Email questions to digitalcommons@longwood.edu

Theatre, Performances

Theatre 448 – Integrated Arts Theatre

CSTAC 101

1:00-1:30 P.M

Faculty mentor, Dr. Ronda Scarrow

Madysen Tillman, Abigail Bowden, Matthew Gayhart, Kristina Challis, Anna Waite, Katie Conroy, Haley Skowysz, Sydney Pedigo, Alayna Mazingo, Emily Boeckle, Kyla Gentry, Taylor Dody, Harrison Dennard, Katie Mulligan, Morgan Kelly, Lindsey Brown

Changing the Classroom One Art at A Time

Theatre 113 – Acting I

Rotunda 108

2:45-3:15 P.M

Faculty mentor, Professor RJ Magee

Monologue performances by members of Acting I class

Morgan Aboul-Husn

Over the Moon, by Joseph Arnone

Raine Bence

Fleabag, by Phoebe Waller-Bridge

Sara Conner

What Men Live By, by Virginia Church (story by Leo Tolstoy)

Sebastian Eady

The Princess and the Frog, by John Musker, Ron Clements, and Rob Edwards

Cierra Jeffers

Bridgerton (based on the book series by Julia Quinn)

Abby Kesling

The Valiant, by Holworthy Hall

Maggie Kittrell

Mean Girls, by Tina Fey

Emma Piper

Once Upon a Time, by Adam Horowitz and Edward Kitsis

Theatre 320 – Directing

CSTAC 101

4:00-5:30 P.M

Faculty mentor, Dr. Bruce Speas

Katy Mulligan, Micaila Tait, Cierra Yuille, Frank Anthony Cardella, and Natalie Masaitis

10-Minute Plays

Visual Arts

Art 462 – Professional Practices

Bedford 111

1:00-3:00 P.M

Students from ART 462: Professional Practices will present their senior project proposals. These presentations will showcase each student's research and development toward their senior exhibition held at the Longwood Center for Visual Art each spring.

Maggie Cornelius, Kaitlin Hardt, Destiny Hunt, Kat Leonard, Audrey MacMeekin, Nyx Mayo, Carleigh Reiffer, Hannah Smith, Connor Thompson, and Abigail Woody

Citizen 110 – Spaces for Seeing

Rotunda- Blackwell Ballroom Balcony

3:30-4:30 P.M

Faculty mentor, Prof. Alex Grabiec

Taylor Blount, Kyndal Carson, Maddie Collins, Diana Cuartas, Brianne Dawson, Malik Edwards, Dara Enzmann, Sunny Ferren, Jordan Fitzgerald, Stella Graham, Tucker Hartz, Lily Hayostek, Breanna Hoese, Madison Howell, Madison Mocello, Ryland Patterson, Melisson Piercy, Andrew Riddle, Saxby Sunderland, Claire Weiss, Callie Whitehead, Minjee Yi

Contemporary Citizenship

English Oral Presentations: Critical Theory, Literary Criticism

Rotunda, Virginia Room and Prince Edward Room

9:00 a.m. – 6:00 p.m.

English 320 – Critical Theory

Faculty mentor, Dr. Sean Barry

English 461 – Literary Criticism

Faculty mentor, Dr. John Miller

Prince Edward Room

9:00-9:50- Speculative Fictions

George Wynes (ENGL 320)

George Orwell's Allegory of the Cave: Platonism in Nineteen Eighty-four

Chloe Johnson (ENGL 320)

Utopian Ecofeminism in Atwood's Oryx and Crake

Megan Borden (ENGL 320)

Intentions, Interpretations, and Isaac Asimov's Laws of Robotics

Laural Williams (ENGL 320)

Education and Gender in Frankenstein

Virginia Room

9:00-9:50- Decentering the Human

Emily Steffenhagen (ENGL 461)

The Meat of the Matter: Alien, Human, and Animal in Terry Bisson's "They're Made Out of Meat"

Kylie Wheeler (ENGL 461)

"Turtle Beach--it's completely gone": Fiction and the Anthropocene

Gabriel Evans (ENGL 461)

Dystopian Dehumanization: Genetic Mutation in Bioshock: Rapture

Virginia Room

10:00-10:50- Drama's Ends

Emma Jones (ENGL 320)
Antigone's Authority

Will Poch (ENGL 320)
Forms of Tragedy in O'Neill's Long Day's Journey into Night

Tristan Marowski (ENGL 461)
"unsex me here": Lady Macbeth's Performance of Female Masculinity

11:00-11:50- Twentieth-Century American Literature

Rylee Fletcher (ENGL 320)
Nabokov, Shelley, and Monstrous Creativity

Rachel Cannon (ENGL 461)
"Her name was Connie": Beauvoir and Bodily Autonomy in "Where Are You Going, Where Have You Been?"

Rebecca Flatley (ENGL 461)
"The way he looked said Hush": Disability in Faulkner's The Sound and the Fury

12:00-12:50- Maternal Narratives

Sarah Donahue (ENGL 320)
Motherhood and Performance in Todo sobre mi Madre

Jensen Tomalesky (ENGL 320)
Nightbitch and the Magic of Motherhood

Ken Cyrus (ENGL 320)
Alien Crabs, Space Pirates, and the Castration Complex in "Bad Traveling"

Virginia Room

1:00-1:50- Myths of Woman

Bri Pegram (ENGL 320)
"The Husband Stitch" and Female Linguistics

Dalton Whitby (ENGL 461)
"Poor unfortunate souls": Acculturation and Reception of Womanhood in Fairy Tales

Kayla Kwiatkowski (ENGL 320)
Addiction and Familial Bonds in O'Neil's Long Day's Journey into Night

Kara Burks (ENGL 320)
Distorted Identity and the Absolute Other in Little Shop of Horrors

2:00-2:50- Aesthetics and Epistemology

Pearl Siff (ENGL 320)
The Loathsome Beauty of The Picture of Dorian Gray

Andrew Abrams (ENGL 320)
Gender and the Unseen Spectator in Leigh Whannel's The Invisible Man

Marjorie Looby (ENGL 461)
"Little Regularities": Thomistic Epistemology in C.S. Lewis's That Hideous Strength

3:00-3:50- Genres of Children's Literature

Aiden Metz (ENGL 320)
Jonathan Auxier's The Night Gardener and Children's Horror

Asia Glanville (ENGL 320)
Historical Fiction, Gender, and Authority in Anna of Byzantium

Cassidy Whetstone (ENGL 461)
The Faults in Our Society: How Interpretive Communities Respond to The Fault in Our Stars

Virginia Room

4:00-4:50- Racial Fictions

Lee Kassay (ENGL 320)
Recognition and Refusal: Identity in Larsen's Passing

Sierra Sweezy (ENGL 320)
"Death is better than Bondage": Revolutionary Violence and Afrofuturism in Black Panther

William Eley (ENGL 461)
"Generic Asian Man": Double Consciousness in Interior Chinatown

5:00-5:50- Gendering Experience

Tim Mercado (ENGL 320)
Frankenstein and Gender

Em Moore (ENGL 320)
Vampires, Queer Desire, and écriture feminine in Sheridan Le Fanu's Carmilla

Breanna Smith (ENGL 461)
"Are you a watcher?": Unpacking the Male Gaze in Nerve

Grace Hartung (ENGL 461)
The Naming of Identity: The Future of Gender in Ann Leckie's Provenance

Biology Oral Presentations

Rotunda 116
1:00 – 5:00 p.m.

Biology 251 – Introduction to Evolution and Ecology

Faculty mentor, Dr. Ben Campbell

1:00-1:15

Paityn Barefoot, Hannah Newton, Ashleigh Mann
Ecological Field Research

1:15-1:30

Maddie Pierce, Sara Cox, Allison Solderich, Emily Woytanis
Ecological Field Research

1:30-1:45

Keira Trigg, Austin Hallett, Matthias Borneff
Ecological Field Research

1:45-2:00

RJ Rempert, Julia Parsons, Breann Norwood, Rachel Danzitz
Ecological Field Research

2:00-2:15

Ann Marie Mennechy, Jackie Drago, Kirsten Eberly
Ecological Field Research

2:15-2:30

Makayla Seamster, Molly Allen, Nick Bates
Ecological Field Research

2:30-2:45

Ja'Mea Henderson, Bethany Comer
Ecological Field Research

2:45-3:00

Belle Sloan, Colin Malleck, Emily Brown, Baylee Wharton
Ecological Field Research

3:00-3:15

Zoe Sawyer, Kaynia Winn, Kara Branch, Rondal Richardson
Ecological Field Research

Faculty mentor, Dr. Mark Fink

3:30-3:45

Kendra DeFilippo and Taylor Balovich

Macroinvertebrate Diversity in Different Habitats

3:45-4:00

Nick Duellman, Jaedyn Colon, and Trinity Luxeder

Biodiversity of the Appomattox River Basin

4:00-4:15

Olivia Rouse and Maggie Chapin

Macroinvertebrate Diversity Depending on Canopy Coverage

4:15-4:30

Anna Magee, Harvey Clemons-Jenkins, Mary Spengler

The Effect of Canopy Cover and Deadwood Abundance and the Diversity of Lichens and Fungi

Biology 488 – Fourth Year Biology Seminar

Faculty mentor, Dr. Amorette Barber

4:30-4:45

Melanie Rowland, Mackenzie Woody, Skylar Irvin, Angel Stanley, Xavier Holman

The community effort to stop the plant that swallowed the south

Study Abroad Oral Presentations

Rotunda 115
1:00 – 2:30 p.m.

Honors 295 – Unpacking Study Abroad

Faculty mentor, Dr. Emily Kane

1:00-2:00

Grace Bailey, Blake Brooks, Rachel Cannon, Emelie Daniels, Nina Hederich, Marjorie Looby, Sarah Roquemore, Emily Steffenhagen, Maggie Taylor, Thomas Wiles

Experiencing Study Abroad: Critical Reflections on Extraordinary Learning

Social Work 495 – Ghana: Globalization, Cultural Heritages, & Social Justice

Faculty mentor, Dr. Erica Brown-Meredith

2:00-2:30

Ky'Leah Walls, MacTayla Joyner

The Beginning is Not the End: A Textual Narrative on the Strength of Ghana's History and the Ancestral Impact

Sociology and Independent Research Oral Presentations

Rotunda 115
3:00 – 4:30 p.m.

Sociology 320 – Sociology of Education

Faculty mentor, Dr. Lee Bidwell

3:00-3:15

Ella Ackerman, Aidan Brown, Holly Hill, Paige Lampl, Sara Lisenby, Sydney Pedigo, Josephine Schrum, Charlotte Sellers

Understanding and Addressing the Teacher Shortage

Independent Research

3:15-3:30

Samantha Cake, (Faculty sponsor, Dr. JoEllen Pederson)

Finding Solidarity on the Appalachian Trail: Generosity in the Social Context of the Thru-Hiking Community

3:30-3:50

Sarah Donahue, (Faculty sponsor, Dr. Renee Gutierrez)

Maternity as a Monstrous Identity through La Malinche and La Llorona

3:50-4:20

Caitlyn Morley, (Faculty sponsor, Dr. David Coles)

Navigating Justice, Recognition, and Reconciliation: Lessons from the Armenian Genocide on Addressing Historical atrocity Denial and International Accountability

Music Oral Presentations

Rotunda 108
3:15– 4:15 p.m.

Music 310 – Music Entrepreneurship

Faculty mentor, Dr. Michael Waddell

3:15-3:30

Sam Harrison

Mockup of Professional Musician Website

3:30-3:45

Brian Searcy

Mock-Up of Music Tech Business

3:45-4:15

Jabrond Gamble, Daniel Ellis, Ian Wray, Donovan Burns

Music Business Mockups

Poster Session I 1:00 – 2:00 p.m.
Blackwell Ballroom

Nursing 360 – Introduction to Research and Evidence Based Practice

Faculty mentors, Prof. Melanie Swanson and Dr. Kathryn Miller

Posters 1-20

Emma Weber and Olivia Wydner

In healthcare workers in America, does the use of modern syringes, incorporating specific safety features, result in a significant reduction of needlestick injuries when compared to other needlestick injury reduction interventions?

Emily Robinson and Gabrielle Drewry

In obstetric patients who have the genetic condition Factor V Leiden thrombophilia, is there a significant difference in the reduction of pregnancy complications and increase in live birth rate while being treated with low molecular weight heparin versus aspirin?

Madeline Mollner and Gabriella Zolkowski

In patients with stage III or stage IV wounds, is there evidence to support the efficacy of negative pressure wound therapy compared to standard wound irrigation and dressing changes in terms of accelerating wound healing and improving outcomes?

Abigail Livingstone and Krista Bass

In post-operative care for adolescents, what benefits to pain management and risk of addiction would using cognitive behavioral therapy as an alternative treatment option compared to the standard opioid administration?

Anna Brautigam, Makenzie Hayes, and Teri Miller

Among nurses working in hospital settings, is there evidence to suggest that the implementation of recharge rooms positively impacts nurses' stress level, mood, focus, and overall job satisfaction compared to nurses without access to recharge rooms?

Benjie Abuan

Among nurses working in hospital settings, what is the comparative effectiveness of caffeinated beverages versus alternative stimulants on enhancing overall productivity within the workplace setting?

Madison Clegg and Samantha Proffitt

In elderly patients who require assistance with ADLs, how does promoting independence with ADL's improve depression symptoms when compared to health care professionals performing it for them?

Gabrielle Sehlhorst and Stephanie Simmons

In mechanically ventilated Intensive Care Unit patients, does the proning position result in lower incidences of ventilator associated pneumonia when compared to keeping the head of the bed above 30 degrees?

Emily Harwood and Victoria Oakey

In patients with cancer, does immunotherapy lead to improved outcomes in their physical and emotional response compared to the standard chemotherapy treatment?

Kylie Quick and Elizabeth Fugate

In sexually active women ages 18-40 what is the failure rate of Plan B contraceptive when used within 72-120 hours after intercourse compared to other non-permanent forms of contraception

Grace Dorgan and Jacob Mays

In patients admitted to medical surgical units, what is the impact of alcohol withdrawal on hospital length of stay?

Ryleigh Mahanes and Chelsea Stith

How can having true access to healthcare improve the outcomes of pediatric patients with a diagnosis of leukemia?

Lexi Funk and Sydney Loonam

Which IM injection technique is considered best practice for medication absorption in older adults, ages 65-85

Jillian Ratliff and Abigail Gill

Do patients who undergo a robotic laparoscopic cholecystectomy experience more or less postoperative pain than patients who undergo open cholecystectomy?

Grace Lewis and Taylor Sheaffer

Do non-insulin dependent diabetic patients who, in addition to their prescribed medication, walk 30 minutes per day, meet their A1C goal more quickly than non-insulin dependent diabetic patients using medications alone?

Alexis Beasley and Mary Tursic

Does RN to RN bedside report in intensive care units increase nurse satisfaction to a greater degree when compared to traditional RN to RN report?

Taylor Moore and Riley Dillon

In COPD patients experiencing acute exacerbations, what is the effect of immediate initiation of high flow oxygen, on ABGs within the first 24 hours when compared to standard care low flow oxygen. effect of high flow oxygen, compared with standard care, on quality of life

Avery Goodlin and John Schroeder

Does discharge patient education on use of Telehealth for virtual follow ups decrease 30-day readmissions for heart disease patients between the ages of 60 to 80?

Psychology 461 – Senior Capstone

Faculty mentor, Dr. Eric Laws

Posters 21-27

Peyton Coleman, Rachael Sapp, and Kedia Swaby

Effects of Focused Attention and Mantra Meditation on Anxious and Non-Anxious People

Michelle Amaya Alfaro, Logan Boe, and Jett Williams

The Effects of Background Conversation and Ambient Music on Recall

Jordan Davis-Allen, Madison Oxley, and Jordan Cunningham

The Effect of Polite and Rude Priming Words on Interrupting Behavior

Jada Shearin, Jordan Rice, and Alejandra Contreras-Ramos

The Effects of Type of Messaging on Opinions on Gun Control

Bradford Gallimore, Nicole Decker, and Miranda Upton

The Effects of Gender and Video Games on Aggressive Behavior

Holly A Wescott, Trinity M Moon, and Jade L Miller

Participant Skin Tone and Pre-Exposure to Skin Tone on Racial Implicit Bias

Physics 222 – University Physics Lab I

Faculty mentor, Dr. Michelle Parry

Posters 28-33

Tasia Lajoie, Lara van Nunen

Measuring the acceleration due to gravity

Jordan McPherson, Sean Oliva

Measuring Specific Heat Capacity

Ben Benke, Julia Novaes

Testing Archimedes' Principle by Measuring Buoyancy Force

Madison Levelle, Victoria Matheson

Measuring the Conservation of Momentum

Ethan Pettyjohn, Shane Dunford

Centripetal Force

Biology 120 – Integrative Biology

Faculty mentor, Dr. Denis Trubitsyn

Posters 34-38

Sara Baldwin, Mira Strong, Jay Geeslin, and Marissa Jennings

Protective properties of various colored materials against mutagenic properties of ultraviolet light

Conner Walters, Isaac Jebson, and Joe Jackson

A Comparison of Regular and Environmentally Friendly Anti-UV Products

Mark Betts, Bridget Robinson, Alyson Cuthbertson, and Katelyn Glover

Putting Marketing Claims to The Test: Do These Products Really Provide UV Protection?

Karmin Osborne, Mackenzie Powell, Jocelyn Escobar, and Lymaris Mayen Perez

A Comparison of Effectiveness of Various Sunscreens Against UV Light Using Yeast

Biology 326 – Cell Biology

Faculty mentor, Dr. Dale Beach

Posters 39-45

Melanie Rowland and Brionna Woolridge

The possibility of using metal cations other than calcium, to trigger yeast flocculation

Amanda Cedeno and Nicole Pinder

How does Phosphate Determine the Fate of Yeast Flocculation?

Christian Higgins and Emma Thompson

*Co-Flocculation: The ability of *Saccharomyces cerevisiae* to flocculate dependent on strain ratios*

Julia Boisvert and Gabi Quaresma

How different sugars and their concentrations affect yeast flocculation

Grace Cohen and Taylor McKinney

How do different metallic ions effect yeast flocculation?

Biology 341 – Ecology

Faculty mentor, Dr. Kenneth Fortino

Posters 46-50

Carolyn Blackwell, Madelyn Gilson, Amanda Doty, Mae Leighton

The Effect of Human Interaction on Animals Food Choices

Jade Riddle, Cara O'Beirne, Angel Stanley

Do Parasites Have a Larger Effect on Trees in Areas of Low Diversity versus High Diversity?

Abigail Henderson, Kira Edens, Mackenzie Woody, Charles Curbeam

The effects of predator density on intraspecific interactions

Zoe Averett, Helena Loucas, Bianca Minter, McKenzie Moore, Nathan O'Dell

The Degree of Interaction Between Birds and Habitat as Affected by Noise Pollution

Poster Session II 2:15 – 3:15 p.m.
Blackwell Ballroom

History 407 – Seminar in U.S. History

Faculty mentor, Dr. David Geraghty

Posters 1-9

Maccall Warner

Social Hierarchy of the Haitian revolution

Shawn Shiflett

The Effects of the Enlightenment on the American and French Revolutions

Hailey Poore

Latin revolution

Nathan McClimans

The Economic-Political Machine of South Carolina during the 18th Century

Emma Wettstein

Irish Rebels and American Influence: The Irish Revolution of 1798

Luke Fitts

Edmund Genet and American affairs

Thomas Glauda

American reaction to the polish revolution of 1830

Devon Shiflett

The Influence of Slavery on United States Foreign Policy during the Saint Domingue Revolution

History 414 – Seminar in European History

Faculty mentor, Dr. David Geraghty

Posters 10-18

Emma Gresham

The American Revolution's influence on the French Revolution

Madison Carr

American Presence during Brazilian Independence

Madison Harris

Chilean Wars of Independence

Savannah Hall

Lafayette's Presence in Revolutionary Moments

Kathryn Holloway
Religious Discourse of the Greek War of Independence

Katherine Davis
Reactions to Haitian Refugees in Philadelphia

Zuriel Robinson
The Native American and British Alliance During the American Revolution

Alexander Dale
The French Intervention in Morea

Cara Bryant
American opinion in print politics

Independent Research Posters **Posters 19-28**

Nicole Pinder, (Faculty sponsor, Dr. Dale Beach)
What genetic changes happen when yeast strain WLP888 undergoes flocculation

Amanda Doty, (Faculty sponsor, Dr. Amanda Starr)
Fungus, Frogs, and Fearless Bacteria

Taylor Pulley & Taylor McKinney, (Faculty sponsor, Dr. Amanda Starr)
*What food makes the fungus (*Batrachochytrium dendrobatidis*) grow dangerous?*

Ashleigh, Mann, (Faculty sponsor, Dr. Kathy Gee)
*Development of Effective Background Bacteria Suppression Techniques for Accurate Quantification of *Legionella* Via Culture-Based Methods*

Sarah Lacy, (Faculty sponsor, Dr. Ravi Sankar)
Coastal Change and Erosion Hazard Assessment of Banks and Victoria Islands, Canada

Bradford F. Gallimore, (Faculty sponsor, Dr. Eric Laws)
The Effect of Obsessive Compulsive Tendencies on Religiosity, Spirituality, Anxiety, and Depression

Jonathan "Jay" Holmes, (Faculty sponsor, Dr. David Geraghty)
British Empire Conflicts in The Early 18th Century

Lucas Muller, (Faculty sponsor, Dr. Giulliano Scarcelli)
Spatially Varying Corneal Mechanical Modeling to understand early stages of Keratoconus progression

Julia Boisvert, Alayna Palamar, (Faculty sponsor, Dr. Adam Franssen)
Good moms vs Bad moms due to enriching conditions

Perspectives on Research in Science and Mathematics (PRISM) Posters – Summer 2023
Posters 29-40

Abigail Sommer, (Faculty sponsor, Dr. Dina Leech)

Lake Color, Light, & Fish Senses: Method Development to Compare Fish Vision and Mechanoreception

Kassidy Owens, (Faculty sponsor, Dr. Jonathan White)

*Methionine in Cell Culture Media Significantly Reduces Pt Drug Toxicity in *S. cerevisiae**

Bianca Minter, Ashleigh Mann, (Faculty sponsor, Dr. Kathy Gee and Dr. Dale Beach)

*Practically Perfect Primers for *Legionella pneumophila* qPCR*

Claire Bain, Kimmy Farrey, (Faculty sponsor, Dr. Meg Thompson)

Does gender influence NCAA students' mental health

Kimmy Farrey, (Faculty sponsor, Dr. Meg Thompson)

NCAA Student-athlete Wellbeing Based on Age and Number of Years Competing at Institution: A Study of Mental Health, Health Promoting Environment, and Quality of Life in NCAA Student-athletes

Júlia Novaes, (Faculty sponsor, Dr. Steven Hoehner)

An Extremal Property of the Symmetric Decreasing Rearrangement

Anna Fox, (Faculty sponsor, Dr. Sanish Rai)

Building Occupancy Estimation through Machine Learning

Dakota Smith, (Faculty sponsor, Dr. Sanish Rai)

Machine Learning and Occupancy Prediction

Alec Judd Vidanes, Ryan Urban, (Faculty sponsor, Dr. Jeffrey Ledford)

Research in Polyhyperbolic Splines

Ryan Urban, Alec Vidanes, (Faculty sponsor, Dr. Jeffrey Ledford)

Polyhyperbolic Splines

Joshua Mealy, Koen Melendez, (Faculty sponsor, Dr. Julian Dymacek)

Non-negative Matrix Factorization on NFC Classification

Citizenship 327 – Stewardship of Public Waterways

Faculty mentors, Dr. Mark Fink and Dr. Melissa Rhoten

Posters 41-45

Ebony Arauz Tellez, Lyndsey Brown, Alex Davis, Lucy Ellis, Nick Freeman, Mackenzie Griffith, Antonio Harvey, Joe Jackson, Abby Marple, Shae Sloan

A Comparison of the Biodiversity of Tangier and Smith Islands of Chesapeake Bay

Abby Marple, Ebony Arauz Tellez, Lucy Ellis, Mackenzie Griffith

Demographic Analysis of the Human Communities of Tangier and Smith Islands: Part I

Nick Freeman, Joe Jackson, Antonio Harvey

Demographic Analysis of the Human Communities of Tangier and Smith Islands: Part II

Lyndsey Brown, Alex Davis, Shae Sloan

Demographic Analysis of the Human Communities of Tangier and Smith Islands: Part III

Special Education 451 – Introduction to Autism Spectrum Disorder

Faculty mentor, Dr. Aftab Khan

Posters 46-57

Kourtney Thompson and Lauren Whalen

Integrating Visual Supports into Instruction for ASD

Megan Buffkin and Grace Chandler

The Effectiveness of the TEACCH Method on Students with ASD and Maladaptive Behavior

Elly Amiss and Justin Elliott

Successful Social Outcomes for Students with Autism

Katy Martin and Teri Burrell

Effectiveness of Imitation Based Interaction on Students with Autism Spectrum Disorder

Abigail Bowden and Emma Lewis

Effectiveness of Discrete Trial Training for Autism Spectrum Disorder

Makayla Lewis and Grace Hong

How students with Autism Spectrum disorder are affected by the zone of regulation intervention program

Anastasia Appelt and Claudia Waldon

The effectiveness of using art for children with Autism

Morgan Lam and Alexis Price

The Effect of Behavior of a Person with Autism Spectrum Disorder Using Cognitive Scripts

Haley Henshaw and Jankarla Pierola

The Effectiveness of Music Therapy on Students with Autism Spectrum Disorder

Emily Trent and Sarah Hamlin

Effectiveness of the TEACCH Program for Children with Autism

Morgan Boschen and Katherina Perry

The Interlink of Social Communication Between Animal Therapy and Autism Spectrum Disorder

English 319 – Technical Writing

Faculty mentor, Dr. Elise Green

Posters 58-65

Trey Grzelecki, Sierra Sweezy

Saucy Sizzler: A Lego Design

Jackson Moehlenkamp, Elizabeth Shippee

The Thingamabob: A LEGO design

Valentin Brandis, Jordan McPherson

The Purple Cactus: A Lego Design

Kassidy Sheppard, Ken Cyrus

Dream Floor Plan: A Lego Design

Ada Hardy and Spencer Morris

S.S. Writer: A Lego Design

Rylee Fletcher, Bri Pegram

Lego's Essential Oils Stand Design

Nina Hederich, Mackenzie Tuck

Build Your Own Ken-Moblie

Quincy Sippio, Hayley Deemer

The Little Lego Castle

Poster Session III 3:30 – 4:30 p.m.
Blackwell Ballroom

Biology 250 – Introduction to Genetics and Cell Biology
Faculty mentors, Dr. Dale Beach and Dr. Amanda Starr
Posters 1-23

Drew Adams and Belle Sloan

Unlocking the Kaleidoscope: Exploring the Genetic Mosaic of Eye Color through SNPs

Madison Carter and Taylor Kneessi

SNP Expressed Through Blue/Brown Eye Color

Lily Boysworth and Melisson Piercy

The Sun in Your Eyes, A Sneeze in Your Genes, And Strong Opinions on Cilantro: A Study of Single Nucleotide Polymorphisms Within the Human Genome

Mackenzie Jerabek

The Soapy SNP

Andrew Schaefer and Rileigh De Weese

the change in phenotypic eye color as a result of an SNP

Angelina Scotece and Jada Green

The Hidden Genes: The commonality of PTC tasting and ACHOO Syndrome

Kavan Hicks and Borhan Errafay

Strands vs Snips: A look into SNPs and how they affect hair texture

Lanie Grogg and Bryce Christian

Single Nucleotide Polymorphisms Within PTC Bitter Tasting and Blue/ Brown Eyes

Sydney Jones and Javier Roldan

Single Nucleotide Polymorphisms- Cilantro Aversion and Curly Hair

Ann Marie Mennechey and Allison Solderich

Identifying photic sneeze reflex based on SNPs

Anna Wallace and Gabriella Giannelli

Genetic variations bewtween bitter tasting and photic sneeze reflex

Alicyn Lee and Mackenzie Kushner

SNP SNP... Goes The Eye Color

Julia Parsons and RJ Rempert

Single nucleotide polymorphisms for bitter tasting and curly hair

Jacqueline Drago and Maddie Pierce

Photic Sneeze Reflex and Eye Color Nucleotide Changes in Homo sapiens

Ethan Dobbins and Kenya Carrillo Hernandez

Genetic Quirks: single nucleotide variations in cilantro aversion and photic sneeze reflex

Emily Brown and Baylee Wharton

Genetic Link of Photic Sneeze reflex

Dylan Duke, Joel King and Ella Puckett

Blue or brown, curly or straight. What is the cause?

Tyler Witt and Nicholas Bates

SNPs Promote Genetic Variation

Bryce Christian and Lanie Grogg

Single Nucleotide Polymorphisms Within PTC Bitter Tasting and Blue/Brown Eyes

Keira Trigg, Erica China, and Paityn Barefoot

Effect of Single Nucleotide Polymorphisms (SNPs) on Curly Hair and Bitter Taste

Ashley Angelo and Gillian Faris

Blue or brown eyes: your genetic likelihood and how to find out

Mathematics 331 – Survey Instrument Design and Analysis

Faculty mentor, Dr. Gregg Harbaugh-Schattenkirk

Posters 24-27

Rachel Simmons, Rachel Carter, Nina Hederich, Ried Dittner, and Luis Dos Reis

Extracurricular activities, well-being, and racism

Dana Elrick, Kristin Gingell, Michelle Amaya Alfaro, Jade Miller, and Kya Carter

Mental Health in Students of Color at Longwood University

Rebecca Farmer, Nicolas Freeman, Amanda Deitz, Sarah Lacy, Daniel Miller, and Taylor Sherrod

Extracurricular Activities and Involvement Effect on Satisfaction of a Student's College Experience

Independent Project Posters – Cormier Honors College
Posters 28-31

Taylor Pulley, (Faculty sponsor, Dr. Amanda Starr)
Truth, Lies, and Opiates: Analysis of the Painkiller Drama Series

Kassidy Sheppard, (Faculty sponsor, Dr. Jennifer Miskec)
Queer Joy in Literature for Young Readers

Grace Bailey, (Faculty sponsor, Dr. William Holliday)
El Cantar de mio Cid: A Fictional Translation, Historically Scaffolded

Education 245 - Human Growth as a Function of Social, Political, and Economic Institutions

Faculty mentor, Dr. Aftab Khan
Posters 32-35

Yasmin Lopez, Seth Ratliff
The Effect of Child Care on Small Families vs. Large Families

Maya Hoffman, Kristen Diffin
The Effects of Learning Music on Children's Development

Chris Matthey, Marcus Sosa, Kendall Bailey
The impact of Parental Military Status on Children

Special Education 389 – Survey of Exceptional Children

Faculty mentor, Dr. Aftab Khan
Posters 36-43

Katie Sale and Madeline Andreson
Structured Play Groups and Their Impact on Children with ASD

AnneMarie Trench and Victoria Labott
Therapy Dogs and Their Effect on Those with Autism

Grace Lintecum and Kasey Fetty
Music therapy for speech intervention for individuals with speech disorders

Rylee Franklin
The Impact of Therapeutic Horseback Riding on Children with Autism Spectrum Disorder

Emma Dalton and Anna Habib
Dance in a Special Education Classroom

Emily Byers and Eryn Meadows
The Impact of Flexible Seating in the Classroom on Students with ADHD

Teagan Best and Laura Beth Harvey
Exercise Vs. Music on Specific Learning Disabilities

Taylor Call
Benefits of Reading Mastery along with similar reading resources for students with learning disabilities

