

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.

INQUIRY

WEDNESDAY - 19 APRIL 2023 - 8 A.M. - 5:30 P.M.

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Acknowledgements

Student Showcase Organizing Committee

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Sarah Porter
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Yulia Uryadova
Lauretta Werner
Jessi Znosko

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
College of Graduate and Professional Studies
University Center and Student Activities

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. Erin Waggoner, Assistant Professor of Communication Studies Co-Director, Women, Gender, and Sexuality Studies Minor

Oral Presentations- Morning Sessions

Rotunda – Virginia Room

9:45-11:15 A.M.- Biology 488: Senior Capstone in Biology

Rotunda – Room 116

9:45-11:45 A.M.- Cormier Honors College for Citizen Scholars and English 461: Senior Seminar

Rotunda – Room 115

9:45-11:15 A.M.- Independent Research

Performances

Communication Studies and Theatre Arts Center- Room 101

10:00-11:00 A.M.- Theater 448: Integrated Arts Theater 11:15-11:30 A.M.- Theater 215: Voice and Speech

Junior Show

Bedford Gallery 11:00 A.M. – 1:00 P.M. Awards 11:30 A.M.

Studio Art and Graphic and Animation Design Programs

Poster Presentations- Morning Sessions

Blackwell Ballroom, 9:45 – 10:45 **A.M.**

Education, Environmental Science, Health and Physical Education, Integrated Science, Nursing, Physics, Psychology

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

Biology, Cormier Honors College for Citizen Scholars, Nursing

Award Ceremony for *Incite* and Longwood Excellence in Research and Inquiry Awards

Rotunda – Virginia Room

12:15-1:00 P.M.- Welcoming Remarks- Dr. Roger Byrne, Dean of Cook-Cole College of Arts and Sciences

Presentation of Incite Awards- Dr. Larissa Tracy, Professor of English, Editor of Incite

Oral Presentations- Afternoon Sessions

Rotunda – Virginia Room

1:15-4:00 P.M.- Biology 251: Introduction to Ecology and Evolution

Rotunda – Room 116

1:15-3:30 P.M.- PRISM Research 3:45-4:30 P.M.- Longwood Senior Thesis Program

Rotunda – Room 115

1:15-3:15 P.M.- Spanish 341: Spain: Civilization, Literature, and Artistic Expressions from Prehistory to 1700

3:30-4:30 P.M.- Spanish 351: Early Latin American Civilization and Culture: Prehistory to 1800

Rotunda – Room 108

1:15-2:45 P.M.- Biology 404: Immunology and Biology 473: Comparative Biomechanics

Bedford – Room 111

1:00-2:00 P.M.- Art 385: Critical Making

Bedford - Room 211

2:15-4:00 P.M.- Graphic and Animation Design 462: Senior Professional Seminar

Poster Presentations- Afternoon Sessions

Blackwell Ballroom, 1:15 – 2:15 P.M.

Environmental Science, Geography, Political Science, Nursing

Blackwell Ballroom, 2:30 – 3:30 P.M.

History, Nursing, Race and Ethnic Studies, Sociology

Blackwell Ballroom, 3:45 – 4:45 P.M.

Chemistry, Health and Physical Education, Independent Research and Internships, Nursing

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. Erin Waggoner, Assistant Professor of Communication Studies Co-Director, Women, Gender, and Sexuality Studies Minor



Dr. Erin B. Waggoner (Ph.D., University of Connecticut) is an Assistant Professor in Communication Studies at Longwood University, where she additionally serves as the Co-Chair for the Women, Gender, and Sexuality Studies. Her research focuses on the intersection of media, representation, and interpersonal communication. She has presented at many international and national conferences and has published in top journals in her field, including Journal of Homosexuality, Sage Research Methods, Journalism and Mass Communication Educator, and Popular Culture Studies Journal. As a social science researcher, Dr. Waggoner has explored all methodologies, including qualitative, quantitative, and critical publications and presentations, and she loves mentoring student researchers. As a media creator, Dr. Waggoner loves to explore identity and people's narratives. Her most recent work, Hometown Drag, documents a small Appalachian town's growth and acceptance of the queer community, and her current project is gathering the stories of Longwood's queer history.

Award Ceremony for *Incite* and Longwood Excellence in Research and Inquiry Awards

12:15 P.M. – 1:00 P.M. Rotunda- Virginia Room

Please join us as we acknowledge and celebrate our students who have gone above and beyond in their pursuit of research and creative inquiry! The awards ceremony will include the winners of the *Incite* Journal of Undergraduate Scholarship awards, and students who are being recognized with the Longwood Excellence in Research and Inquiry Award.

Students who have been recognized with an award are noted by the colored ribbons on their name badges.

The different colors of the Award Recipient ribbons indicate the following achievements:

Dark Blue- Presented research at a scholarly conference or had a performance or exhibition of creative work outside of Longwood University

Light Blue- Received external funding to support an independent research and inquiry project

Red- Published an article in a peer-reviewed scholarly journal

Green- Completed a Senior Thesis Project at Longwood University

Yellow- Published in Incite, the undergraduate research journal at Longwood University

Inclusive Excellence Symposium on Diversity, Equity, Inclusion, and Belonging

9:00 a.m. - 3:30 p.m.

Welcoming Remarks and Keynote Address

Rotunda- The Virginia Room 9:00-9:30 A.M.

Welcoming Remarks- Dr. Larissa Smith, Provost and Vice President for Academic Affairs

Keynote Address- Dr. Erin Waggoner, Assistant Professor of Communication Studies Co-Director, Women, Gender, and Sexuality Studies Minor

BIOL 488- Senior Capstone in Biology, Oral Presentations

Rotunda – Virginia Room 9:45 – 11:15 a.m.

Faculty mentor, Dr. Adam Franssen

9:45-10:00

Heidi Parker-Combes, Cassandra Poole, Coleman Taylor
Restructuring the accommodation process at Longwood University

10:00-10:15

Jacqueline Amaya Hernandez, Samari Gibson, Taylor Murphy

Advocation for proper diagnosis of adolescents with ADHD in the Prince Edward County

10:15-10:30

Isabelle Villarreal, Alexis Henry, Virginia Tam

Educating Elementary School Administration and Staff on Neurodiversity to Ensure Success of Neurodiverse Students

10:30-10:45

Delaney McMahon, Hailee Banks, Virginia Marshall, Xavier Holman Benefits of a Neurodiverse Workplace

10:45-11:00

Tajayda Arrington, Davice Jones, and Rebecca Mills

Our Neurodiversity Desert: Solving the Absence of a Community Based Resource for Neurodivergent Children

11:00-11:15

Lloyd Dominguez, Amari Riddick, Jamie Slaughter, and Kylee Wright

The limitations vs the advantages of athletes who have Tourette Syndrome

Inclusive Excellence Research Projects

Rotunda- Room 115 9:45 a.m. - 10:00 a.m.

Osiris Ruff, (Faculty sponsor, Dr. Sean Barry)

Camp Almodóvar

Cormier Honors College Research Projects

Rotunda- Room 116 10:35 a.m. - 10:50 a.m.

Kalliope Ratliff, (Faculty sponsors, Dr. Hannah Dudley Shotwell and Dr. Shayla Walker) Racial and Ethnic Justice in the Media

Performances

Communication Studies and Theatre Arts Center- Room 101 11:15 a.m. - 11:30 a.m.

Raine Bence, Junior Franks, Anna Hall, Maggie Kittrell, Cierra Yuille (Faculty sponsor, Dr. Joyce Sweet)

Maya Angelou--Truly a Phenomenal Woman

Spain: Civilization, Literature, and Artistic Expressions from Prehistory to 1700 Rotunda- Room 115 2:00 p.m. - 3:15 p.m.

2:00-2:15

Paul Espinoza.

¿Cómo construimos a un héroe? Desde el campo de batalla hasta un campo de fútbol

2:15-2:30

Stormie Foley

Representations of Women in the Literature of Medieval Spain

2:30-2:45

Osiris Ruff

The Usefulness of Camp: Responding to a Spanish Society in Transition

2:45-3:15

Christina White

Bartolomé de Las Casas: ¿El Defensor de Los Indígenas y el Matador de Los Africanos?

Poster Session II- Cormier Honors College for Citizen Scholars

11:00 - 12:00 p.m.

Faculty Mentor, Dr. Jennifer Miskec

Abby Marple, Kenney Lundeen, (Faculty sponsor, Dr. Jennifer Miskec)

How Are Characters with Disabilities Portrayed in Children's Literature?

Poster Session IV- Introduction to Race and Ethnic Studies

2:30 - 3:30 p.m.

Faculty mentors, Dr. Hannah Dudley-Shotwell and Dr. Shayla Walker Posters 27-33

Mary Martino

Impact of the Black-White Binary in Modern Media

Sydney Thompson, Eliot Dix

Representation of Race and Ethnicity in Prime Time Television: A Media Analysis of Fox and NBC

Ijanee Wynn

The effects of the Strong Black women schema and how it alters the lives of Black women compared to White women

Dionna Charity

Diversity in STEM

Poster Session IV- Seminar in United States History- Reconstruction

2:30 - 3:30 p.m.

Faculty mentor, Dr. David Coles Posters 34-43

Harrison Ludwig

Motivations of Radical Republicans in Congress during Reconstruction

Jordyn Bryant

Reconstruction Era's impact on the political involvement of African Americans

Lucy Klisz

Lincoln's Plans for Reconstruction and How They were Altered By His Assassination

Larry Grant Jr.

The Impeachment of Andrew Johnson

Caitlyn Morley

The Ku Klux Klan: Reconstruction vs. The Jazz Age

Gretchen Yoder

The Effects of Reconstruction and Disenfranchisement on African Americans at the Polls

Madison Harris

The Position of African-American Women Due to the Fifteenth Amendment

Megan Harrigan

Race Relations in South Carolina, 1867-1877

Jay Holmes

The Freedmen's Bureau

Taylar Bauschatz

The Compromise of 1877

Theater 448 – Integrated Arts Theater, Live Performances CSTAC 101

Faculty mentor, Dr. Ronda Scarrow

10:00-10:30

Molly Ashcraft, Ashlyn Baker, Ryane Barlow, Liesl Bergel, Chloe Curry, Emily Dankenbring, Justin Elliott, Carly Hicks, Maddie Nickerson, Megan Odenwelder, Rebecca Regan, Sarah Roquemore, Samantha Scraba, Genesis Simmons, Brooke Snider, Ashley Vago

There is Always Room to Integrate the Arts

10:30-11:00

Ryan Barnebee, Case Bohannon, Adrianne Donohue, Caroline Fritz, Madison Glattfelder-Quizon, Greta Hahn, Haeley Hall, Grace Hong, Rachel Kraft, Makayla Lewis, Allison McSweeney, Karina Naccarato, Alexis Price, McKenzie Ross, Gwyneth Swan, Kenzie Verlander

Getting Visual in the Classroom While Moving and Grooving

Theater 215 – Voice and Speech, Live Performances CSTAC 101

Faculty mentor, Dr. Joyce Sweet

11:15-11:30

Raine Bence, Junior Franks, Anna Hall, Maggie Kittrell, Cierra Yuille Maya Angelou--Truly a Phenomenal Woman

Junior Art Show

11:00 a.m. – 1:00 p.m. 11:30a.m.- Awards Ceremony Bedford Gallery

Please join the department of Theatre, Art, Graphic and Animation Design for the opening reception of the Junior Show. Held in Longwood's Bedford Gallery, this yearly exhibition highlights the work of our junior class students in the Studio Art, and Graphic and Animation Design programs. Come by the Bedford Atrium from 11:00a.m.-1:00 pm to help us celebrate our students' achievements in Art and Design!

BIOL 488 – Senior Capstone in Biology, Oral Presentations

Rotunda – Virginia Room 9:45 – 11:15 a.m.

Faculty mentor, Dr. Adam Franssen

9:45-10:00

Heidi Parker-Combes, Cassandra Poole, Coleman Taylor

Restructuring the accommodation process at Longwood University

10:00-10:15

Jacqueline Amaya Hernandez, Samari Gibson, Taylor Murphy

Advocation for proper diagnosis of adolescents with ADHD in the Prince Edward County

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Isabelle Villarreal, Alexis Henry, Virginia Tam

Educating Elementary School Administration and Staff on Neurodiversity to Ensure Success of Neurodiverse Students

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Delaney McMahon, Hailee Banks, Virginia Marshall, Xavier Holman Benefits of a Neurodiverse Workplace

10:45-11:00

Tajayda Arrington, Davice Jones, and Rebecca Mills

Our Neurodiversity Desert: Solving the Absence of a Community Based Resource for Neurodivergent Children

11:00-11:15

Lloyd Dominguez, Amari Riddick, Jamie Slaughter, and Kylee Wright

The limitations vs the advantages of athletes who have Tourette Syndrome

Cormier Honors College, Oral Presentations

Rotunda 116 9:45 – 11:00 a.m.

9:45-10:00

Serenity Allen, (Faculty sponsor, Dr. Alecia Blackwood)

The Light Behind Aggressive Parenting

10:00-10:20

Rachel Cannon, (Faculty sponsor, Dr. Shawn Smith)

Adaptation and Inspiration: Shakespearean Tropes in Modern Media

10:20-10:35

Kylie Casey and Kylie Rinker, (Faculty sponsor, Dr. Scott Grether)

Media's portrayal of Roe v Wade protests throughout the decades.

10:35-10:50

Kalliope Ratliff, (Faculty sponsors, Dr. Hannah Dudley Shotwell and Dr. Shayla Walker) Racial and Ethnic Justice in the Media

English 461- Senior Seminar, Oral Presentations

Rotunda 116 11:00 – 11:40 a.m.

11:00-11:20

Kassie Lee, (Faculty sponsor, Dr. Sean Barry)

The Recollection of Countercultural in Jenkins Reid's Daisy Jones & the Six

11:20-11:40

Ashley Wilson, (Faculty sponsor, Dr. Sean Barry)

What's at the end of Minecraft? The ambiguous genres and genders of Julian Gough's "End Poem"

Independent Research, Oral Presentations

Rotunda 115 9:45 – 11:15 a.m.

9:45-10:00

Osiris Ruff, (Faculty sponsor, Dr. Sean Barry)

Camp Almodóvar

10:00-10:15

Kristen Wilkins, (Faculty sponsor, Dr. Amorette Barber)

Chimeric PD1 Expressing T cells as a therapy for Pediatric Osteosarcoma and Rhabdomyosarcoma

10:15-10:30

Kendall Magee, Emily King, and Michelle Amaya-Alfaro, (Faculty sponsor, Dr. Chris Bjornsen) Social Media Use and Attention Dysregulation

10:30-10:45

Gabriel Proudfoot, (Faculty sponsor, Dr. Chris Bjornsen) *Social media use and self-concept dysregulation.*

10:45-11:00

Rachael Sapp, Maria Riascos, (Faculty sponsor, Dr. Chris Bjornsen) Social Media Use, Personality, and Relationship Satisfaction

11:00-11:15

Kendyl Titus, (Faculty sponsor, Dr. Shayla Walker)

Mental Health and Social Work Education: Identifying the Gaps

ART 385 – Critical Making, Oral Presentations

Bedford 111 1:00 – 2:00 p.m.

Faculty mentor, Dr. Angela Bubash

Maggie Cornelius, Kaitlin Hardt, Destiny Hunt, Audrey MacMeekin, Carleigh Reiffer, Hannah Smith, Connor Thompson

Critical Making Pecha Kucha

GAND 462 – Senior Professional Seminar, Oral Presentations

Bedford 211 2:15 – 4:00 p.m.

Faculty mentor, Dr. Keith Cummings

2:15-2:30

Regan J. House

Posted Mortem Jewelry

2:30-2:45

J. Michael D. Woodard Jr.

Boundless Designs

2:45-3:00

Heath Wood

Why not play a little?

3:00-3:15

Sara Grayson

The Hospitable Chickens

3:15-3:30

Taniya Wyche

Tanuki Rush

3:30-3:45

Jacar McNeil

Stage Door/Feel Like a Fraud?

3:45-4:00

Madison Clark

Sensitive-Senior Thesis Animation

BIOL 251 – Introduction to Ecology and Evolution, Oral Presentations

Rotunda – Virginia Room 1:15 – 4:00 p.m.

Faculty mentor, Dr. Mark Fink

1:15-1:30

Amanda Cedeno, Saad Khan, and Mackenzie Jerabek

Don't Fall In: Analyzing Animal Biodiverstiy Through Pitfall Traps at Lancer Park

1:30-1:45

Ethan Dobbins, Taylor Pulley, Jais McClurkin

What's in that water? The exploration of the abundance and diversity of aquatic macroinvertebrates in various water sources at Lancer Park

1:45-2:00

Javier Roldan, Kavan Hicks, Bradley Pugh

When a Tree Falls in The Forest: Invertebrate Diversity in Decaying Trees

2:00-2:15

Sarah Schuckert, Erica China, Angelina Scotece

And there were Mayflies! Oh my god, there were Mayflies: The Correlation of Water Quality and Aquatic Macroinvertebrate Biodiversity

2:15-2:30

Sydnie Jones, Madison Carter, Kexin Li

More than meets the Eye: Terrestrial Macroinvertebrate Richness in Leaf Litter at Varying Distances from a Water Source

2:30-2:45

Ashley Seiders, Gabrielle Quaresma, Kenya Carrillo Hernandez

Caught on Camera: Avian Diversity and Foraging Patterns in Rural and Urban Areas

Faculty mentor, Dr. Ben Campbell

3:00-3:15

Dylan Duke, Casey Mann, Matthew Wright

Animal activity based on distance from water source

3:15-3:30

Alicyn Lee, Andrew Schaefer, Lauren Vasquez

Microorganisms found in Farmville waterways

3:30-3:45

Julia Boisvert, Kenzie Kushner, Mattie Smith

Insect biodiversity in natural vs. man-made environments

3:45-4:00

Drew Adams, Harvey Aileo, Savannah Moody

The impact of soil compaction on plant germination

Perspectives on Research in Science and Mathematics (PRISM)

Rotunda 116 1:15 – 3:30 p.m.

1:15-1:30

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

Mental Health in College Student Athletes

1:30-1:45

Julia Novaes, (Faculty sponsor, Dr. Steven Hohner)

An extremal property of symmetric decreasing rearrangements

1:45-2:00

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

Polyhyperbolic Splines

2:00-2:15

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

Extracting occupancy information from sensor data using machine learning

2:30-2:45

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

Synthesis of cationic Pt drug derivatives and characterization of their cellular targets

2:45-3:00

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

Quantifying Legionella in Rainwater Harvesting Systems

3:00-3:15

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

Comparing the sensory ecology of larval fish from lakes of different watercolor

3:15-3:30

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

Nocturnal Flight Call Identification

Biology, Oral Presentations

Rotunda 108 1:15 – 2:45 p.m.

BIOL 404 - Immunology

Faculty mentor, Dr. Amorette Barber

1:15-1:30

Bianca Minter, Virginia Tam, Victoria Walden

Diagnosis of Immunodeficiency with Hyper-IgM Syndrome Type 1

1:30-1:45

Kylee Wright, Jammie Mcmurtry

Diagnosis of Bare Lymophocyte Syndrome Type II

1:45-2:00

Cassandra Poole, Zoe Averett

The case of the missing immune receptor - diagnosing an IFN- λ receptor deficiency

2:00-2:15

Tajayda Arrington, Rodney Clark, Skylar Irvin, Melanie Rowland Diagnosis of Chronic Granulomatous Disease (CGD) In Teen Boy

BIOL 473 – Comparative Biomechanics

Faculty mentor, Dr. Brandon Jackson

2:15-2:30

Lilian Jubb and Jacqueline Amaya Hernandez

The effects of autotomy on locomotion stability in brown marmorated stink bugs (Halyomorpha halys)

2:30-2:45

Kira Edens, Alayna Palamar, Coleman Taylor

The biomechanics and locomotion behind hind leg jumping power in different species of cricket

Spanish, Oral Presentations

Rotunda 115 1:15 – 4:30 p.m.

SPAN 341 – Spanish Civilization, Literature, and Art

Faculty mentor, Dr. Javier Fernández Urenda

1:15-1:30

Emilio Salgado Garcia

España: Gastrocultura La importancia Musulmana

1:30-1:45

Melanie Jensen

Social Structures of the Middle Ages and renaissance according to Spanish literature

1:45-2:00

Mia Arrieta

Witchcraft and the Transition to Modern Science from the Enlightenment Period in Spain

2:00-2:15

Paul Espinoza.

¿Cómo construimos a un héroe? Desde el campo de batalla hasta un campo de fútbol

2:15-2:30

Stormie Foley

Representations of Women in the Literature of Medieval Spain

2:30-2:45

Osiris Ruff

The Usefulness of Camp: Responding to a Spanish Society in Transition

2:45-3:15

Christina White

Bartolomé de Las Casas: ¿El Defensor de Los Indígenas y el Matador de Los Africanos?

SPAN 351 – Early Latin America Pre-1800

Faculty mentor, Dr. Renee Gutiérrez

3:30-3:50

Sarah Donahue and Leslie Flores

Las dos caras de la moneda: El oro en la economía transatlántica de las Españas

3:50-4:10

Rachel Cannon, Zoë Maxwell

Las mujeres varoniles: Monjas, autores, y su proto-feminismo

4:10-4:30

Miguel Diaz-Montealegre, Luna Prieri

De Huitzilopochtli a Jesucristo: La evangelización mexicana (el siglo XVI hasta hoy)

Longwood Senior Thesis, Oral Presentations

Rotunda 116 3:45 – 4:30 p.m.

3:45-4:00

Catharine Forst, (Faculty sponsor, Dr. Laura Jimenez)

Burnout and Overtraining Are Not Present in Longwood's Women's Soccer Athletes

4:00-4:15

Leah Richardson, (Faculty sponsor, Dr. Charles Repp)

The Differences in Psychological and Philosophical Therapy on Moral Injury

4:15-4:30

Cassandra Poole, (Faculty sponsor, Dr. Amorette Barber)

The Effect of Bisphenol A (BPA) Substitutes on CD4+ T Cell Immunity

Poster Session I 9:45 – 10:45 a.m.

Blackwell Ballroom

EDUC 245 – Human Growth and Development

Faculty mentor, Dr. Aftab Khan Posters 1-11

Kristen Willoughby

Does divorce affect family relationships

Paxton McDonald

The Effects of Over Testing Students

Casey Mann, Cliff Whitlock

Maternal drug abuse and effects on cognitive and socioemotional development in children

Tiffany Work

The effect growing up surrounded by parental substance misuse has on a child's development

Austin Burnett, Maegan Pickral

The Effects or Parental Depression on the Social and Emotional Development of Children

Lucas Taves

Effects of Divorce on Child Development

Kevin Patel and John Bultje

Impact of social and physical development.

Liv Reid

Cognitive and Social Development in Correlation with Eating Habits

Katie Browne

Development of self and social understanding

ENSC 201 – Integrated Environmental Investigations

Faculty mentor, Dr. Ken Fortino Posters 12-15

Caroline Avery, Amanda Beville, and Gabriella Giannelli

The Concentration of Microplastics affects the Birth Rate, Death Rate, and Population Growth of Daphnia magna.

Joel King, Dylan Duke, Pierson Barnabei, Savannah Moody,

The impacts of la nina on the fishing industry

Royce Coleman, Lucy Ellis, Helena Loucas, Grace Smith

The impact of urban landscape features on wind patterns and CO₂ concentrations

Ella Puckett, Jack Van Straten, and Caleb Swecker

Determination of different carbon stocks in a temperate forest

ISCI 121 - Entering Research II

Faculty mentor, Dr. Melissa Rhoten
Posters 16-19

Madison Carter, Ja'Mea Henderson, Jessica Patish, Zoe Sawyer *Is that water polluted?*

Erica China, Bethany Comer, Angelina Scotece, Kaynia Winn *How do nitrates and phosphates affect algal growth?*

Taylor Balovich, Kara Branch, Brianna Edgar, Timothy Slater Suminoe oysters and the Chesapeake Bay: A Case Study

NURS 360 – Introduction to Research and Evidence Based Practice

Faculty mentor, Jennifer Hutchinson, PhD, RN Posters 20-25

Tricia Cimbal, Laney Pitcock

Respirator pnemonia and COVID

Casey Wilkinson, Aislinn Garcia

COPD - High flow vs. Low Flow Oxygen Therapy

Alexys Rowe, Seth Ratliff

In patients with major depressive disorder/ depression, how does combination therapy compare to pharmacologic exclusive plans for reducing depressive symptoms?

Erin Salzman, Kasey Clemons

In a hospital setting, how do registered nurses working an 8 hour shift versus a 12 hour shift affect nurse burnout and work associated errors?

Ayanna Ford, Katelyn Grundy

Among nurses after the COVID-19 pandemic, how would having adequate nurse staffing decrease the burnout rate of nurses when compared to nurses who are using more traditional interventions to reduce the nursing burnout rate?

PHYS 223 - University Physics Lab II

Faculty mentor, Dr. Kenneth Pestka Posters 26-41

Avery Smith

Statistical Thermodynamics in Rolling Dice

Ashley Cook

Dice Related to Thermodynamics and Entropy

Alec Corwin

Hubble Law

Tydru Light

Drag Forces

Rebecca Taylor

Calculating Drag Force

Ava Davis

Optics

Ryan Urban

RC Time Constant

Bryson Talbert

Statistical Mechanics, Thermodynamics, and Dice

Amelia Carlile

Optics

Michael Everman

Optics and the Law of Refraction

Kevin Warunek

Hubble's Law

Riley McDonalf

The Hubble Relationship

Andrew Short

RC Circuits

Matthew Cecka

RC Time Constants

Maxwell E. Rucker

Drag Forces

PSYC 461 – Psychology Senior Seminar

Faculty mentor, Dr. Stephanie Buchert Posters 42-50

Tanea A. Doswell, Jadyn R. Eaton, Amaya N. Wright

The Measurement of Performance in the Presence of Team Empowerment through Communication and the Availability of Resources

- Alyssa L. Gibson, Danielle M. Whittington, Korynna A. Anderson

 The Effect of Medium and Misinformation in False Memory Implantation
- Eli C. Caldwell, Caitlyn D. Freemen, Leah E. Richardson

 The Purpose of a Cog in a Machine: A Study on Eudaimonic Well-Being
- Lindsey D. Hay, Anaya N. Jennings, Precious I. Pulliam

 The Influence of Attachment Styles and Mindfulness Intervention on Subjective Well-Being
- Annie E. Harris, Isabella M. Jontz, Natalie E. Russell

 How Team Empowerment Influences Self-Efficacy in a Group Work Setting
- Erica P. Feuerhelm, Megan R. King, Alayna S. Palamar

 The Effects of Lighting and Music on Anxiety in the Classroom
- Gabriella B. Baker, Kelijah S. Fields, Leah D. Safi Social media influence on self esteem
- Marissa A. Freeman, Natasha T. Martin, Elizabeth A. Wilder

 The Effect of Vocabulary and Gender on Memory Recall and Recognition
- Janelle M. Broaddus, Carrie A. Flickinger, Hannah E. Seymour

 Does Amount of Time Spent on TikTok Have an Influence on Self-Esteem?

HPEP 402 Research Methods in Health & Physical Education

Faculty mentor, Dr. Amanda Blaisdell Poster 51

Leigha Hill

Epilepsy and Quality of Life in Women

Poster Session II 11:00 a.m. - 12:00 p.m.

Blackwell Ballroom

BIOL 250 – Introduction to Genetics and Cell Biology

Faculty mentor, Dr. Katie Pennington Posters 1-20

Ja'mea Henderson, Kara Branch
SNPs PCR and Gel Electrophoresis for Curly hair Phenotype

Zoey Graybeal, Matt Harvey, Abby Squires SNP PCR Blue/Brown Eyes

Kassidy Owens, Sarah Schuckert
Phenotype Presentation of Blue/Brown eyes SNPBH

Kaylee Coker, Bethany Comer *Bitter or Soapy?*

Lauren Vasquez, Matthias Borneff
Finding the difference within our SNPBH Phenotype

Jessica Patish, Kaynia Winn Evaluation of Genetic SNPS

Kirsten Eberly, Breann Norwood Cilantro Aversion

Amanda Cedeno, Saad Khan

Investigating the Relationship Between the Phenotype and Genotype of Single Nucleotide Polymorphism C: Aversion to Cilantro

Ashleigh Mann, Zoe Sawyer

Analysis of DNA from cheek samples to determine genotype with the locus blue/brown eyes (SNPBH)

Rachel Danzitz, Jais McClurkin

Cilantro Aversion & SNP rs2741762

Madison Campeau, Grace Cohen

Determining Genotype of SNPBH through Polymerase Chain Reactions

Breann Norwood, Kirsten Eberly Cilantro aversion Victoria Matheson, Fayth Julius

Curly hair genotype on personal DNA

Riley Boggs, Emily Woytanis

Truth Behind Brown and Blue Eyes

Julia Boisvert, Lauren Sechriest

PCR and SNP on Blue/Brown eyes

Jaedyn Colon, Borhan Errafay Blue/Brown Eyes SNP rs12913832

Samantha Collins, Amanda Doty, Jasmine Gullixon

Examining the Genotype of the rs713598 and rs12913832 Genes

Kiersten Witte and Lynn Clemons-Jenkins

Some Like It Bitter: Analyzing the TAS2R38 Gene

Honors BIOL 250 – Introduction to Genetics and Cell Biology

Faculty mentor, Dr. Consuelo Alvarez Posters 21-25

Madison Smith, Trinity Luxeder, Nick Duellman SNP Genotyping

Ashley Seiders, Olivia Rouse, Maggie Chapin Relationship Between Eye Color and Photic Sneeze Reflex

Maria Papas, Kendra DeFilippo, Taylor Balovich What's hiding in your genes?

Anaaya Monroe, Samantha Ruano, Julianne Smith The Race For SNPs

Cormier Honors College Posters

Posters 26-36

Caitlin Wiley, (Faculty sponsor, Dr. Robert Marmorstein) SSH Hijacking

Louis Iampaglia, (Faculty sponsor, Dr. Robert Marmorstein) Steganography: The Art of Hiding Data

- Dionna Charity, (Faculty sponsor, Dr. Robert Marmorstein)

 Implementing a Command-and-Control Attack
- Jackson Ornoff, (Faculty sponsor, Dr. Robert Marmorstein)

 Dino War
- Emily Cate Smith, (Faculty sponsor, Dr. Dawn Schwartz)

 How to Prevent Tax Evasion?
- Alayna Palamar, (Faculty sponsor, Dr. Brandon Jackson)

 The Biomechanics of Athletic Movement and Performance
- Mackenzie Griffith, Anna Barrett, Kiersten Witte, (Faculty sponsor, Dr. Tim Coffey)

 Big Heads and Balance: Postural Control in College Mascots
- Abby Marple, Kenney Lundeen, (Faculty sponsor, Dr. Jennifer Miskec)

 How Are Characters with Disabilities Portrayed in Children's Literature?
- Kendall Wieckert, (Faculty sponsor, Dr. Jennifer Miskec) *Understanding Adaptations via Roald Dahl's Matilda*
- Grace Bailey, (Faculty sponsor, Dr. Alison King)

 Speech Perception in Deaf Children

NURS 230 – Foundations of Nursing Practice Posters 37-57

Faculty mentor, Dr. Pamela Crowder

- Amya Williams, Abigail Gill, Jayden Haley

 How does social media impact our health
- Chelsea Stith, Mary Tursic, Stephanie Simmons, Gabrielle Sehlhorst Patient Safety
- Jillian Ratliff, Liesel Saur, Avery Goodlin

 Nursing and physician shortages that lead to never events.
- Grace Dorgan, Olivia Wydner, Emma Weber How Distractions Effect the Work Ethic of Nurses
- Austin Glockner, Jacki Ramey, Sonya Owen

 The Effects of different materials on skin breakdown

- Emma Culver, Constanza Mangieri, Dana Phillips Prevalence of UTIs in Geriatric Patients
- Ryleigh Mahanes, Taylor Fifer, Kaelyn Moore

 Insufficient Staffing in the Healthcare field
- Teri Miller, Makenzie Hayes, Alexis Funk

 How do we prevent the most common medication errors?
- Anisha Marable, John Schroeder, Emily Robinson

 Best Practice Among Long Term Care Facilities In Regards To Resident Mental Wellbeing
- Cayden Normandeau, Grace Lewis, and Taylor Sheaffer Alternative use of Briefs

Faculty mentor, Dr. Elizabeth Parker

- Benjie Abuan, Jordan Cooke, Rylee Franklin Medication Cart Administration Errors
- Anna Brautigam, Tinsley Abbott, and Abigail Giles

 How is pain assessed and decreased in patients diagnosed with dementia?
- Gabrielle Drewry, Taylor Moore, Riley Dillon Evidence Based Practice in Nursing
- Katelyn Hinegardner, Emily Nelson, Emily Sutphin Readmission to Hospitals
- Gabriella Zolkowski, Sarah Pomfrey, Madeline Mollner Evidence Based Practice of Telehealth
- Sydney Loonam, Krista Bass, Abigail Livingstone, Emily Harwood

 The Effects of Mental Health on Long Term Care Residents Physical Health and Wellbeing.
- Alexis Beasley, Jodi Pool, Madison Clegg

 Improved Nutrition for Dementia Patients with Music
- Emma Gibbs, Gracie Trainum, Gabrielle Echard

 Hospital Acquired Ventilator Associated Pneumonia
- Jacob Mays, Kylie Quick, Samantha Proffitt

 Effect of Music Therapy on The Cognitive Function of Dementia Patients
- Bailey Goldman, Cassie Beck

 Compassion Fatigue in Healthcare Settings

Poster Session III 1:15 – 2:15 p.m.

Blackwell Ballroom

NURS 440 – Managing Safety and Quality Outcomes

Faculty mentor, Dr. Kim Little Posters 1-16

Alyssa Austin

Change in the Neuroscience Telemetry Unit

Tori Heller

Change Project: ICU Delirium

Caitlin Szalay

An Environment of Healing

Georgia Gagliardi

ICU Delirium a Problem: Let's Bring Change

Chloe Amos

Postpartum Hemorrhage and The Use of The Jada System

Sara E. Stevens

Patient Privacy in Correlation to Honesty

Madyson Hunley

Skin to Skin contact post C-Section

Isabel Rosche

Decreasing Environmental Stimuli for Premature Infants

Brooke Buchanan

The Impact of Nursing Staff Wearing Tracker Badges in the Hospital Setting

Grace Puleo

The Lack of Religious Resources in an Emergency Setting

Kaylee Eckert

Use of Clinical Practice Flowsheets in a Rural Emergency Department

Rebecca Long

Fall Prevention

Claire Briggs

Moving Registered Nurse Shift Reports to the Bedside

Anna Mack

Smart Pumps Reduce Medication Administration Errors & Increase positive patient outcomes

Trevor Sehlhorst

Improving Patient Outcomes Following Cardiac or Respiratory Arrest

POSC 461 – Senior Seminar

Faculty mentor, Dr. Scott Cook Posters 17-27

Sarah Cline

Social Media and Presidential Impeachments

Sydney Thompson

Location is Key: How Does the Location of Recruiting Offices Affect the Percentage of Black Americans in the Military?

Mary Levush

The Influence of Gender on Second Amendment Attitudes

Amber Bruce

Do students at Longwood University think their Votes in elections matter?

Kayla Gurley

What causes some states the requirement of a concealed carry permit while other's do not?

Shahmique Cromwell

Gender in the Military

Canaan Key

Support for freedom of speech: partisan or much deeper?

Landon Tapscott

The Effects of Voter-ID

Riley Davis

TBD

Kayla Gurley

What causes some states the requirement of a concealed carry permit while other's do not?

ENSC 402 – Environmental Decision Making

Faculty mentor, Dr. Chris Labosier Posters 28-31

Randolph Zerick, Miguel Diaz, Matthew Wright

Finding the Facts About Short and Long Term Effects of Large Scale Solar Farms

Phil Anderson, Nadia Mullins, Jerry Dunford

Structured Decision Making (SDM) Process for Controlling the Invasive Spotted Lantern Fly in Virginia

June Bollinger, Danielle Clarke-Bradley, Jacob Davis, Christian Michael

Reducing Longwood's Single-Use Plastic Consumption: A Structured Decision-Making Process

GEOG 275 – Introduction to GIS

Faculty mentor, Dr. Kathy Gee Posters 32-44

Ella Puckett

Factors Implementing Virginia's Land Use

Lucy Ellis

Relating shoreline change to seabird populations

Ashleigh Watkins

Impacts of Climate Change on Coral Reefs in Southeast Asian Seas and the Pacific Ocean

Hannah Harrington

Factors Contributing to the Creation of Ancient Roman Cities

Jack Van Straten

Analysis on the Access of Greenspace to Minority Communities in Washington DC

Caleigh Waddell

Virginia's Lost History: Analyzing Delisted Historic Sites for Future Preservation Efforts

Caroline Avery

Flood Risk Assessment of Farmville, Virginia.

Ciaran Rivera

How Wealth Correlates with Fertility Rates

Caleb Swecker

Factors that Influence the Virginia Opossum's Expanding Range

Jackson Ornoff
Saving the Spruce

Glenn, Kelly

Prehistoric Settlement Patterns in France

Kailyn Westbrook

The Relationship Between Wildfire Occurrences and Geographic Phenomena in California

GEOG 354 – Hydrology

Faculty mentor, Dr. Ravi Darwin Sankar Poster 45

Savannah Moody

An Evaluation of Flood Risk Farmville

Poster Session IV 2:30 - 3:30 p.m.

Blackwell Ballroom

NURS 440 – Managing Safety and Quality Outcomes

Faculty mentor, Dr. Kim Little Posters 1-16

Madison Pribble

Nursing Competency on Insulin Drips in Labor and Delivery

Haley Bendall

Safety in the Emergency Department

Trevor Leonard

Efficacy of Curos Caps in IV Infection Reduction

Jessica Faulk

Personal Protection Equipment

Abigayle Cunningham

Nurse Staffing

Rebecca Keough

Benefit of Implementing a Difficult Venous Access Team at Hospitals

Leah Eick

For postoperative patients, does the use of daily interdisciplinary team huddles reduce the risk of poor patient outcomes and medical errors compared to not having regular team huddles?

Caroline Trueman

Change Project

Kayla Knotts

Standardizing End-of-Shift Report in Nursing

Lauren Mohrhusen

Recruitment and Retention of Staff Nurses at Mary Immaculate Hospital

Seth Seward

Nursing Staffing Ratios: How Can We Move Forward?

Emily McGuire

Improving Emergency Department Triage Through Nurse Badge Buddies

Cassandra Sutton

The Importance of Infection Control in the Emergency Room Setting

Stephanie Bunce

The Importance of Wireless Telemetry Boxes for Patients

Macy Franchebois

The Lifesaving Effects of Copper

SOCL 461 – Sociology Senior Seminar

Faculty mentor, Dr. Jake Milne Posters 17-26

Nyliah Dalton and Kaelin Marsili

Program Analysis of Department of Juvenile Justice

Evelyn Schulman and Cierra White

Program Analysis of Standardized Testing Laws

Nick Carlo and Nathan Boyle

Policy Analysis of the Sports Medicine Licensure Clarity Act

Sophia Douglas, and Angela D'Isidoro

Policy Analysis of The Humane Cosmetics Act of 2021

Jack Lamb, Eliot Dix, Dylan Wilkinson

Policy Analysis of Healthy Hunger-Free Kids Act

Caitlyn Mottley, Laya Young

Policy Analysis of Red Flag Laws

Annaii Estes and Aiyana Henson

Program Analysis of Parent Advocacy Coalition for Education Rights

Michael Christmas, Samuel Perry

Policy Analysis of the Workforce Innovation and Opportunity Act

Christina Carter, Mallory Davis

Program Analysis of the Justice and Mental Health Collaboration Program

RAES 201- Intro to Race and Ethnic Studies

Faculty mentors, Dr. Hannah Dudley-Shotwell and Dr. Shayla Walker Posters 27-33

Mary Martino

Impact of the Black-White Binary in Modern Media

Sydney Thompson, Eliot Dix

Representation of Race and Ethnicity in Prime Time Television: A Media Analysis of Fox and NBC

Ijanee Wynn

The effects of the Strong Black women schema and how it alters the lives of Black women compared to White women

Dionna Charity

Diversity in STEM

HIST 407 - Seminar in United States History— Reconstruction

Faculty mentor, Dr. David Coles Posters 34-43

Harrison Ludwig

Motivations of Radical Republicans in Congress during Reconstruction

Jordyn Bryant

Reconstruction Era's impact on the political involvement of African Americans

Lucy Klisz

Lincoln's Plans for Reconstruction and How They were Altered By His Assassination

Larry Grant Jr.

The Impeachment of Andrew Johnson

Caitlyn Morley

The Ku Klux Klan: Reconstruction vs. The Jazz Age

Gretchen Yoder

The Effects of Reconstruction and Disenfranchisement on African Americans at the Polls

Madison Harris

The Position of African-American Women Due to the Fifteenth Amendment

Megan Harrigan

Race Relations in South Carolina, 1867-1877

Jay Holmes

The Freedmen's Bureau

Taylar Bauschatz

The Compromise of 1877

HIST 414 - History of Capitalism

Faculty mentor, Dr. Gregory Mole Posters 44-53

Nathan McClimans

Andrew Carnegie & The Steel Foundation of Twentieth Century America

Louisa Michie

European vs Ottoman Guilds

Jerome Unser

Analysis of extraction vs. settler colonies

James Pelina

History of Resale Goods: Appraising, Sales, Markets

Henry Branch

The Decline of the Swedish East India Company

Benton McFadden

History and Evolution Banking during the Medieval Era

Joseph Coward

How trade evolved alongside of America

Joseph jones

The 2008 economic crisis: studies in causes

Mitchell Carey

The South Sea Bubble

Poster Session V 3:45 - 4:45 p.m.

Blackwell Ballroom

NURS 440 – Managing Safety and Quality Outcomes

Faculty mentor, Dr. Kim Little
Posters 1-16

Katie Cole

Decrease Exposure Risk to Blood-Borne Pathogens Within The Healthcare Field

Annie Elliott

Internship to Nursing Change Project: Why implementing turn teams would improve patient health outcomes

Rebecca Arrington

Consistency in Monitoring and Treatment of Heart Failure Patients

Hailey Marin

Prioritization of Care within the "Care Space" area in the Emergency Department

Genna Dumville

In hospitalized patients, are patients that practice sleep hygiene having better health outcomes compared to patients that do not practice sleep hygiene?

Kathryn Kelly

Importance of Sedation on Intubated Infants

Anna Schmied

Improving the Triage Process in Emergency Departments

Ashley Ford

Implementing Sensory Stimulation for Clients with Dementia to Improve Patient Outcomes in the Hospital Setting

Michaela Corker

Improving patient-centered care to better serve the patient population

Ashlyn Seymour

Medication Side Effect Education Prior to Patient Discharge

Isabella Kohama-Flores

Nursing Issue: Nursing Shortage

Kayla Oberfeld

Change Project: Poor Communication Amongst Healthcare Professionals

Morgan Tharpe

Change Project: Johnston-Willis Oncology

Melissa Schlosser

The Importance of Two Patient Identifiers in Medication Administration

Decker McKean

High Nurse: Patient Ratios

HPEP 402 Research Methods in Health & Physical Education

Faculty mentor, Dr. Amanda Blaisdell Posters 17-25

Kyleigh Cox

Eat Well to Perform Well

Abigail Torbinski

The Impact of Screen Time on Adolescent Health

Reyna Cartagena

The Effects of Sociocultural and Socioeconomic Factors on The Teenage Pregnancy Rates in the Latino Community

Jacob Barker

Exploring the Correlation Between Adolescent Aerobic Exercise Levels and Brain Health Later in Life

Mitchell Rothermel

The Poor Sleep Habits of College Students: Can They be Improved?

Alyssa Petruzzello

Side Effects in Women with PCOS who are Actively Trying to Lose Weight Vs. Not Actively Trying to Lose Weight

Benjamin Barnes

The effect of coping mechanisms and therapy on first responders dealing with work related trauma.

Chemistry Posters

Posters 26-35

Caroline Verhappen (Faculty sponsor, Dr. Sarah Porter)

The Experimental Investigation of the Chemical Composition of Energy Drinks using HPLC

Taylor Clarke (Faculty sponsor, Dr. Sarah Porter)

Validation of third-party lab results of the commercially available selective androgen receptor modulator (sarm) rad-140 and investigation unique validation methods

Tinsae Alem (Faculty sponsor, Dr. Sarah Porter)

The Detection and Quantification of Opioid Traces Using Infrared Spectroscopy

John Bohannon, Hannah Knights, Caroline Verhappen (Faculty sponsor, Dr. Sarah Porter and Dr. Melissa Rhoten)

Extraction of Natural Pigments From Vegetable Samples: Two Methods

John Bohannon, Hannah Knights, and Caroline Verhappen (Faculty sponsor, Dr. Sarah Porter and Dr. Melissa Rhoten)

Analysis of Vitamin C and Antioxidant Capacity by Three Different Methods

John Bohannon, Emily Grabic, Mack Lenhart (Faculty sponsor, Dr. Sarah Porter)

Chemistry Meets Art: Analysis of African Art at the LCVA

Jammie McMurtry, Antonio Harvey (Faculty sponsor, Dr. Sarah Porter)

Analysis of Petroleum Pollution Along the Virginia Shoreline

Victoria Walden (Faculty sponsor, Dr. Andrew Yeagley)

Investigating the Biofilm Regulatory Properties of Gallate Esters

Saad Khan (Faculty sponsor, Dr. Andrew Yeagley)

Synthesis of Various Branched Gallate Ester Derivates Toward Investigating the Structure-Activity Relationships

Independent Research Project Posters

Posters 36-50

Quinn Kehoe, Amanda Cedeno, Xavier Holman, Skylar Irvin, (Faculty sponsor, Dr. Katie Pennington) Cell Cycle progression of PTOV-1 and 14-3-3

Skylar Irvin, and Amanda Cedeno, (Faculty sponsor, Dr. Katie Pennington)

Exploring the Regulation of PTOV1 Gene Expression Functions

Delaney McMahon, Hailee Banks, Joshua Bain, (Faculty sponsor, Dr. Adam Franssen)

Epigenetic consequences of poor parenting can be partially ameliorated by environmental enrichment in a rat model

Joshua Bain, Hailee Banks, Delaney McMahon, Alayna Palamar, and Kiersten Witte, (Faculty sponsor, Dr. Adam Franssen)

Epigenetic consequences of poor parenting can be partially ameliorated by environmental enrichment in a rat model

Isabelle Villarreal, (Faculty sponsor, Dr. Dale Beach)

Comparison of Quantitative PCR Methods: Probe vs. Intercalating Dye

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

Development of Legiolert Assay for Analyzing Legionella Concentrations in Large-Volume Samples

Danielle Clarke-Bradley, Grace Smith, (Faculty sponsor, Dr. Dina Leech)

Investigating Connections Between Algae, Oxygen, and "Dead Zones" in the Waters Near

Longwood's Baliles Center for Environmental Education at Hull Springs

Lucy Ellis, (Faculty sponsor, Dr. Kenneth Fortino)

Patterns in metabolic activity in a small, human-constructed pond

Helena Loucas, (Faculty sponsor, Dr. Kenneth Fortino)

Comparison of environmental factors and macroinvertebrate community structure in small, human-

Maxwell E. Rucker, (Faculty sponsor, Dr. Kenneth Pestka)

Modeling in FEMAP

constructed ponds

Emily Farmer, Grey Cheatham, Caleigh Waddell, (Faculty sponsor, Dr. Brain Bates)

The Sanders Site: A Dan River Phase Site Ceramic Assemblage Examined

Patrick Berry, Luke Arcement, Maria Gyurik, and Thomas Wiles, (Faculty sponsor, Dr. Brain Bates)

Lithic from the Sanders Site: Analysis & Interpretations

Skyler Jones, (Faculty sponsor, Dr. Rhonda Walker)

Morphology and how it used to understand words

Eric Young, (Faculty sponsor, Dr. Jeffrey Ledford)

Exploration in Signal Reconstruction: Fourier Transform

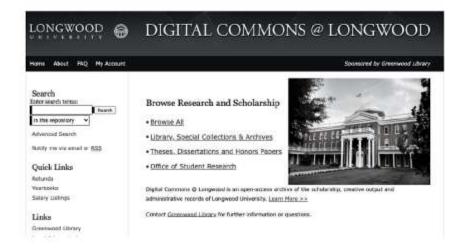




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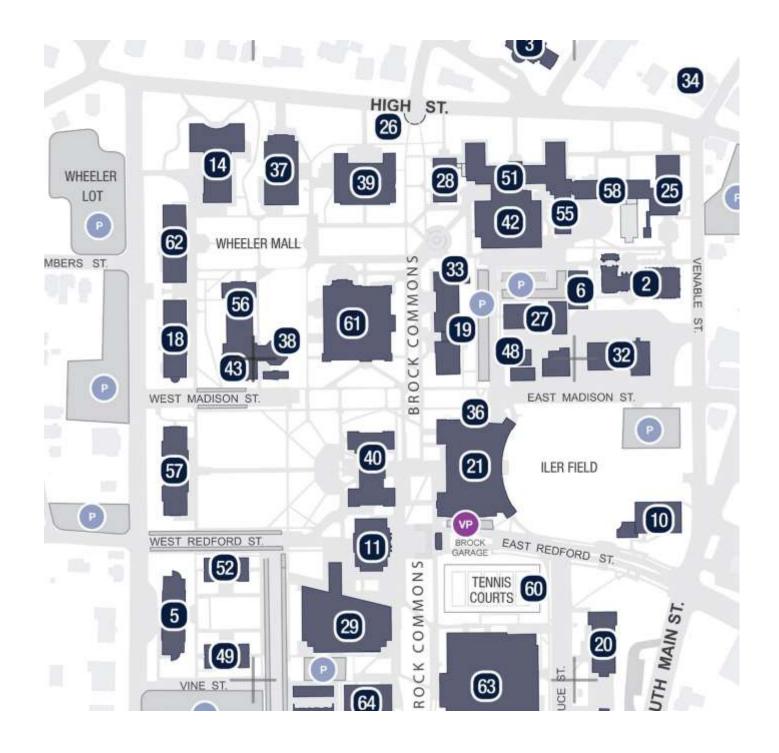
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