



FALL 2024
STUDENT SHOWCASE FOR
RESEARCH
& CREATIVE
INQUIRY

WEDNESDAY · 20 NOVEMBER 2024 · 8 A.M. — 5:30 P.M.

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Acknowledgements

Student Showcase Organizing Committee

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Jamie Krogh
Kathryn Miller
Sarah Porter
Lauretta Werner

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

Academic Affairs
Alumni and Career Services
Cormier Honors College
Digital Education Collaborative
Greenwood Library

Overview Schedule

Welcoming Remarks and Keynote Address

Rotunda – Virginia Room

9:00-9:30 A.M.- Welcoming Remarks- Dr. Larissa Smith, Provost and Vice President for Academic Affairs

Keynote Address- Dr. Sarai Blincoe, Director of Program Effectiveness and Professor of Psychology,
Longwood University

Oral Presentations- Morning Sessions

Rotunda – Prince Edward Room

9:45-11:00 A.M.- Longwood Senior Thesis Program

Rotunda – Virginia Room

10:00-11:00 A.M.- Honors 295: Unpacking Study Abroad

Performances- Morning Sessions

Communication Studies and Theatre Arts Center- Room 101

9:45-11:00 A.M.- Theatre 101: Issues in Theatre

Art Exhibition

Bedford Gallery

8:00 A.M. – 5:00 P.M.- ART 365: Contemporary Art

Poster Presentations- Morning Sessions

Blackwell Ballroom, 9:45 – 10:45 A.M.

Biology, English, Nursing, Physics, Psychology

Blackwell Ballroom, 11:00 – 12:00 P.M.

English, Independent Research, Nursing, Perspectives on Research in Science and Mathematics (PRISM)

Three Minute Presentation Competition

Rotunda – Virginia Room

12:15-12:45 P.M.- Three Minute Presentation Competition

Oral Presentations- Afternoon Sessions

Rotunda – Virginia Room

1:00-5:00 P.M.- Biology 251: Introduction to Ecology and Evolution

Rotunda – Prince Edward Room

1:00-2:45 P.M.- Independent Research and Cormier Honors College Projects

3:00-4:15 P.M.- Spanish 461- Senior Seminar in Spanish

Bedford – Room 111

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

Performances- Afternoon Sessions

Communication Studies and Theatre Arts Center- Room 101

1:00-4:00 P.M.- Theatre 389: Integrated Arts Theatre

Poster Presentations- Afternoon Sessions

Blackwell Ballroom, 1:00 – 2:00 P.M.

Biology, Citizenship, History, Special Education

Blackwell Ballroom, 2:15 – 3:15 P.M.

Chemistry, Education, History, Kinesiology, Philosophy

Blackwell Ballroom, 3:30 – 4:30 P.M.

Citizenship, Cormier Honors College for Citizen Scholars, Mathematics, Special Education

Career Development Workshops

Rotunda- Room 115

10:45-11:45am- Career Development Workshop- Highlighting Communication and Teamwork Skills

12:00pm-1:00pm- How to Successfully Prepare for a Career in Healthcare

2:30pm-3:30pm- Career Development Workshop- Highlighting Communication and Teamwork Skills

Welcome and Keynote Address

9:00 a.m. – 9:30 a.m.
Rotunda- Virginia Room

9:00 am- Welcome by Dr. Larissa Smith, Provost and Vice President for Academic Affairs

9:10 am- Keynote Address by Dr. Sarai Blincoe, Director of Program Effectiveness and Professor of Psychology, Longwood University



Dr. Sarai Blincoe is a Professor in the Department of Psychology. She joined the Longwood faculty in 2012 after earning her Ph.D. in Experimental Psychology from the University of Kentucky. She enjoys teaching social psychology, a Civitae Perspectives course on countering and preventing violent extremism. She also oversees internships for the Department of Psychology and regularly teaches the courses in the Psychology Department's professional development sequence, which use activities informed by life design and career competencies to help students prepare for life after graduation.

She also serves as Longwood's Director of Program Effectiveness. In that role she oversees the implementation of Longwood's Quality Enhancement Plan: Preparing for Post-Graduate Success.

Dr. Blincoe lives in Farmville with her husband, the talented Dr. Adam Blincoe, Senior Lecturer in Longwood's Cormier Honors College and four children, including two international high school exchange students. Her parents live just down the road as owner/operators of Bright Eyes Alpaca Retreat. She enjoys baking, tending a community garden, and hiking, and has the goal of visiting every Virginia State Park!

Career Development Workshops

10:45 A.M. – 3:30 P.M.

Want to learn how to highlight your Student Showcase presentation on your resume, cover letter, and other professional documents? Attend the Career Development Workshops to learn how to explain your communication and teamwork skills to future employers and graduate schools. The same material will be covered during both sessions so you can select a session that fits your schedule.

10:45-11:45am- Rotunda- Room 115

Career Development Workshop- Highlighting Communication and Teamwork Skills

2:30pm-3:30pm- Rotunda- Room 115

Career Development Workshop- Highlighting Communication and Teamwork Skills

Join us to discover how to effectively plan for a successful career in healthcare. This workshop will cover how to make the most of your time at Longwood by gaining experience, developing skills, taking the right courses, connecting with helpful mentors, and more.

12:00-1:00pm- Rotunda- Room 115

How to Successfully Prepare for a Career in Healthcare

3-Minute Presentation Competition

12:15 P.M. – 12:45 P.M.

Rotunda- Virginia Room

Three-minute thesis (3MT) is an international, graduate-level initiative that is 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. This event offers students the opportunity to present their research and inquiry projects through a concise and well-rehearsed three-minute oral presentation.

Participation in this 3MP Competition benefits students in several ways, including enhancing their ability to convey complex ideas succinctly and clearly, providing valuable experience in presenting to a non-expert audience, and receiving feedback from faculty judges and audience members.

Participants are allowed one slide to accompany their presentation, which should be accessible to non-expert audiences, ensuring that the potential impact of their research is clear to all.

The winners of the competition will be announced after the completion of the Fall Student Showcase.

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 Spring Showcase for Research and Creative Inquiry.



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

Email questions to digitalcommons@longwood.edu

Contemporary Art Exhibition

ART 365 Contemporary Art

8:00 a.m. – 5:00 p.m.

Bedford Gallery

What Now? Contemporary Art from the Collections of the Longwood Center for the Visual Arts (LCVA)

Faculty Mentor, Dr. Terri Sabatos

The students curated an exhibition of Contemporary Art from the Collection of the LCVA. Each student chose a specific artwork that intrigued them, researched the object and wrote an exhibition label to accompany the artwork.

Cassiana Ashe, Hayden Beasley, Haleigh Boggs, Mackenna Clark, Caroline Cromartie, Maggie Duncan, Greta Glenn, Katelynn Leonard, Audrey MackMeekin, Nix Mayo, Ashley Mazza, Nyla McEachin, Lauren Mick, Simone Moody, Nicole Orellana-Guevara, Delaney Rever, Adrianna Scott, Corinne Short, Nayla Turpin, Leah Westin, Nova Wilson, Abby Woody

Theatre 101 – Issues in Theatre, Live Performances

CSTAC 101

9:45 a.m. – 11:00 a.m.

Faculty mentor, Dr. Ronda Scarrow

9:45-10:05

Taylor Sinclair, Alexys Mayfield, Samantha Staton, Elijah Beers, Skyler Carroll, Payton Jackson
On Deaths Door

10:05-10:25

Rylee Robertson, Hayes Walton, Kamryn Stone, Meredith Lanning, Jason Nash, Peyton Curney, Aaron Asamoah, Lily Luck, Diego Diaz, Cullen Corrum
How to control gun control

10:25-10:45

Hannah Scott, Isabel Lamb, Alicia Hall, Sadie Clifford, Candace Thomas
Stop Touching Me

Theatre 389 – Integrated Arts Theatre, Live Performances

CSTAC 101

1:00 p.m. – 4:00 p.m.

Faculty mentor, Dr. Ronda Scarrow

1:00-1:20

Katherine Sale, Emma Pickering, Brennan Williams, Thomas Richman
The Fullest House

1:20-1:40

Savannah Hicks, Meghan Hyatt, Anna Habib, Carly Chiat
Best Friends - Arts and Academics Come Together as One

1:40-2:00

Eva Clawson-Keeton, Jillian Amos, Hannah Chapman, and Camden Calloway
Arts Education Live

2:00-2:20

Olivia Hopkins, Karlene Kelly, Paige Lampl, April Kendrick
Breaking News: Integrating Arts in the Classroom Improves Performance

2:20-2:40

Rylee Franklin, Tamyia Garnes, Alyssa Hagan, Allie Harton
Voices of the Future: An Educational Presidential Debate

2:40-3:00

Courtney Agee, Aidan Brown, Alyssa Inzeo, Katelyn Martin
#VoteForFusingVisualArtsAndMusic

3:00-3:20

Sarah Braham, Chloe Rada, Ryleigh Marshall, and Olivia Phillips
Breaking News! Integrating dance and music to education improves learning or does it?

3:20-3:40

Laurann Morlang, Quinn Jones, Riley Abell, Emmaline Wilbur
Live from Farmville, The Late Night Show with the Arts

Longwood Senior Thesis Program, Oral Presentations

Rotunda – Prince Edward Room

9:45 – 11:00 a.m.

9:45-10:00

Antonio Harvey, (Faculty sponsor, Dr. Andrew Yeagley)

The Investigation of the Antimicrobial and Biofilm-Disrupting Properties of Synthesized Hemibastadin Derivatives

10:00-10:15

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

Evaluation of the effects of supplemented amino acids, especially methionine, on the efficacy of platinum drugs in the yeast model organism

10:15-10:30

Lilian Jubb, (Faculty sponsor, Dr. Brandon Jackson)

*Staggering stink bugs: autotomy affects stability and locomotor performance in *Halyomorpha halys**

10:30-10:45

Christopher Sparks, (Faculty sponsor, Dr. Sean Barry)

Historicizing Virility: The Change of Masculinity in American Movie Musicals

10:45-11:00

Lee Kassay, (Faculty sponsor, Dr. David Magill)

*Self-Recognition in *Passing* and *The Color Purple**

Honors 295- Unpacking Study Abroad, Oral Presentations

Rotunda – Virginia Room

10:00 – 11:00 a.m.

Faculty mentor, Dr. Emily Kane

10:00-11:00

Amelia Adamchak, Amanda Cedeno, Alicia Godwin, Alexandra Huerta, Grace Lintecum, Edison Moscar, Sabrina Robles, Kassidy Sheppard, and Jacob Terry

After Study Abroad: Readjustment from and Reassessment of Experiential Global Learning

ART 462 – Professional Practices, Oral Presentations

Bedford 111

1:00 – 3:00 p.m.

Faculty mentor, Dr. Kathleen Kennedy

1:00-3:00

Anna Clark, Oliver Hale Daniel, Maggie Duncan, Kasey Fetty, Shaylise Jones, Asya McCall, Lauren Mick, Aaron Shropshire, Ezri Suit

Professional Practices Senior Project Proposals

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.

Independent Research and Cormier Honors College, Oral Presentations

Rotunda- Prince Edward Room

1:00 – 2:45 p.m.

1:00-1:15

Carol Dixon and Belle Olson, (Faculty sponsor, Dr. JoEllen Pederson)

Using Constructive Dialogue in Response to the Anti-DEI Movement

1:15-1:30

Amanda Wilson and Bailey Shaw, (Faculty sponsor, Dr. Chris Bjornsen)

Thinking Styles and Interpretation of Visual Images

1:30-1:50

Sydney Gomez, (Faculty sponsor, Dr. Heather Kissel)

The Mind, The Body, and Literature: A Historical Look at How Literature Answers the Mind-Body Problem

1:50-2:05

Claire Weiss, (Faculty sponsor, Dr. David Magill)

Poems Inspired by Mary Oliver

2:05-2:20

Ken Cyrus, (Faculty sponsor, Dr. Lauren May)

The Crossroads for Secondary Education: Connecting Theory and Practice

2:20-2:35

Melonee Gray, (Faculty sponsor, Dr. Sheri Oyan)

Female Presence in Jazz

BIOL 251 – Introduction to Ecology and Evolution, Oral Presentations
Rotunda- Virginia Room
1:00 – 5:00 p.m.

Faculty mentors, Dr. Jill Pestka and Dr. Ken Fortino

1:00-1:15

Amélie Williams, Olivia Whitehead, Kaitlin Rumford
Soil samples surrounding mushrooms

1:15-1:30

Isaac Jebson, Joseph Jackson, Darion Linster
The Correlation Between Leaf Length to Tree DBH and Height

1:30-1:45

Lorelei Long, Alison Sims, Shae Sloan
What's In the Water: diversity differences within running vs. still water

1:45-2:00

Cait Summersgill, Renee Davis, Lani Carwile
Insect Density in Various Grasslands

2:00-2:15

Mehgan Hinton, Micaela Crayton
Investigating Variations in Wolf Spiders Across Ecosystems

2:15-2:30

Savannah Moody, Karmin Osborne, and Rachel Vo
This Weather is Nuts!

2:30-2:45

Mayzie Hinds, Jerkiya Savage
Canopy coverage effect on Rubus leaves size

2:45-3:00

Jacob Iddings, Alexander Ward, Maame Afua Tweneboah
Humidity & Hue: A study on how moisture effects moss growth and color

3:00-3:15

Rondal Richardson
Population Growth of Yeast

3:15-3:30

Breanna Hoese, Christian Reid, Benjie Abuan

How fecundity relates to an invasive species' success when compared to native species

3:30-3:45

Mateo Kausek, Sarah Pulice, Hailee Napier, Jackson LoFiego

The inheritability of plasticity and its effect on the fitness of offspring of invasive species in different conditions

3:45-4:00

Raegan Russell, Mariana Mendoza, and Westen Wilbun

Wisconsin Fast Plant Succession Based on Environmental Factors

4:00-4:15

Riley Sowders, Aidan McDuffie, Anna Jane Dassoulas

Plant vs. Humans: The Effect of Human disturbance on Plant Growth

4:15-4:30

Mackenzie Powell, Alyson Cuthbertson, Jocelyn Escobar

Nutrient Levels and Their Differential Effects on Native and Invasive Plant Growth

4:30-4:45

Emily Serrano-Orellana, Mark Betts II, Kimora Johnson, and Kade Pearson

Evaluating the Effectiveness of Boat Decontamination Methods in Decreasing the Spread of Invasive Species

4:45-5:00

Jay Geeslin, Sara Baldwin, Emma Elwell

An Investigation of Similar Traits in Competing Invasive and Native Species

Spanish 461- Senior Seminar, Oral Presentations

Rotunda- Prince Edward Room

3:00 – 4:15 p.m.

Faculty mentor, Dr. Javier Fernández

3:00-3:20

Sarah Donahue

Género en Posguerra Civil Española: una mirada a través de la lente

3:20-3:35

Christina White

Framing Franco: Cinema as a Tool of Ideological Indoctrination and Resistance during Spain's Dictatorship

3:35-3:50

Paul Espinoza

Las dos Españas tristes

3:50-4:05

Emilio Salgado García

Euskadi on Screen: Basque Identity Through the Media

Poster Session I- 9:45 – 10:45 a.m.

Blackwell Ballroom

NURS 360 – Introduction to Research and Evidence Based Practice

Faculty mentors, Dr. Kathryn Miller and Professor Melanie Swanson

Posters 1-11

Emma Gibbs, Jayden Haley, Jordan Cooke

What is the Level of Skin Breakdown Among Incontinent Patients on a Medical Surgical Floor when using a PureWick versus Briefs over a One Month Period?

Sydney Townsend, Ellie White

What is the self-reported mental health and burn out of nurses who work day shift compared to those who work night shift?

Katie Johnson and Emily Daniel

Evaluating the Impact of Mobile Health Applications on Glycemic Control in Type 2 Diabetes: A Comparative Study of Digital vs. Traditional Monitoring Methods

Meghan Sourbeck, Takara Kaegi

In post-surgical patients on a medical-surgical unit, how does music therapy compare to standard pain management techniques in terms of effectiveness in reducing pain levels based on studies conducted in the last five years?

Gillian Faris, Gracie Madren

For residents in long-term care facilities, how do fall rates compare between facilities that have low nurse-patient ratios versus those that have high nurse-patient ratios?

Lesly Ventura and Sonya Owen

In adult smokers, how does using vape devices, compared to smoking traditional cigarettes, affect respiratory health and quality of life?

Adrianna Bryant and Mackenzie Mackey

In a medical-surgical unit, how does charge nurse leadership compared to nurse manager leadership impact staff nurse retention over one year?

Ella Torres and Xavier Munoz

Benefits of Exercise to Nurses' Compassion Fatigue

Kylee Dillane, Sophia Farascioni

Among incontinent female patients on a medical-surgical unit, does implementing in-service PureWick care education compared to passive education lead to improved patient outcomes?

Clara Fleshman, Audrey Swoger

In patients who have been diagnosed with a chronic illness, what is the effect of cognitive behavioral therapy on managing stress and coping with a prognosis compared to mindfulness-based stress reduction therapy

ENGL 378 – Law, Literature, and Difference

Faculty mentor, Dr. Marissa Bolin

Posters 12-20

Logan Gardner, Kevin Perry

Solving the Case: Detective Fiction and Murder-Boards

Spencer Simpson, Amory Wheeler, Micheila Parks

Solving the Case: Detective Fiction and Murder

Carol Dixon, Jerkiya Savage, and Jaylene Torres

Solving the Case: Detective Fiction and Murder-Boards

Rachel McClellan, Taylor Call

Solving The Case: Detective Fiction and Murder

John Spencer, Vulcan Benson

Solving the Case: Detective Fiction and Murder

Lizzie Brent, Makayla Seamster

Solving the Case: Detective Fiction and Murder-Boards

Charmaine Battle, Latalya Cummings

Solving the Case: Detective Fiction and Murder Boards

Grayson Pridgen, Jakob Comer

The Effects of Guilt on the Human Conscious presented in And Then There Were None

PHYS 222 – University Physics Lab I

Faculty mentors, Dr. Michelle Parry

Posters 21-28

Logan Smith, Julio Cortes Jr

Applying Conservation of Momentum to Colliding Carts

Ben Benke

Determining Specific Heat Capacity of Unknown Materials

Connor Green, Thomas Spencer

Consistency of the Acceleration Due to Gravity based on Inclined Planes

Andrew Cavanaugh, Elijah Tonello

Archimedes' Principle: Buoyancy Force

Martin Sawyers, Feline van Eijkelenburg

Uniform Circular Motion & Centripetal Force

Preston Mitchell, Andrew Bernhardt
Measuring Specific Heat Capacity to Determine Unknown Substances

Parker Jones, Reese Vincent
Acceleration On an Inclined Plane

BIOL 250 – Introduction to Genetics and Cell Biology

Faculty mentor, Dr. Amanda Starr
Posters 29-40

Julianna Keller and Jenna Sadlier
Golly G! What Makes My Hair Curly?

Emma Lewis and Alexis Pastore
Eye-Spy: Unraveling the Genetics of Eye Color

Samantha Quinn and Madeline Fernandez
PTC Bitter Tasting Human Genome

Benjie Abuan, Jackson Lofiego, Donovan Roberts
Bitterness, Curls and Eye Color in the Human Genome

Laura Honeycutt and Lymaris Mayen
What A Single Letter Can Tell Us About Our Physical Traits

Austin Hallett, Christian Reid
What's the Difference? Bitter Tasting Versus Eye Color SNP

Isis Bigelow, and Riley Sowders
Exploring the Genetic Link Between SNP's and Phenotypic Traits: Curly hair and Bitter Taste Aversion

Jennie Hydro, Evelyn Kreitz, Hailee Napier
Single Nucleotide Polymorphisms and understanding genetic variations within the Human Genome

Kimora Johnson and Kade Pearson
A Typo in Your DNA May Cause a SNP in Your Genome

Albert Barrie and Jacob Iddings
Can you taste bitter?

Mark Betts II, Jake Grinnell, and Dakota Bell
Eye for Eye; Hair for Hair

PSYC 461 – Psychology Capstone: Research

Faculty mentor, Dr. Stephanie Buchert

Posters 41-47

Emma Adcook, Daeron Bacon, Charity Bailey

The Effects of Parenting Style on Anxiety and Response to Stress

Rachel Carter, Grace McCain, and Ryan Field

The Effect of Stimulus Richness on Emotion Recognition

Quinn Kehoe, Mia Rodriguez, Caprice Chambers

Thats Yucky: Examining the Role of Disgust on Divergent Thinking

Emily Downer, Amanda Wilson, TJ Hunt

The Effect Aerobic Exercise on Anxiety Symptoms in College Students

Calvary Jackson, Haley Merritt, and Lilly Rogers

Romantic Relationships: The Effects of Parental Divorce

Alyssa Ashley, Jasmyn Glaze, and Amari Jordan

Gendered Minds, Primed Responses: Exploring Pain

Poster Session II- 11:00 - 12:00 p.m.
Blackwell Ballroom

NURS 360 – Introduction to Research and Evidence Based Practice

Faculty mentors, Dr. Kathryn Miller and Professor Melanie Swanson
Posters 1-11

Katelyn Glover and Carson Zabler

The effects of decreasing TPN volume per administration in Short Bowel Syndrome (SBS) patient success in transitioning to enteral autonomy as opposed to reducing the frequency of feedings in a week

Sydney Keene, Gabrielle Davison

For patients 65 and older, do follow-up visits with a provider lead to lower readmission rates than those without follow-up visits within 30 days of hospital discharge?

Luke Clemmer, Laura Bisailon

In Children with ADHD, does a Plan of Exercise Compared to No Plan of Exercise Reduce ADHD Symptoms?

Megan Witt, Chaeli Quinn

In Healthcare Workers, Does Using Soap and Water Compared to Alcohol-based Sanitizers to Wash Hands Decrease the Risk of Hospital-acquired Infections in Patients?

Olivia Holt, Anisha Marable

In pregnant women, does utilizing the Bradley Method compared to IV analgesics reduce perceived pain levels during childbirth?

Olivia Oesterheld, Chelsea Moorefield

Within 12 months post-partum, are there lower reports of post-partum depression using a pharmacological approach or holistic lifestyle changes, such as practicing self-care, in new mothers?

Gabriela Del Cid-Mias and Breanna Patterson

In acute care settings, how does telehealth, compared to in-person healthcare, impact patient satisfaction with nursing care?

Ashley Kalala and Madison Fain

In patients with chronic illness, does referral to practitioners using Eclectic/Alternative therapeutic modalities, compared to Cognitive Behavioral Therapy (CBT), result in improved mental health outcomes?

Morgan Fitz, Allie Steimer

The Effects of Tattoos and Piercings on Patient Satisfaction

Chandler Tinsley, Mallory Cochran

In Med-Surg nurses, how do therapy, support groups, and meditation as coping strategies impact patient satisfaction compared to alternative methods such as smoking/drinking and isolation?

ENGL 378 – Law, Literature, and Difference

Faculty mentor, Dr. Marissa Bolin

Posters 12-20

Madelyn Mitchell, Allison Poteat, and Hayley Meadows

Agatha Christie, Murder on the Orient Express

Jordan Myers, Anna Shegogue, Addison Wiggs

Solving the Case: Detective Fiction and Murder-Boards

Dominic Camarca, Josh Burden

Solving the Case: Detective Fiction and Murder

Ryan Gould, Tyler Jones

Solving the Case: Detective Fiction and Murder-Boards

Gabriella Ramirez, Madison Larson, Antonio Mizelli

Solving the Case Detective Fiction and Murder-Boards

Kayleigh Newman, Sydney Bottoms, Michayla Pisa

Solving the case: Detective Fiction and Murder Boards

Sydni Erwin, Payton Jackson, and Keiana Harris

Solving the Case: Detective Fiction and Murder-Boards

Independent Research

Posters 21-33

Hugh Gannon (Faculty Mentor- Dr. Don Blaheta)

Sugar Wod API

Kelly Glenn (Faculty Mentor- Dr. Wade Edwards)

The Development of Feminism in France

Kassidy Sheppard, Kendall Wieckert, Dalton Whitby (Faculty Mentor- Dr. Jennifer Miscek)

Study Abroad Toolkit

Sydney Gomez (Faculty Mentor- Dr. Chris Bjornsen)

The Effects of Social Media on Our Perception of Our Own Art and Desire to Create

Grace McCain, and Chris Cottee (Faculty Mentor- Dr. Stephanie Buchert)

Distracted While Driving: An Eye Tracker Study

Lea Amburgey & Quinn Kehoe (Faculty Mentor- Dr. Stephanie Buchert)

Emotion as a Creative Tool: Examining the Role of Sadness on Creativity

Samantha Ruano (Faculty Mentor- Dr. Sarah Porter)

Phytochemical Analysis of Acacia raddiana

Ben Benke (Faculty Mentor- Dr. Benjamin Topham)

Effect of mechanical strain on conductance of single molecule junctions

Samantha Collins (Faculty Mentor- Dr. Brandon Jackson)

Do Jumping Spiders Play with Their Food?

Mackenzie Kushner (Faculty Mentor- Dr. Brandon Jackson)

Gait Analysis of Horses After Chiropractic Adjustments

Rachel Danzitz (Faculty Mentor- Dr. Bjoern Ludwar)

Limits of Longwood's Electron Microscope: A Study in Biological Imaging

Perspectives on Research in Science and Mathematics (PRISM)

Posters 34-51

Reese Vincent, Anna Jackson (Faculty Mentor- Dr. Steven Hoehner)

Optimal Configurations for Partial Sphere Coverings

Anna Jackson, Reese Vincent (Faculty Mentor- Dr. Steven Hoehner)

Partial Sphere Covering: Part 2

Alec Judd Vidanes, Joey Baker (Faculty Mentor- Dr. Sanish Rai)

Occupancy Estimation with Machine Learning using LSTM

Joey Baker (Faculty Mentor- Dr. Sanish Rai)

Building Occupancy Estimation with Transformers

Luke Paris (Faculty Mentor- Dr. Jeffrey Ledford)

Invertibility of Operators Associated to Polyhyperbolic Splines

Kyle Rutherford (Faculty Mentor- Dr. Jeffrey Ledford)

Fundamental Functions of Interpolation Corresponding to $(\alpha^2+x^2)^{-k}$

Serenity Allen (Faculty Mentor- Dr. Kristen Boyle)

Puzzling Pairs

August Raybould, Serenity Allen (Faculty Mentor- Dr. Kristen Boyle)

Archimedes' Stomachion - A Math Teachers' Circle Activity

Joshua Boyer (Faculty Mentor- Dr. Julian Dymacek)

Using Nonnegative Matrix Factorization to Understand Bird Movement

Angelina Scotece (Faculty Mentor- Dr. Tyler St Clair)

Exploration of Flavors and Fragrances

Quinn Kukk (Faculty Mentor- Dr. Tyler St Clair)

Testing Plasticizers in PVA Hydrogels for Drug Delivery

Ashley Seiders (Faculty Mentor- Dr. Ben Topham)

Chemical control of electronic transmission through single molecule junctions in photoswitches

Jade Riddle (Faculty Mentor- Dr. Dale Beach)

Bacterial Diversity of Central Virginia Rainwater Harvesting Systems

Ashleigh Mann (Faculty Mentor- Dr. Dale Beach)

Quantifying Legionella in Roof-Harvested Rainwater Systems

Julia Parsons (Faculty Mentor- Dr. Dale Beach)

Bacterial Genomics of Water Harvesting Systems

Gabrielle Quaresma (Faculty Mentor- Dr. Amanda Starr)

Optimization of eDNA air sampling in livestock communities

Taylor Pulley (Faculty Mentor- Dr. Amanda Starr)

*Carbon and Nitrogen Influence on Enzyme Production in *Batrachochytrium dendrobatidis**

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

HIST 409 and HIST 415 – Seminars in United States and European History- World War I

Faculty mentor, Dr. David Coles

Posters 1-19

Zuriel Robinson

American Christian Nationalism in World War I

Reese Mulé

US Movie Proganda during the First World War

Savanna Bruce

American Agriculture Programs During the First World War

Jenna Lankford

American Education Reform During World War I

Caden Houchins

The Harlem Hellfighters and their Impact on Full Citizenship

Jack Kreiner

American Music of the Great War

Luca Evans

Involvement of Women on the American Homefront During WWI

Brandon Bateman

The American Socialist Party during WWI

Kat Marshall

The Use of Anti-German Propaganda in America During World War I

Wyatt Atkins

Winston Churchill's Role in the Dardanelles Campaign

Lakyne Hewitt

How the Weimar Republic was Affected After the Signing of the Treaty of Versailles

Zachary Millett

A History on the Alliances of World War One

Cassandra Nelson

The Rise of Irish Nationalism During WWI

Kadyn Bunting

Belgian Resistance during the Great War

Nicholas Gordon

Advancements In Machine Gun Technology During World War I

Austin Walter

Historical biases of the Treaty of Versailles

Thomas Wiles

The Influence of French and British Tanks on the end of Trench Warfare During the First World War

Blaise Silverman

The Effectiveness of the draft in European countries during WWI

SPED 389 – Survey of Exceptional Children

Faculty mentor, Dr. Aftab Khan

Posters 20-30

Claire Weisenburger, Allison Hess

The Benefits of Early Intervention Strategies in School-Aged Children with Speech Disorders

Kayleigh Newman, Eydie Kenny, Hunter Nolan

ADHD and non-medicated treatment

Soleil Jefferson, Kris Diffin, Aniya Johnson

Flexible Seating for Students with Autism

Alexandra Flores, Sarah Cordrey, Mary Emma Love

The Effectiveness of Lexia Core5 Program on Reading Comprehension in Children with Learning Disabilities

Sarah Mitchell, Bailey Chlebowski, Madison Dykstra

The effectiveness of "The First Step to Success Program" on children showing early signs of Behavioral Emotional Disorder

Theresa Bennett, Abby Faulkner, Reagan Threadgill

Benefits of Utilizing Sign Language to Support the Learning of Students with Specific Learning Disabilities

Reaghan Powell & Montana Longerbeam
Cognitive Therapy Benefits on Individuals With ADHD

Gracyn Herring, Kiana Lewis, David Handley
The Effectiveness of FM Systems in The Classroom for Students With Hearing Impairments

Ronald Carricato III, Solomon Davis, Adam Kate
The effectiveness of therapeutic animals on individuals with Autism Spectrum Disorder

Kira Catterton, Leah Westen
The Barktastic Benefits of Therapy Dogs for Children with Autism Spectrum Disorder

BIOL 326 – Cell Biology

Faculty mentor, Dr. Dale Beach
Posters 31-37

Kara Branch, Emily Brown, Samantha Collins
Using Different Concentrations of Potassium Nitrate to Flocculate wIP002 Yeast

Ashley Seiders, Maggie Chapin, Emily Woytanis
Investigation of Yeast Flocculation Using Variable Citrate Buffer Concentrations

Taylor Pulley, Jade Riddle, and Angie Scotece
Denaturation Station: The Effect of Guanidinium Chloride on Yeast Flocculation

Jaedyn Colon, Rachael Wade, Victoria Walden
The Effects of Monosaccharides on Yeast Flocculation

Daniel Hall, Nicholas Bates
Alkaline earth metals effect on flocculation

Allison Solderich, Ann Marie Mennechey
The Impact of Transition Metals on Yeast Flocculation

CTZN 110 – Inquiry into Citizenship

Faculty mentor, Professor Alex Grabiec

Posters 38-51

Julianna Bateman, Kaleigh Cyr, Tristan Duplissey, Ashley Gerner, Kyara Greene, Jesse Harshaw, Nathan Mertz, Sarah Moore, Madeline Price, Abigael Selkirk, Christine Shumaker, Madelynn Smith, Rayanna Yowell

Group exhibition of historic and contemporary artists

Poster Session IV- 2:15 – 3:15 p.m.

Blackwell Ballroom

HIST 416 and HIST 421 – Seminar in European History- Dictators and Resisters

Faculty mentors, Dr. Melissa Kravetz and Dr. William Holliday

Posters 1-13

Trinity Nunnally

Contradictions in Hitler's Ideology of Women

Kassandra Goetz

The Role of Education in Fascist Italy

Hailey Poore

Francisco Franco: a True Fascist?

Madeline Little

Analyzing Hitler's Use of Rhetoric and Atmosphere in Nazi Germany

Eric Whetsell

Comrades or Interlopers? The International Brigades in the Spanish Civil War

Jordan Tyler

Juan Peron and his Cult of Personality

Caleb Sullivan

Pinochet's War on Culture

Logan Cuskey

Pressured to Pacify: The Disarmament of ETA

Christian L. O'Neill

The Dominican Republic and the Parsley Massacre: anti-Haitian ideology during the early Trujillo regime

Daniel Hince

Power, Principle, Policy, and Pinochet

Lauren Trent

Bolivian Resistance: Nancahuazu Guerrilla

Nicholas Gordon

The Somoza Dynasty's Focus on Maintaining Positive U.S Relationships

EDUC 245- Human Growth, Development, and Learning

Faculty mentor, Dr. Aftab Khan

Posters 14-25

Leah Bivins, Ruth Eriksen

Effects Of Social Media and Screen Use on Children's Sleep

Taysia Howard, Victoria Arroyo

How Adverse Childhood Experiences Affects Adulthood

Brooke Bennett, Mary Zepeda

The influence of socioeconomic status on cognitive development in early childhood

Mia Barrett and Jaidan Alexander

The Effect of Parental Alcoholism on Adolescent Children

Kaylee Huntington, Caitlin Carraway

How Child Development is Affected by Parental Substance Abuse Disorder

Emmie Irace, Nicki McCormick

What can Sports do for Children?

Perry Rivera, Chloe Manley

The effect of Socio-Economic Status on Child Development

Catherine Wann, Ella Iles, Georgia Rufi

Underprivileged children affected socially within the school system

Jayce Pagano, Brando Bedroll, and Mateo Nance

Parenting Styles and Their Impacts on Child Development

Malia Altrogge, Skylar Lewis, Peter Belosevic

Screen time effects on Child Development

Alexandra Magia

The impact of social media on children and their development

KINS/PHIL 380- Doping in Sport and Society

Faculty mentors, Dr. Jo Morrison and Dr. Eric Moore
Posters 26-33

Araina Wigfal, Shelby Reed, Eliza Beavers
Steroid Use in the NFL

Chris Bennet, Andrew Riddle, Joshua Laaissaoui, Emmanuel Richards
HGH Not Worth It

Allison Hess, Madeline Dumont, Peyton Curney, and Javin King
Ethical Concerns with The World Anti-Doping Agency

Taylor Sexton, Rosalie Showalter, Alec Corwin, Kailey Toone
Cannabis in Football Players

Javin King, Allison Hess, Madeline Dumont
Use of Steroids in Tennis

Dexter Jones, Zakaria Malik and Borhan Errafay
Marijuana should not be banned in basketball

Bentley Yeatts, Sam DiLella, Hunter Manning
Human Growth Hormone in Sports

CHEM 331- Analytical Chemistry I

Faculty mentor, Dr. Sarah Porter
Posters 34-40

Ben Benke, Marcy Long, Cara O'beirne
Chemical Equilibrium in the Environment

Bryant Corbin, James Daniel, Jade Riddle
Applications of Electrochemistry

Elaina Grogg, Anaaya Monroe, Tyler Witt
Carbon Dioxide in the Air

Melissa Howard, Samantha Ruano, Tim Slater
Titration Analysis of Biochemical Systems

Albert Barrie, Kexin Li, Anna Wallace
Analytical Separations

Poster Session V- 3:30 - 4:30 p.m.
Blackwell Ballroom

CTZN 410 – Symposium on the Common Good

Faculty mentor, Dr. Eric Moore
Posters 1-5

Emily Byers, Laura Nichols, and Kristina Morton

The Vaccine Divide: Examining Political Influences on Covid-19 Vaccine Uptake

Hunter Manning, Brandon Way

Government Regulation of Business

Abigail Giles, Mary Tursic, Chelsea Stith, Alexis Beasley

Perspectives on the Affordable Care Act

Ryleigh Mahanes, Avery Goodlin, Emily Harwood, and Grace Dorgan

How does the repolarization of the two political parties affect the administration of the influenza vaccine?

MATH 331- Survey Instrument Design and Analysis

Faculty mentor, Dr. Allen G. Harbaugh-Schattenkirk
Posters 6-9

William D'Amato, Terry Scaife, and Andrew Schaefer

Unpacking Student Stress: Insights from an Academic and Athletic Perspective

Latoya Downing, Morgan Mare, Shelby Gaskill, and Athena Hughes

Nightmares/Dream Patterns and their relation to college stress

Mackenzie Lavender, Nina Bagley, Eli Thornton, Megan McConnell

A Study of Homesickness: Longwood students and a sense of belonging

SPED 451- Introduction to Autism Spectrum Disorder

Faculty mentor, Dr. Aftab Khan
Posters 10-20

Laura Beth Harvey and Callie Jackson

The LEAP Model and Young Children with Autism Spectrum Disorder

Reanna Powers, Lindsay Byrd

The Effectiveness of Noise Canceling Headphones for Students with Autism Spectrum Disorder that Struggle with Sensory Processing

- Megan Bowles and Chesney Holloman
The effect of equine therapy on students with ASD
- Teagan Best, Kaylee Suckow
Zones of Regulation Assisting Younger Elementary Students
- Sarah Cordrey, Alaina Leiva
The Effect of Virtual Reality on Social Skills of Individuals with Autism Spectrum Disorder
- Brennan Williams, Emma McCrickard
Effectiveness of Physical Activity on students with ASD
- Kammilly Morehead
The Benefits of Gardening with students with Autism
- Eva Clawson-Keeton and Mei Lavalley
The Effectiveness of Theatre on Social Development for Children with ASD
- Abby Marple and Karlene Kelly
Fur, Fins, and Feelings
- Yasmin Lopez and Kennedy Lundeen
The Effectiveness of Music Therapy on Regulating Anxiety within children with ASD

Cormier Honors College for Citizen Scholars Posters

Posters 21-47

- Olivia Hopkins, Jaimie Nix (Faculty Mentor- Dr. Ann Cralidis)
Traumatic Brain Injury and Dysphagia: An Understanding of How it Unfolds
- Jaimie Nix, Olivia Hopkins (Faculty Mentor- Dr. Ann Cralidis)
The Impact of Feeding and Swallowing Ability from a Traumatic Brain Injury: How different avenues of life are changed
- Tyler Smallwood (Faculty Mentor- Dr. Ann Cralidis)
Neural Basis of Autism Spectrum Disorder —Connection to Speech and Language
- Madi Wester (Faculty Mentor- Dr. Ann Cralidis)
Music & Dementia
- Daniel Duarte, Ashlee Wood, Nate Miller (Faculty Mentor- Dr. Denis Trubitsyn)
Protection Against UV Radiation: We Got You Covered
- Chloe Whitt, Amy Nardini, Addie Shepard, Serenity Opie (Faculty Mentor- Dr. Denis Trubitsyn)
The Numbers Game: How Much SPF Do You Really Need?

- Madison Rogers, Sarah Forman, Megan Glencer (Faculty Mentor- Dr. Denis Trubitsyn)
Protecting Skin Against UV Radiation with Oil: Beyond Deep Frying
- Jenna Hilliard, Hallie Lescalleet, Hailey Lindsay, Emme Quinn (Faculty Mentor- Dr. Denis Trubitsyn)
Summer Shopping List: Do Brands of Sunscreen Matter?
- Kadyn Bunting (Faculty Mentor- Dr. Douglas Dalton)
Religious Symbolism
- Thomas Wiles (Faculty Mentor- Dr. Douglas Dalton)
Small Museums: The Challenges Faced by Small and Independent Museums in the US
- Luke Arcement, Thomas Wiles, Savannah Hall, Saverio Lombardo (Faculty Mentor- Dr. Brian Bates)
Artifact Distribution at the Sanders Site
- Hannah Underwood (Faculty Mentor- Dr. Rhonda Brock-Servais)
Symbolism meanings
- Katherine Sale, Camden Calloway (Faculty Mentor- Dr. Lauren May)
How do online learning programs, specifically ABC mouse, Writing A-Z, IXL learning, and Boom Writer, help K-2nd graders learn how to write?
- Katie Conroy (Faculty Mentor- Dr. Lauren May)
How Elementary Writing is Shaped by History (1950-Present)
- Morgan Boschen (Faculty Mentor- Dr. Lauren May)
The Writing Process for Elementary Students with Autism
- Kaylee Lowe (Faculty Mentor- Dr. Lauren May)
From Pages to Pencils: How does a student's reading level or skill affect their ability to be a good elementary writer?
- Diana Harwood (Faculty Mentor- Dr. Heather Lettner-Rust)
Jelly Roll's Revival: A Study on Celebrity Apologies
- Caroline Avery (Faculty Mentor- Dr. Ravi Sankar)
Analyzing the role of sediment transport on soil erosion and fluvial processes under the influence of anthropogenic change along a stretch of the Appomattox River located in Farmville, Virginia
- Ken Cyrus (Faculty Mentor- Dr. Chris Jones)
A Practical Application of a Behavior Change Project: From Off-Task to On-Task
- Lauren Vick (Faculty Mentor- Dr. Dan Michael)
Exploration of Name, Image and Likeness, Sportsmanship, Gamesmanship, Cheating, and Performance Enhancing Drugs

Maggie Hiatt (Faculty Mentor- Dr. Meg Thompson)
Aspirin. The Science Behind How Aspirin Affects Individuals

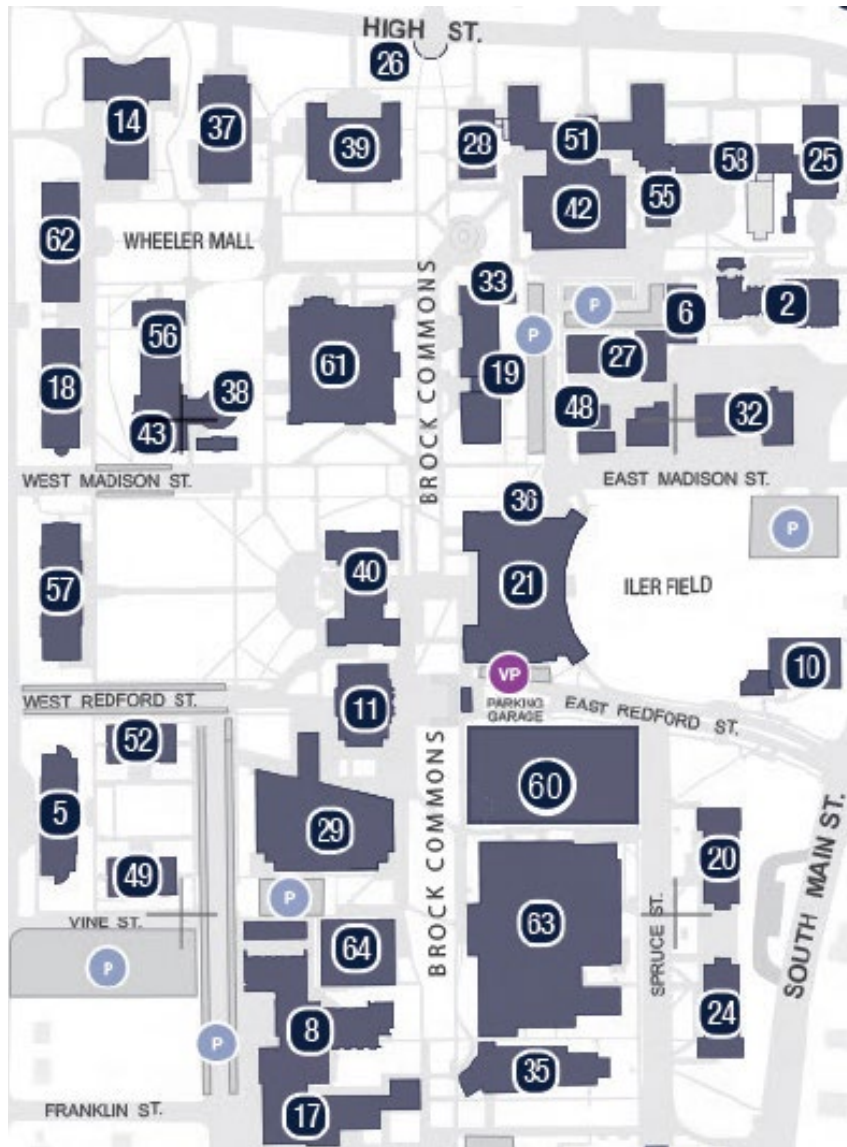
Donald Dillon (Faculty Mentor- Dr. Meg Thompson)
The history and science of Trazadone

Maria Papas (Faculty Mentor- Dr. Meg Thompson)
Beyond the Bottle: A Deep Dive into Amoxicillin

Grace McCain (Faculty Mentor- Dr. Eric Laws)
Who raised you? : The Academic Lineage of Longwood's Psychology Department

Aaliyah Liles (Faculty Mentor- Dr. Elizabeth Knott)
What makes a leader: How background and discipline affect leadership styles

Campus Map



Parking: Park in the Brock Commons Garage (Underneath Building 21)

Registration and presentations: Rotunda (Building 51), Blackwell Ballroom and Maugans (building 42), and Bedford (building 8)

Performances: CSTAC (building 17)

