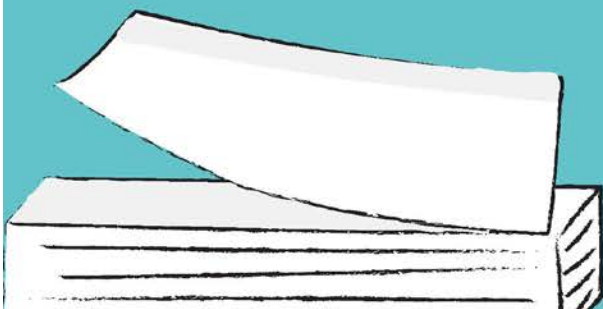


# Spring Symposium for Research & Creative Inquiry

April 24, 2018  
8:15am-6pm



See website for more information!

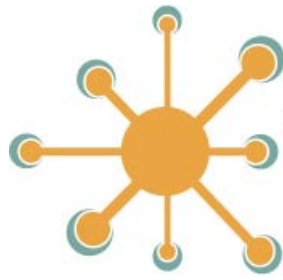


Spring Symposium  
for Research and  
Creative Inquiry

design by  
**Design  
Lab**  
spring 2018

<http://www.longwood.edu/studentresearch/spring-symposium-for-research-and-creative-inquiry/>





## Spring Symposium for Research and Creative Inquiry

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## **Acknowledgements**

### **Spring Symposium Organizing Committee:**

Amorette Barber (co-chair)  
Sarah Porter (co-chair)  
Gena Southall  
Jackie Secoy  
Mike Mergen  
Rhonda Brock-Servais  
Virginia Beard  
Troy Purdom  
Melissa Kravetz  
Kat McCleskey  
Evan Long  
Jessi Znosko

The members of the Spring Symposium Organizing Committee would like to thank the following organizations on campus for support:

Academic Affairs  
Student Affairs  
Cook-Cole College of Arts and Sciences  
College of Education and Human Services  
Cormier Honors College for Citizen Leaders  
College of Graduate and Professional Studies  
College of Business and Economics  
Longwood Foundation  
Alumni and Career Services

## Opening Remarks – Dr. Larissa Smith Fergeson

8:15 – 8:45 A.M.

Greenwood Library Atrium



Larissa Smith Fergeson is the University's Interim Provost and Vice President for Academic Affairs, overseeing faculty and staff in Longwood's four academic colleges and the Cormier Honors College.

Dr. Fergeson has been at Longwood since 2000. As a professor of history, she specializes in 20<sup>th</sup> century African-American history, history of the U.S. South, and Virginia history. She chaired the Faculty Senate from 2010-13, and served on the SACSCOC Reaffirmation Executive Committee, which culminated in Longwood's most recent reaffirmation. In 2014 she was named the university liaison to the Robert R. Moton Museum and served as vice chair of the Academic Core Curriculum Committee which revised the general education program. In 2015 she served as Associate Provost for Outreach Programs and Initiatives.

She holds a bachelor's degree in political and social thought from the University of Virginia, and an M.A. and Ph.D. in American History from Emory University.

## Opening Remarks – Dr. Sarah Tanner-Anderson

8:15 – 8:45 A.M.

Greenwood Library Atrium

Twice alumna Dr. Sarah Tanner-Anderson obtained her Bachelor of Arts ('02) in English and her Master of Arts ('07) in English, Education and Writing from Longwood University. After Longwood, Dr. Tanner-Anderson went on to obtain her Doctor of Education from The George Washington University ('14) in Educational Administration and Policy Studies, where she explored barriers, struggles and triumphs of female educational leaders. She attributes her love of learning and research to the foundations she built while at Longwood: writing undergraduate literary analysis and criticism essays, which led to conducting an action research study for her master's thesis, that then ultimately sparked an interest in pursuing doctoral study and scholarly research.



Scholarship and service go hand-in hand; Dr. Tanner-Anderson, a member of many local, state and national professional organizations has presented at professional and academic conferences and conducted instructional workshops centered around literacy, leadership and engagement. She serves as Higher Education Representative for Women Education Leaders of Virginia (WELV) and Region 8 Representative for Learning Forward Virginia. Dr. Tanner-Anderson has a wide range of experience in K-12 education, including teacher, coach, club sponsor, department chair, grade-level chair, assistant principal and principal. Fall 2017 she joined the Longwood faculty as Assistant Professor and Program Coordinator for Educational Leadership and is redeveloping the educational leadership master's program.

Dr. Tanner-Anderson resides in her hometown of Amelia, Virginia, with her husband, Peyton Anderson ('03), whom she met at Spring Weekend in 2002. After sixteen years, these college sweethearts remain testaments to lasting Lancer love. They have one son, William, who is a Longwood Legacy, although at 4, he may not know it yet. Dr. Tanner-Anderson enjoys spending time with family, canoeing, running and reading.

## Keynote Address - Dr. Robert Northington

12:30 p.m. – 1:30 p.m.

Grand Dining Room, Dorrill Dining Hall

Dr. Northington grew up in a rural farming community in Lunenburg County, Virginia. After graduating high school in 1999, he began his undergraduate studies at Longwood to become a high school biology teacher.

During his Freshman year at Longwood, Dr. Northington became involved in a small local research project in the Appomattox River with two Longwood faculty, which inspired him to continue to explore undergraduate research opportunities beyond Farmville. At the urging of several Longwood professors, he applied for, and was accepted into, a National Science Foundation Research Experience for Undergraduates (REU) researching environmental toxicology on Lake Michigan. He continued his research in freshwater ecology for the rest of his time at Longwood, ultimately leading to his acceptance into graduate school at UNC-Greensboro, where he received a Master of Science in 2005. Between his Master's and Ph.D., Dr. Northington worked for three summers on the North Slope of Alaska studying arctic lakes. Dr. Northington returned to Virginia, where he earned a Ph.D. in aquatic ecology from Virginia Tech in 2013.



Currently, Dr. Northington is a Research Assistant Professor in the Climate Change Institute at the University of Maine, conducting research on freshwater ecosystems in both Maine and Greenland.



**Office of Alumni and Career Services**  
**8:45 A.M. – 4:30 P.M.**

Macrae Hammond, Director of Professional Networks, and Bryan Rose, Director of Career Services, will be at table in the Blackwell Ballroom to help with career and grad school related needs. Any questions regarding networking in your field, job/grad school application documents, or career opportunities can be discussed by visiting Macrae and Bryan. Please consider stopping by to connect!

Bryan and Macrae will be available for consultation in the Blackwell Foyer from 8:45 A.M. – 4:30 P.M., and in the Library Atrium (at the Graduate Symposium Registration table) from 2 – 2:30 P.M. and from 3 – 3:30 P.M.





**Oral Presentations: Biology 251, 9:00AM-12:30PM, Ruffner 115**

Faculty Mentors: Dr. Mary Lehman and Dr. Sujan Henkanaththegedara

9:00AM – Dillon Tennis, Briana Smith, Jesse Beckman, Shanyia Chandler, “The Influence of tree Species on terrestrial Microfauna”

9:20AM – Alexandra Gracey, Amber Green, Francine Gaston, Brandon Hastings, “The Effects of Cigarette Butt Pollution on Phytoplankton”

9:40AM – Eric Lewis, Connor Reaman, Jessica Cagnina, Madelyn Kendrick, Kaelyn Jefferson, “The Effect of Sunflower Seed Supplementation on Avian Foraging”

10:00AM – Christopher Yeager, Earl Long, Ethan Tabbert, Danielle Zipfel, “The Impact of Pesticides on Cucumber Seed Germination”

10:20AM – Erin Maloney, Arleigh Wood, Emma Rogers, “Effect of Urban Developments and Physical Parameters on the Richness of Animal Species Around Lancer Park”

10:40AM – Adrianna Doggett, Alice Lomeling, Hannah Clifford, Mckenzie Johnson, “The Effects of Weather Conditions on the Vernal Pool Communities of Lancer Park”

11:00AM – Dorian Tignor, Ted Gutches, Jada Motta, “Water Quality on Species Diversity in Local Ponds”

11:20AM – McKayla Parker, Megan Hatfield, Joy Hernandez, Saveya Patterson, “Effects of Physical Chemical Parameters on Aquatic Communities”

11:40AM – Tanjamarie Skalda, Ally Salomon, Giselle Diel, Talbot Thames, “Sampling Lancer Park Pond. Species diversity and abundance based on temperature change”

12:00PM – Bailey Gadberry, Makayla Davis, Jessica Daugherty, “The Effects of Weather Conditions on Bird Activity Patterns”



**Oral Presentations: PRISM, 9:00AM-12:30PM, Ruffner 116  
Perspectives on Research in Science and Mathematics**

- 9:00AM – William Kish (Faculty Mentor: Dr. Sujana Henkanaththegegarala), “Physio-chemical effects on vernal pool communities in High Bridge Trail State Park”
- 9:15AM – Victoria Acosta (Faculty Mentor: Dr. Sujana Henkanaththegegarala), “Vernal Pool richness and diversity of species at High Bridge Trail State Park”
- 9:30AM – Jordan Howard (Faculty Mentor: Dr. Troy Purdom), “Evaluation of running anaerobic sprint test (RAST) in division 1 female soccer players across the summer and competitive seasons”
- 9:45AM – Matthew Bowman (Faculty Mentor: Dr. Benjamin Campbell), “Concept Models as Planning Tools for Practicing Science Teachers”
- 10:00AM – Meagan St. John (Faculty Mentor: Dr. Erin Shanle), “The use of CRISPR/Cas9 to identify and target bromodomain mutations of p300 in cancer”
- 10:15AM – Lauren Johnson (Faculty Mentor: Dr. Benjamin Topham), “A computational study of single molecule electronics”
- 10:30AM – Derek Holmberg (Faculty Mentor: Dr. Kenneth Pestka), “The Physical and Acoustic Analysis of Wooden Baseball Bats Using Resonant Ultrasound Spectroscopy”
- 10:45AM – Dakota Martin (Faculty Mentor: Dr. Julian Dymacek), “Hybrid Distributed Constrained Non-negative Matrix Factorization”
- 11:00AM – Jordan Berkompas (Faculty Mentor: Dr. Thomas Wears), “The Geometry of Curves and Surfaces via Moving Frames”
- 11:15AM – Caitlin Harris (Faculty Mentor: Dr. Erin Shanle), “Using Yeast as a Model Organism to Study Cancer Mutations”
- 11:30AM – Cody Hyle (Faculty Mentor: Dr. Denis Trubitsyn), “Determining the molecular mechanisms effecting the morphology of bacterial magnetic crystals”
- 11:45AM – Dillion Tennis (Faculty Mentor: Dr. Christopher Labosier), “Is there an urban heat island in Farmville, Va?”
- 12:00PM – Lindsey Sparrock (Faculty Mentor: Dr. Catherine Franssen), “Effects of Aquatic Therapy on Salivary Cortisol in Autistic Versus Non-Autistic Children”



**Oral Presentations: GAND 105 Students, 9:00AM-12:30PM, Bedford 209**

Faculty Mentor: Dr. Wade Lough

Project: The Story of an Everyday Object

- 9:00AM—Angeli Leong, Arwin Heppard, and Camron Green, “Newspapers”
- 9:20AM—Christopher Accurso, Paige Blaha, Michelle Cabellos, “Coins”
- 9:40AM—Madeline Heinburg, Victoria Coleman, Dave Haig, Tina King, “Balloons”
- 10:00AM—Sha’Rena Miller, Lauren Ratanataya, Arianne Green, Mason Vest, “Birdhouses”
- 10:20AM—Allison Everson, Jacob Norman, Andrew Harnois, Paige Brasili, “Masks”
- 10:40AM- Carolyn Durloo, Allison Connelly, Christopher Oluh, Courtney Mason, “Light bulb”
- 11:00AM- Lauren Quezada, Micaela Shrauder, Nicholas Hellar, “Ruler”
- 11:20AM- Sophia Tamilio, Madison MacDonald, Travis Brown, “Cookbook”
- 11:40AM- Nathan Gowdy, Mitzi Cater, Corbin Brickhouse, Taylor Stoneking, “Projector”
- 12:00PM- Chablise Hammie, Taran Rinaldi, Caitlyn Hintze, “Watch”



**Research Presentations: Theatre 448, 9:30AM-12:00PM, CSAT Lab Theatre**  
Faculty Mentor: Dr. Ronda Scarrow

- Ms. Natalie Bellatty, "Wild Things in the Classroom, Bringing Literature to Life"
- Ms. Jordan Hairston, "Wild Things in the Classroom, Bringing Literature to Life"
- Mr. Kenneth Hicks, "Wild Things in the Classroom, Bringing Literature to Life"
- Mr. Patrick Hill, "Wild Things in the Classroom, Bringing Literature to Life"
- Mr. Sebastian Lacoss, "Wild Things in the Classroom, Bringing Literature to Life"
- Ms. Anna Barnwell, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Miranda Barringer, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Jahnay Davis, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Mallory Browning, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Makayla Fallejo, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Jessica Gromley, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Mercedes Hodges, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Sarah Kasko, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Mr. Randall Linkins, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Stephanie Miller, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Madeline Payne, "If You Give a Student a Chance, Comprehension Beyond the Text"
- Ms. Anna Baldwin, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Ms. Sarah Boehling, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Miss Morgan Card, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Miss Tamara Confer, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Ms. Sydney Hague, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Ms. Josephine Minni, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Ms. Madison Snead, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Ms. Raigan Tarkington, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Ms. Bethany Dennis, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"
- Ms. Courtney Faison, "(Pre-Service) Teacher Feud-Learning is Not Boring When the Arts Help Scoring"



**Oral Presentations: Visual Arts Senior Students, 11:00AM-12:00PM, LCVA  
Longwood Center for the Visual Arts**

11:00AM: Brea Fowlkes, "It's Who We Are"

11:10AM: Ashley Shukrallah, "Four Seasons Shattered"

11:20AM: Caroline Chatfield, "Wonderment"

11:30AM: Heather Green, "Trump USSR propaganda posters"

11:40AM: Brandyn Johnson, "Photography Studio"



**Posters: Communication Studies, Psychology, Sociology, Nursing, 9:00-10:00 A.M.,  
Blackwell Ballroom**

**Poster Numbers: 1- 34: Communications 461 (Faculty mentors: Dr. Kris Paal and Dr. Alec Hosterman)**

- Madison Miles and Caroline Nelms, “News Literacy”
- Rachel Ciehoski and Carson Smith, “That Awkward Moment”
- Iya Murray and Curtis Ormsby, “The Effectiveness of Health Threat Messages Communicated Through Social Media”
- Jacklyn Nungesser and Laikyn Farmer, “Incentivizing Crisis Management for Millennials”
- Laurelyn McCauley and Ann Carter, “College Students Willingness to Communicate About Sex Education”
- Emilee Jones and Abigail Stanzione, “Impact of Campus Tours and Marketing Materials on Perceptions of Campus Diversity”
- Allison Helms and Timothy Bradt, “College Students Interpretations of Same Sex Couples on Television”
- Emily Carroll and Mikayla Clark, “The Influence of Language in Sitcoms”
- Colin Healey and David Rawls, “Comparing the United States and Kenya Social Media Use in Elections”
- James Venti and Marcia Logsdon, “It’s All Greek: The Relational Development of Recognized and Unrecognized Greek Members”
- Brittany Smith and Sarah Stanton, “American Apparel’s Role in the Sexualization of Women in Advertising”
- Kyle Bourassa and David Pettyjohn, “MMS Games and Player Perceptions”
- Elizabeth Green and Allyson Stone, “Female College Student's Perception of Brand Ambassadors”
- Emily Neighbors and Alexandra Kiszka, “Netflix & Relationships: Could binge-watching have an effect on your romantic relationship?”
- Rebecca Beverly, “Finsta Vs. Insta: The Effects Security Setting Have on Users Posts”
- Robyn Quarles and Shelby Shelton, “Communicative Motives behind College Females Using Finsta to Display Antisocial Behavior”

- Halle Parker and Payton Conway, “Framing the Confederacy: How the news affects the public’s discussion of Confederate symbols”
- Ryan McManus, “Religion Relation in Media”
- Toviea Dillahunt and Autumn Childress, “#MeToo...Why You?”
- Alani Battle and Sierra Poston, “Why Do I Have to Look Like Her? An analysis of women’s perception of body image”
- Hollyn Royster and Madison Stair, “College Student-Athletes Perceptions of Gender Bias in Sports Media”
- Alexandra Moushegian and Keaton Busser, “Hiring and Retaining Nurses in Rural Geographical Settings by Hospital Administrators or Human Resource Managers: The Use of Organizational Assimilation Theory in Hospital Settings”
- Isiah Wiggins and Brian Hrozencik, “The Effect of Characteristics in YouTube Music Videos on the Purchasing of the Artist Music”
- Alexandra Woods, “The Effects of Online Flirting Behaviors and Social Media Messaging Patterns on Furthering Romantic or Sexual Communication”
- Caitlyn Graves and Miranda Nash, “Do You Have A Friend In Me?”
- Jaclyn Padgett, “Framing in Online Articles from FOX News and MSNBC About Terrorism”
- Christine Venier, “On Trend: The Use of Social Media in Establishing Brand Identity”
- Madison Hendricks, “Hyper-Femininity in Animated Disney Movies”
- Maggie Butters and Victora Sol, “What are you saying on Tinder? How initial messages affect users impressions and habits while using online dating applications”
- Anthony Viola, “National Anthem Protests in the NFL”
- Clayton Brooks and Seth Rice, “The Causes and Effects of FOMO on Social Media Users”
- Maurice Scott and Joe Reidy, “The Perception of Humor in the Classroom”

**Poster Numbers: 35- 45: Psychology 461 (Faculty Mentors: Dr. Sarai Blincoe and Dr. Stephanie Buchert)**

- Scott Welty, Morgan Barker, Lauren Brown, “The Effect of Color on Emotion Recognition”
- Carrie Zimmerman, Louise Lever, Kate Ratliffe, “What Would a Painting Gogh For? Names Play a Role in Perception of Value”
- Edel Nyland, Lachlan Manser, “The Effects of Having an Excuse on Performance of a Physical Task”
- Kelsey Bridges, Dana Lyon, Megan Chiodo, “The Effects of Budgeting Finances on College Students' Physiological Stress Repsonse”



- Megan Hatfield, Elizabeth Pritchard, “The Effect of Authoritative Pressure on Test Performance and Anxiety”
- Harper Epps, Alexa Artis, Kimberly Branch, “Senior Seminar”
- Tiffany Walton, Kristen Childs, Briana Hackett, “How Aromas Effect Anxiety in a Classroom Setting”
- Emily Barksdale, Lilley Fitzgerald, Kaitlyn Cannon, “The Effect of Cell Phone Location on Anxiety”
- Ashley Crabtree, Megan Mayton, “Instagram Endorsements: The Effect of Number of Followers and Product Placement on Purchase Intention”

**Poster Numbers: 46- 51: Psychology Independent Research**

- Kaitlin Vitantonio, Haley Grossman (Faculty Mentor: Dr. Sarai Blincoe), “The Effects of Flavor on Perceptions of Personality”
- Colin Schmetzer (Faculty Mentor: Dr. Eric Laws), “Anxiety in Different Situations: Testing vs Public Speaking”
- Kelsi M. Forehand, Katheryn M. Kosiorek, and Courtney M. White (Faculty Mentor: Dr. Eric Laws), “The Effects of Aggression and Introversion on Enjoyment of Horror Related Entertainment “
- Charlotte Lackey, Kayla Peterson, and Sara Stephens (Faculty Mentors: Dr. Eric Laws and Dr. Stephanie Buchert) “The Effects of Homepage Organization and Previous Experience on Navigating a Learning Management System”
- Marie Danner, Madison Hill, Leonie Verstraete, and Claire Walker (Faculty Mentor: Dr. Stephanie Buchert), “The Effects of an Adult Model on Four-Year-Olds’ Metacognitive Reasoning Skills”

**Poster Numbers: 52- 66: Sociology 461 (Faculty Mentor: Dr. Jake Milne)**

- Lindsay Morrison, Katie Harper, “A Look at Medicaid in Virginia”
- Dylan Vanbalen, Tracey Burnham, “Racial Effects on Coming Out”
- Karleigh Donovan, Briana Cary, “The Victims of Trafficking and Violence Prevention Act”
- Katie Fabian, Taylor Hayes, “Food and Drug Administration Act”
- Robert Aldredge, Alex Birch, “Free and Reduced Lunch Programs in the United States”
- Brianna Grove, Robyn Davis, “Parenting Styles and Childhood Anxiety”
- Eoin Odonovan, Tom Devitt, “Gun ‘control’”
- Jenna Tomayko, Benjamin Pence, “Policy Analysis of Tax Cuts and Jobs Act”
- Alexander Barker, William Bruce, “The Effect of University Organizational Change on College Students”
- Maria Matrozzo, Jesse Call, “Use and Motives Behind Non-Medical Prescription Stimulants”
- Ashleigh Cash, Alyssa Douglas, “Child Abuse and Prevention Treatment Act”

- Jacey Klein, Emily Canada, “Policy Analysis of the Family and Medical Leave Act”
- Miranda Wilson, Jovana Vukovic, “Policy Analysis”
- Mariah Robinson, Dante Bowles, “Interracial dating opinions and attitudes on Longwood campus”

**Poster Numbers: 67- 80: Nursing 230 (Faculty Mentors: Prof. Pam Crowder and Prof. Theresa Kennon)**

- Kierra Bohn, Claudia Hayes, Sara Yates, “What factors/interventions prevent burnout in the nursing profession?”
- Emilee Agnor, Victoria Burgess, Mackenzie Finchum, “Nasogastric Tubes: The most effective way to ensure correct placement”
- Erin Murphy, Morgan Stamp, “Hand washing vs hand sanitizer: Which is the most effective and efficient?”
- Cassie Wharam, Elizabeth Nelson, Katherine Triebsch, “Does evidence-based practice show hourly rounding having a positive effect on patient's safety?”
- Elizabeth Schmied, Michaela Gibson, Colton Thames, “Accuracy of Automatic Blood Pressure Measurement Devices Vs. Manual Measurement”
- Alexis Flippen, Shannon Altland, Lindsay Myers, Naya Nicholson, “Based on evidence-base practice: Does music therapy decrease generalized pain in adults when compared to sedatives?”
- Mariah Foldes, Olivia Afshari, McKenzie Vrooman, Amanda Talley, “Is two better than one: Are the number of hospital acquired UTIs affected by the number of licensed professionals used to insert a urinary catheter?”
- Liz McMullen, Helen Chhay, Kayla Muscat, Haley Ruddick, “What effect does nurse fatigue have on patient outcomes?”
- Jack Campbell, Abby Morrow, Alysha Knapp, “What impact does visual impairment have on quality of life?”
- Emma Carroll, Kelsey Ostrowski; Natalie Harrington, “Does the benefit of marijuana use outweigh the risks in Parkinson’s patients?”
- Cortney Pickett, Kassidy Knight, Sarah Bashaw, Caroline Pisciotta, “What factors/interventions decrease urinary tract infections in hospitalized patients?”
- Lori Seamster, Arianna Papanicolas, Lauren Reiger, “What is the most effective way to prevent pilonidal cysts?”
- Makayla Massie, Samantha Hall, Sophia Manhertz, “How does the use of goggles with gloves decrease infection in the acute care setting?”



**Posters: History, Political Science, Psychology, Criminology, Chemistry, General Education, 10:15-11:15 A.M., Blackwell Ballroom**

**Poster Numbers: 1- 28: History 461 (Faculty mentors: Dr. David Coles and Dr. Steven Isaac)**

- Rexford Jones, "The Ghosts of World War II"
- Aaron Woloshin, "War, Religion and Lies: Archibald Campbell, 8th Earl and 1st Marquis of Argyle's involvement in the First Scottish Civil War"
- James Sterlin Foster, "Justice and The Peloponnesian War"
- Anne Thrasher, "Republican Motherhood During the American Revolution"
- Brandon Croteau-Brinsfield, "Andrew Jackson and the Nullification Crisis"
- Maeve Losen, "Military Politics in Allied Command and Operation Market Garden"
- Rachel Mullen, "Lebensborn"
- Cristina Aviles, "Fidel Castro's Social Rule on Cuba"
- Savannah Blake, "The Pentagon Papers and Anti-War Sentiment During the Vietnam War"
- Peter Hackett, "Massive Resistance Movement in Virginia"
- Amanda Tyler, "Women in the Second Great Awakening"
- Ethan Burgess, "The Barbary Wars: An Exercise in Imperialism?"
- Kristen Towberman, "The end of Norse Mythology and the beginning of Christianity"
- Stephen Cody Short, "Grace Sherwood the only witch to be prosecuted in the state of Virginia"
- Dennis Anthony, "Geography in the Battle of Yorktown"
- Grant Matherly, "Spanish Civil War"
- Kenny Jones, "The Guild Effect"
- Cody Slaughter, "Senior Seminar"
- Amanda McGregor, "Effect of WWI on the Lost Generation"
- Lauren Huffman, "The Execution of the Romanovs was one aspect of the Rise of Anti-Communist sentiments in The United States"
- Michael Branca, "Medical Treatment of Poison gas during World War I"
- Amanda Wilicki, "Impact of General Sherman's March to the Sea and Carolinas Campaign"

- Hunter Schmitz, “Logistics of Hannibal”
- Joshua Henry, “Senior Seminar”
- Joseph Harp, “Project Ultra in World War Two”
- Diana Ailstock, “Women’s Suffrage and the 19<sup>th</sup> Ammendment”

**Poster Numbers: 29- 32: Political Science 461 (Faculty mentor: Dr. N. Scott Cole)**

- Forthcoming
- Forthcoming
- Forthcoming

**Poster Numbers: 33- 42: Psychology 461 (Faculty Mentors: Dr. Sarai Blincoe and Dr. Stephanie Buchert)**

- Jashania Gatling Garrette, Katherine Harris, Claire Walker, “The Psychology of "If": The Effect of Extrinsic Motivation on Accuracy and Satisfaction”
- Courtney White, Kelsie Forehand, “The Irony of Inaccurate Eyewitness Testimony: A Study of Crime Violence and Interviewer Correction”
- Kayla Peterson, Stephanie Ketcher, Felicia Tortorici, “Drink Temperature and the Perception of Likeability”
- Hannah Daniels, Emily Jarrell, Brenell Banks, “This little light of Mine, Does it Matter how Bright you Shine on Task Difficulty?”
- Rebecca Good, Hannah Wyers, Kaitlin Okelly, “Does Family Structure Affect the Perceptions of Children's Academic Performance?”
- Colin Schmetzer, Chanel Carter, “Stopping Stigma Towards Bipolar Disorder: Educational Videos vs Personal Messages”
- Jessica Akers, Charlotte Lackey, “The Short-Term Effects the Media has on Perception of Safety”
- Marie Danner, Jessica Bracco, “The Effect of Aromatherapy on Perceived Attention Level”
- Sydney Mundell, Ryan Shull, ““Win from Within’: Self-Talk versus Crowd-Talk”

**Poster Numbers: 43- 53: Criminology 335 (Faculty Mentor: Prof. Jennifer Cox)**

- Andrew Chisholm, Zachary Rugen, Andrew Guerra, “The Correlation Between Low Levels of Education and Continued Delinquency into Adulthood”
- Cecil Hayes, Kira Rivers, Amanda Griffiths, “The Inescapable Effects of Parricide”

- Sydney Ann, Sara Stephens, Madison Simpson, “School Shooters: What Pushed Them to Offend?”
- Faisal Shari, Sheyenne Stretz, Maria Kirby, “School shooters: who is at risk?”
- Dorinda Fields, Michael Sunseri, Marion Butler, “Offender Risk Factors of Highschool Shooters”
- Kathryn Britts, Melanie Smith, Abigail Vaughn, “Risk Factors of Youth Gang Affiliation”
- Kira Davis, Deja Mitchell, Ciarah Bennett, “The influence of societal factors on juvenile delinquency”
- Madeline Davies, Tyler Swafford, “Causes of Youth Gang Involvement”
- Carrington Hamelette, Tyler Shores, “The Prevalence of Violence Among American Juveniles in Gangs”
- Lillian Herrington, Brendan Shea, Samuel Ayoub, “Teen Risk Factors Leading to Substance Abuse”

**Poster Numbers: 53- 62: Criminology 461 (Faculty Mentor: Dr. Virginia Beard)**

- David Jeffries, Brian Miller, Kyle Goss, “The Impact of Sex, Region of Residence, and Political views towards Capital Punishment”
- Jordan Albright, Drew Colona, Maria Materozzo, “The impact of socioeconomic status, race, and political views towards freeing the guilty or convicting the innocent”
- Claudia Castro, Brittany Lorentz, “The impact of political affiliation and college majors on attitudes toward spending on drug addiction”
- Zachary Rugen, Zachary Adams, Michael Szabo, “The Impact of Political Views, Citizenship, and Internet use, on Whether or Not the Government Should Be Allowed to Collect Data on U.S. Citizens Without Their Knowledge”
- Benjamin Pence, Lucas Wheeler, Sean Murdock, “Impact of Gun Culture, Hunting, Political Views, and Type of Residence on Views towards Gun Laws in the United States”
- Samuel Miller, Avery Allen, Justin Thornton, “The Impact of race, gender and age on fear of crime”
- Kayla Straub, Maria Sylvia, Maria Kirby, “The impact of age, political views, and main source of news information on views towards the legalization of marijuana”
- Katelyn Rowland, Kimberly Daucher, Christoffer Millson, “The Impact of College Major, Political View, and Socio-Economic Status Towards Sentencing Laws”
- Tiffany Ward, Peyton Gittman, Katie Gutierrez, “The impact of race, socio-economic stuff, and type of residence on views towards authorities having the right to search people in the street at random”

**Poster Numbers: 63- 68: Chemistry 403 (Faculty Mentor Dr. Sarah Porter and Dr. Ben Topham)**

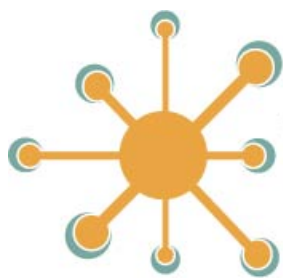
- Katharine Colley, “Methods for the detection and removal of PFOA in drinking water”
- Kaelyn Jefferson, “Determination of Polyhexamethylene Biguanide (PHMB) Concentration in Stream-Water and Pool-Water Samples By Photometric Titration With Naphthol Blue Black Dye For Determination Of Toxicity”
- Katelyn Rowland, “Analysis of Purification of Contaminated Water by Activated Carbon Filtration”
- Haily Kintz, “Detection and Quantification of Paraben in Drinking Water”
- Amber Towles, “The Analysis of Removing Trichloroethylene from Wastewater”

**Poster Numbers: 69- 74: Chemistry 302 (Faculty Mentor Dr. Melissa Rhoten)**

- Zachary Morgan, “What can be learned about conjugated molecules from their UV-Vis spectra?”
- Allison Mitchell, “What determines the rate of a reaction?”
- Hope Grausgruber, “Is that water polluted?”
- Sarah Goetz, “What can be learned about conjugated molecules from their UV/Vis Spectra”
- Katelyn Jones, “Can we use biological organisms as chemical sensors?”

**Poster Numbers: 75- 79: General Education 261 (Faculty Mentor: Dr. Alix Fink)**

- Carmen Mihling, Mitchell Andrew, Kelly Gilfillan, “Research Project”
- Kathryn Hedrick, Alexa Schirmacher, Christi Hyatt, “Aquatic Plants”
- William Vanorden, Melody Geisinger, “Fiddler Crab”
- Brittany Thompson, Noah Heptinstall, Lillie Rosson, Katie Gentry, “Compass Community Research Project”
- Tyana Martin, Rediet Fissiha, Enfiniate Phillips, Jonathan Morgan, “The Bay”



## Spring Symposium for Research and Creative Inquiry

### **Posters: Cormier Honors College, Independent Research Students (All Disciplines), 11:30AM-12:30PM, Blackwell Ballroom**

#### **Poster Numbers: 1- 42: Cormier Honors College for Citizen Scholars**

- Cassandra Tagert (ENGL 413, Faculty Mentor: Dr. Robert Lynch), “Defining post-postmodernism in art”
- Casey Bainbridge (ART 448, Faculty Mentor: Dr. Kelly Nelson), “3-D printing in the classroom”
- Kellen Spradlin (HLTH 325, Faculty Mentor: Dr. Amanda Blaisdell), “Cultural Competency Education in the Healthcare Setting”
- Zachary Morgan (CHEM 351, Faculty Mentor: Dr. Sarah Porter), “X-ray fluorescence spectroscopy in chemical analysis of bone fragments”
- Amanda Topping (ART 369, Faculty Mentor: Dr. Terri Sabatos) “Edward Sheriff Curtis and the White Perspective of Native Peoples”
- Maeve Losen (HIST 490, Faculty Mentor: Dr. Larissa Ferguson), “Elizabeth Van Lew and the Civil War”
- Mahelet Mamo (BIOL 450, Faculty Mentor: Dr. Amorette Barber), “Effect of Seven-in-Absentia Homolog 2 (SIAH2) on proliferation of Lung Cancer Cells”
- Madeline Kinkoph (NURS 350, Faculty Mentor: Dr. Lisa Minor), “Maternal & Newborn Nursing”
- Megan Bland, Matthew Bowman, Hannah Hatke, Alyssa Oppedisano (BIOL 399, Faculty Mentor: Dr. Adam Franssen), “The Human Advantage”
- Emilia Gamble (POSC 305, Faculty Mentor: Dr. Scott Cole), “The Open Secret: Stuxnet and Obama's Cabinet”
- Madison Cutten (KINS 486, Faculty Mentor: Dr. Jo Morrison), “Exercise Testing and Prescription”
- Jordan Berkompas (CMSC 350, Faculty Mentor: Dr. Don Blaheta), “Net Neutrality: A Case Study in the United States”
- Shane Crean (BIOL 404, Faculty Mentor: Dr. Amorette Barber), “Activation of cytotoxic T Cells by Toll-like Receptors as a Potential Treatment for Breast Cancer”



- Troy Clift (EASC 410, Faculty Mentor: Dr. Joe Garcia), “Classifying Members of the Chesapeake Group”
- Walter James Coleman (CMSC 420, Faculty Mentor: Dr. Julian Dymacek), “Steinhaus Graphs as a Tool”
- Tatianna Griffin, Kathryn Kosiorek (BIOL 326, Faculty Mentor: Dr. Dale Beach), “Effects of Gene Deletion on the Function of *Saccharomyces Cerevisiae* Cells”
- Abigail Mescher (ENGL 380, Faculty Mentor: Dr. Chris McGee), “Children’s Literature”
- Hannah Johnson (BIOL 330, Faculty Mentor: Dr. Mark Fink), “The Relationship Between the Iberian Lynxes and the European Rabbit”
- Danyelle Henderson (HIST 300, Faculty Mentor: Dr. David Geraghty), “NCSS Standards for High School”
- Amanda Holmes, Meredith Puryear, Hunter Purcell (CSDS 450, Dr. Lissa Power-de Fur), “The Relationship Between Music and Air”
- Amanda Holmes (CSDS 430, Faculty Mentor: Dr. Ronda Walker), “The ‘First People’ of Our Nation, One of the Last in Literacy”
- Haley Tebo (GAND 226, Faculty Mentor: Dr. Wade Lough), “Typography 1”
- Mary Anderson (PSYC 373, Faculty Mentor: Dr. Chris Bjornsen), “Effects of Poverty on Education”
- Amanda Holmes (Study Abroad), “The Journey of Federal Recognition for Virginia Tribes”
- Hannah Prem (MANG 362, Faculty Mentor: Dr. Haley Woznyj), “Diversity on Campus”
- Shane Crean (SPAN 201, Faculty Mentor: Dr. Fernandez Urenda), “The Importance of Spanish in Medical Professions”
- Sierra Garland (KINS 389, Faculty Mentor: Dr. Dan Michael), “The effect of movement on learning”
- Jenna Tomayko (CRIM 455, Faculty Mentor: Dr. Wright), “Comparison of the Chinese Constitution with a concentration on specific amendments”
- Jenna Tomayko (SOCL 376, Faculty Mentor: Dr. William Burger), “Attitudes Towards Gun Control at Longwood University”
- Kathryn Bates (BIOL 250, Faculty Mentor: Dr. Dale Beach), “Science is a way of life.- Ruth Sanger”
- Abigail Harris (BIOL 250, Faculty Mentor: Dr. Dale Beach), “The Odyssey of Dr. Terrie M Williams”
- David Sawyer (BIOL 250, Faculty Mentor: Dr. Dale Beach), “Rachel Carson: The Poet Scientist”
- Dorian Tignor (BIOL 250, Faculty Mentor: Dr. Dale Beach), “Dr. Beatrice Hahn: A Pioneer in Science”

**Poster Numbers: 43- 60: Independent Research Students (All Disciplines)**

- Andrea Soles (Faculty Mentor: Dr. Amorette Barber), “Enhancing the anti-tumor efficacy of chimeric-PD1 expressing T cells with naturally occurring plant stilbenes”
- Elle Richardson (Faculty Mentor: Dr. Amorette Barber), “Chimeric PD1- expressing T cells as a potential treatment of prostate and bladder cancers”
- Shane Crean, Geoffrey Parriott (Faculty Mentor: Dr. Amorette Barber), “Inclusion of a Dap10 costimulatory domain enhances anti-tumor efficacy of chimeric PD1-expressing T cells in multiple types of solid tumors”
- Ashley Cake (Faculty Mentor: Dr. Amorette Barber), “PD1-induced anergy is differentially regulated by CD28 and NKG2D costimulation in murine CD8 T cells”
- Brittany Kyle (Faculty Mentor: Dr. Mary Lehman), “Comparison of intermittent and continuous allelochemical stress in plant bioassay experiments”
- Jacob Giles (Faculty Mentor: Dr. Troy Purdom), “Training stress on lower body mobility, joint symmetry and anaerobic power in Division I female soccer players across the competitive season”
- Patrick Martin (Faculty Mentor: Dr. Kyle Levers), “The effect of detraining and body composition and power production in female collegiate athletes”
- Briana Bissell (Faculty Mentor: Dr. Rhonda Brock-Servais), “Mental Illness in Fantasy Young Adult Literature”
- Jordan Howard (Faculty Mentor: Dr. Troy Purdom), “Evaluation of running anaerobic sprint test (RAST) in Division 1 female soccer players across the summer and competitive seasons”
- Chase McPherson (Faculty Mentor: Dr. Troy Purdom), “Comparison of different RMR prediction equations over a nine week detraining period in Division I female soccer athletes”
- Lindsey Brown ((Faculty Mentor: Dr. Kyle Levers), “Effects Of Short-Term Detraining on Measures of Anaerobic Power in Division I Female Soccer Athletes”
- Katherine Hartley (Faculty Mentor: Dr. Thomas Wears), “The Geometry of Bicycle Tracks”
- Mary Zell Galen (Faculty Mentor: Dr. James Munson), “Paper Money and Pitt’s Gold: Exploring Cultural Reactions to the 1797 Bullionist Controversy”
- Nicole Marzolf (Faculty Mentor: Dr. Michelle Parry), “Applications of Spherical Geometric in Physics”
- Olivia Zaleski, Lee Van (Faculty Mentor: Dr. Scott McElfresh), “Concert Band Website”
- Ethan Tabbert (Faculty Mentor: Dr. Ed Kinman), “Virginia Geographic Connections During the Late Colonial Period”



**Oral Presentations: ENGL 301, 1:45-4:00PM, Ruffner 116**

Faculty Mentor: Dr. Elif Guler

1:45PM – Savannah Dyer, “Don’t Ever Give Up’: A Rhetorical Perspective to How Jim Valvano Refused to ‘Shut Up and Dribble’”

2:00PM – Kimberly Daucher, “A Different Use of Rhetoric in the Criminal Justice System: An Aristotelian Critique of Barack Obama’s Address to the NAACP”

2:15PM – Karyn Keane, "The Rhetoric of the Spare in Dumbledore’s Eulogy for Cedric Diggory in Harry Potter and the Goblet of Fire"

2:30PM – Breanne Henshaw, “Neo-Aristotelian Criticism: Ashley Judd's Speech at the 2017 Women's March on Washington D.C.”

2:45PM – Charleigh Kondas, “‘Inaction is inaction. Silence is indifference’: Judge Aquilina’s Neo-Aristotelian Success”



### **Oral Presentations: Independent Research, 1:45-4:00PM, Ruffner 115**

1:45PM – Katelyn Jones (Faculty Mentor: Dr. Andrew Yeagley), “Investigating the structure activity relationship of the ester moiety in parabens through the analysis of bioisosteres”

2:00PM – Katelyn Rowland, Harley Hodges (Faculty Mentor: Dr. Sarah Porter), “MicroboCop”

2:15PM – Grant Smith (Faculty Mentor: Dr. Leigh Lunsford), “Using Regression to Predict Student Success in Statistics”

2:30PM – Hailey Kintz (Faculty Mentors: Dr. Amorette Barber and Dr. Andrew Yeagley), “Exposure to parabens inhibits anti-tumor immune responses of CD4 T cells”

2:45PM – Kaelyn Jefferson (Faculty Mentor: Dr. Andrew Yeagley), “Investigating the Synergy between Paraben Derivatives and Penicillin and Erythromycin”

3:00PM – Breana Figueroa (Faculty Mentor: Dr. Thomas Wears), “The Attempted Transfer of Theorems in Euclidean Geometry to Hyperbolic Geometry”

3:15PM – Katherine Hartley (Faculty Mentor: Dr. Thomas Wears), “Geometry of Bicycle Tracks”

3:30PM – Katherine Plucinski (Faculty Mentor: Dr. Dina Leech), “Dissolved Organic Matter (DOM) Exports from Hull Springs Farm, Westmoreland County, VA”

3:45PM – Jennah Gunter (Faculty Mentor: Dr. Rhonda Brock-Servais), “Women Novelists”



**Oral Presentations: GAND Senior Design Students, 3:00-4:45 PM, Bedford 209**

Faculty Mentor: Dr. Wade Lough

3:00PM: Austin Berry, “The Daily Field Guide for Creative Professionals”

3:20PM: Pamela Dahl, “The Hand Bettering Workshop”

3:40PM: Lan Phan, “Tying Back to Vietnam”

4:00PM: Allie Snavely, “Skinformed”

4:20PM: Alesa Sumpter, “Rewind: Back Before Technology”



**Graduate Symposium, 2:00 – 6:00 P.M., Greenwood Library**

Join the students from the College of Graduate and Professional Studies as they present their research. Disciplines include counseling, elementary and middle school mathematics, health and physical education, reading, literacy & learning, school librarianship, speech-language pathology, and special education.

<b>2 : 3 0 - 2 : 4 5</b> <b>LOBBY BALCONY</b>	<b>Welcome by Provost Fergeson</b>
<b>2 : 4 5 - 3 : 2 0</b> <b>LOBBY BALCONY</b>	<b>Poster Session I</b>
<b>3 : 2 0 - 3 : 5 5</b> <b>LOBBY BALCONY</b>	<b>Poster Session II</b>
<b>4 : 0 0 - 5 : 4 5</b> <b>ROOMS 147 , 209A ,</b> <b>AND 209B</b>	<b>Oral Presentation Session</b>
<b>5:45</b> <b>GSA GATHERING</b> <b>SPACE ( 2 1 0 )</b>	<b>Symposium Reception</b> <b>Closing Remarks by Dean Chapman</b> <b>Awards Presentation by Dean Perry and Dean Chapman</b>



**Music Presentations: Music 219, 2:00PM-4:30PM, Wygal Music Building  
Molnar Recital Hall**

Faculty Mentor: Dr. Roland Karnatz

2:00PM - Breanna Phoenix, "Caterpillar and Bela"

2:05PM - Ryan Flanagan, "Crash"

2:10PM - Norman Hurt, "Race Car"

2:15PM - Nate Irving, "Strike"

2:20PM - Devin Rivera, "Fog"

2:25PM - Leigha Truini, "Sweet Memory"

2:30PM - Chris Ware, "Ben's Toe"

2:35PM - Ellie Swanson, "Draining the Swamp"

3:00PM – 4:30PM

Music 281 – Sophomore Promotional Presentations:

Ellie Swanson

Christopher Ware

Andrea Busch

Samuel Taylor

Breanna Phoenix

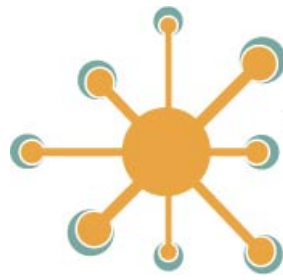
Norman Hurt

Halie Leslie

Music 483 – Bachelors of Arts Senior Project Presentation

Leanne Downing





Spring Symposium  
for Research and  
Creative Inquiry

**Posters: Biology, Integrated Environmental Science, Social Work, Education, and Health, Recreation, and Kinesiology, 1:45-2:45PM, Blackwell Ballroom**

**Poster Numbers 1- 16: Biology 250 (Faculty Mentors: Dr. Dale Beach and Dr. Consuelo Alvarez)**

- McKenzie Johnson, Jess Cagnina, “Isolation and Identification of Environmental Yeast Strains”
- Antonio Robertson, Hunter Gillespie, “Isolation and Identification of Environmental Yeast Strains”
- Megan Barnard, Terika Williams, “Isolation and Identification of Environmental Yeast Strains”
- Alice Lomeling, Amber Green, “Isolation and Identification of Environmental Yeast Strains”
- Ariana Olds, Samantha Morris, “The Identification and Isolation of Environmental Yeast”
- Kelsey Thornton, Cody Gouyer, “Isolation & Identification of Environmental Yeast Strains”
- Raquel A. Perez, LaQuinta Pace, “The yeast diversity effect from different temperatures”
- Eric Lewis, Doron Adu-Gyamfi, “Isolation and Identification of Environmental Yeasts”
- Haley Bresnahan, Spencer Peeples, “Isolation and identification of environmental yeast strains”
- Brandi Joyner, Chloe Finlay, “Isolation and Identification of Environmental Yeast Strains”
- Ted Gutches, Juan Patino, “The presence of yeast in the garbage containers of Dorrill Dining Hall”
- Dori Tignor, Abigal Harris, “Yeast Species Identification on Grocery Store Strawberries”
- Kathryn Bates, Emmie Jefferson, “You are what you eat: Wild Yeast from Sourdough Bread Starter”
- Makayla Davis, Cole Milliron, “Identifying Yeast Species in Soil from Lancer Park's Forest Habitat”
- Carrie Zimmerman, Christina Amoruso, Sarah Dooley, “Isolating and Identifying Wild Yeast on Strawberries”

**Poster Numbers 17- 23: Biology 450 (Faculty Mentor: Dr. Amorette Barber)**

- Jessica Daugherty, Morgan Perkins, Jazmyn Dennis, “The Effects of HPV and Estrogen on Cervical Cancer”
- Taryn Kowal, Sep Harandi, Andrea Soles, Rex Liggon, “Comparison of the Interaction of BPA and BGF on Androgen Receptors in Murine Prostate Cancer Cells”
- Kari Stokes, Paula Amburgey, Kameron Fradette, Lauren Matthews, “The Effects of Cytokines on Estrogen Levels in Uterine Cancer”

- Katy Kosiorek, Ellie Richardson, Deanna Di Silvio, Geoff Parriott, “The Efficacy of Cannabinoids in Decreasing Growth and Angiogenesis in Murine Glioblastoma Cells”
- Meagan St. John, Kaitlyn Marston, Hastings Williamson, Angelica Romero, “Prevention of chronic inflammation induced ovarian cancer using NSAIDs”
- Zach Sergi, “Hyperthermia and chemotherapy using Fe(Salen) nanoparticles might impact glioblastoma treatment in canine models

**Poster Numbers 24- 35: Biology 330 (Faculty Mentor: Dr. Mark Fink)**

- Brittney Beazley, Hannah Johnson, Jonathan Milisci, “How does global warming and ocean acidification impact the health of coral reefs and its surrounding ecosystem?”
- William Kish, Michael Pagliuca, “Environmental Assessment of Invasive Snake Species”
- Andrea Soles, Nikki Copenhaver, “How is the population density of the Florida Panther affected by human activity?”
- Maddie Sodikoff, Deanna Di Silvio, “The Palm Oil Industry in Indonesia and its Effects on Species and Habitats”
- Kyrsten Gage, Kirsten Cornwell, “Effects of Climate Change on Sea Turtles”
- Colin Dominick, Hosam Abdelrahman, “Chytrid Fungus in Amphibians”
- Tiffany Yun, Hastings Williamson, “The Effects of Climate Change on Breeding and Fasting of Polar Bears”
- Morgan Karnes, Elizabeth Hayden, “Quantifying Risk Factors of Sharks in Different Regions of the World”
- Sepehr Harandi, Emery, “Which animals are more at risk in the open of the Brazilian rainforest”
- Stewart Beaumont, Blake Haymore, “Differences in Coral Bleaching Rates”
- Kaitlyn Marston, Victoria Acosta, “Recovery of the Saimaa Ringed Seal”

**Poster Numbers 38-69: Education 433 (Faculty Mentors: Dr. Evan Long and Dr. Patti Hastings)**

- Megan Amsler, “Math Interventions for 6th Grade”
- Meredith Bennett, “Data-driven Intervention in Math”
- Elizabeth Farruggio, “Finding and Fixing Error Patterns in Elementary Mathematics”
- Megan Gunn, “Math Magician: Erasing Errors in Elementary Mathematics”
- Jenna Hamlett, “Case Study of a Successful Data-driven Intervention in Elementary Mathematics”
- Brenna Kinzel, “21st Century Teaching in Elementary Mathematics”

- Mallory Martin, “On Children's Mathematical Reasoning: Data-driven Diagnosis and Intervention in Elementary Mathematics”
- Christina Matzke, “Numbers and Newbies: Data-driven Interventions in Elementary Math Settings”
- Kayley Mihelic, “First Rate Solutions for First Grade Problems: My Data-driven Math Intervention”
- Grace Reynolds, “Error Patterns in Elementary School: Reflections on my Intervention”
- Kristen Sarver, “My IADDIM Project: Lessons Learned from an Intensive Mathematics Intervention”
- Sarah Stech, “Making Math Less Murky: Results from a Data-driven Intervention”
- Cassidy Taber, “Math Teacher to the Rescue: Diagnostic and Intervention Tools in Elementary Schools”
- Allison Hynson, “IADDIM”
- Charlotte Edmonds, “Elementary Math, Science, and Social Studies Methods”
- Kahla Mawyer, “Elementary Mathematics Science & Social Studies”
- Meagan Shuford, “IADDIM”
- Kylie Embrey, “Elementary Math, Science, and Social Studies Methods”
- Virginia Colvin, “IADDIM”
- Hunter Hogan, “Education Practicum Application/ Education Social”
- Annabelle Harlowe, “IADDIM”
- Bailey Rice, “IADDIM”
- Kailey Craddock, “IADDIM”
- Allie Pompeo, “4th Grade Mathematics Research”
- Gabrianna Cook, “IADDIM”
- Alexandra Graham, “Elementary Math, Science, and Social Studies Methods”
- Sara Keaton Gregory, “IADDIM”
- Hailey Dillard, “IADDIM”
- Caitlin Coates, “IADDIM”

**Poster Numbers 70-74: Kinesiology 470 (Faculty Mentor: Dr. Troy Purdom)**

- Tiffani Phillips, Kathleen McGovern, Kyra Horlock, “The effects of plyometric exercise on maximal vertical jump height in recreationally trained female athletes”
- Cody Bell, Hannah Foster, Brianna Kelly, Doug Buchanan, “Characteristics of Music’s Effect on Aerobic Exercise Distance”
- Krystal Franklin, Ashleigh Bielen, Morgan McGrath, “The effects of squat jumps on anaerobic power in recreationally trained male volleyball players”

- Jake Giles, Tristan Wind, Carter Leake, Sam Yardley, “The relationship between creatine supplementation and high-intensity exercise on cognitive performance”

**Poster Numbers 75-78: Social Work 320 (Faculty Mentor: Dr. Teresa Reynolds and Dr. Ian Danielsen)**

- Arin Young, “The Effect of Natural Disasters on the Mental Health of Human Service Workers”

- Nathan Jay Everson Jr., “The parallels between domestic violence and parenting styles”

- Amanda Phillips, “Abuse and neglect of the vulnerable: the correlation between elder abuse and neglect living in low socio-economic status”

**Poster Numbers 79-80: Integrated Environmental Science 201 (Faculty Mentor: Dr. Ken Fortino)**

- Kirsten Gough, Hunter Ratliff, “The Effect of Structure on Fish Density”

- Braxton Harrup, Natalie McNeal, Adonel Grubb, “The effect of land use on tree density and size”



## **Posters: Biology, English, 3:00-4:00PM, Blackwell Ballroom**

### **Poster Numbers 1-36: Biology 400 (Faculty Mentor: Dr. Amorette Barber)**

- Mackenzie Tabler, "Determining treatment-related impacts of Perficitinib on Alopecia Areata"
- Alexander Line, "Over-Expression of Hrip1 and Hrip2 Protein Elicitors in Transgenic Oryza sativa Rice to Increase Tolerance to Drought Stress and Increase Resistance to Rice Blast"
- Brittney Beazley, "The Effects of Petroleum Pollution on Primate Health in the Amazon Rainforest"
- Praise Nyambiya, "The association of Macrophages recruitment and Angiogenesis in the development of Pancreatic Cancer"
- Micaela Wade, "The Effect of Velvet Ant Venom on the Growth of Cervical Cancer Tumors in Mice"
- Ashley Cake, "Improving the safety of GPC3-targeted CAR T cells using an iCasp9 safety switch"
- Kari Stokes, "The Use of CRISPR/Cas9 in Gene Therapy for Human Color Blindness"
- Cody Hyle, "Genetically Engineering Microalgae for Optimal Carbon Dioxide Uptake and Sequestration"
- Jeannie Davis, "An analysis of the effects of BPA on reproduction in Zebrafish"
- Marley Sodikoff, "Identifying the effectiveness of Omega-3/6 fatty acids in a diet when diagnosed with ADHD"
- Katlyn Myers, "Investigating expression of NKG2D ligands on tumor cells using CRISPR-Cas9"
- Quin Ford, "Response of ETV6-ABL Fusion and Treatment on Survival Rates in Acute Myeloid Leukemia and Monosomy 7"
- Max Flores, "Analysis of Phytoestrogen Classes and Their Effects on Metabolic Rate"
- Ansel Steele, "Mechanisms of Granule Cell Recovery in the Hippocampus following Lead Exposure"
- Devin Teachey, "Investigating the use of Human pluripotent stem cells in rhesus monkey neural tissue regeneration"
- Shane Crean, "Using Parasites as a Potential Treatment for Multiple Sclerosis"
- Harley Hodges, "Investigation into modified parabens and their effect on sulfotransferase activity"
- Cullen Williams, "Germicidal Efficiency of Far-Ultraviolet C Light Controlling Multidrug-Resistant Klebsiella Pneumoniae"
- Morgan E. Rollins, "Brain differentiation and nurturing characteristics as a result of hormone exposure"

- Deanna Di Silvio, “The Use of Tannins in Preventing the Growth of Pseudomonas aeruginosa on Tracheostomy Tubes”
- Owen Hartwig, “Gene Immunization Against Lethal Toxins in Mice”
- Kaylynn Batten, “The Long-Term Effects of the SLC6A14 modifier gene on Cystic Fibrosis patients”
- Judy May, “Comparing physical and demonstrated manipulatives: Identifying the best form of scientific laboratory experimentation for student's conceptual understanding”
- Bijan Epps, “Fertility over 35 with IVF and PGD”
- Hosam Abdelrahman, “Synthetic biodegradable polymers used as scaffold materials to regenerate cardiac muscle tissue”
- Stewart Beaumont, “Biodiversity Surrounding University Campuses”
- John Brumfield, “The Use of Thymosin Beta-4 as a Preventative Treatment Against Strokes”
- Paula Amburgey, “Pre-Clinical Confirmation of Vaginal Cream Containing Different Essential Oils in Women with Endometriosis”
- Kameron Fradette, “The effects of grain fed beef vs. grass fed beef in relation to cholesterol levels”
- Naomi Williamson, “Can anti-inflammatory drugs be used to treat schizophrenia in mouse models”
- Elizabeth Hayden, “What are the facts behind two Canine Influenza strains that produce such severe effects in an organism?”
- Katelyn Jones, “Determining a life-long treatment to HIV by using the “Shock and Kill” method”
- Ansel Steele, “Mechanisms of Granule Cell Recovery in the Hippocampus following Lead Exposure”
- Michael Pagliuca, “The Effects of Dimethyl Sulfide from Plastics on Marine Life”

**Poster Numbers 37- 74: English 209 (Faculty Mentor: Dr. David Magill)**

- Trent Lyles, “Addiction in An Alcoholic Case”
- Matthew Oliver, “Relationships within Are These Actual Miles”
- Lauren Phillips, “Impact of Societal Influences in How to Become a Writer”
- Daniel Legett Daly, “Racial Divide in Love for Blood-Soaked Moon”
- Amanda Topping, “Self-Perception in "A Late Encounter with the Enemy"”
- Victoria Cascio, “Relationship Issues in “The Storm””
- Kailyn Marshall, “Fear in “That Evening Sun””
- Aubrie Cundy, “Masculinity in “In a Far Country””
- Kacie Reusser, “Familial Responsibility Depicted in "The Shawl"”
- Sara Holdsworth, “Doctoral Malpractice in The Child Screams and Looks Back at You”
- Caroline Merryman, “Faith vs. Reality”

- Francesca Chambers, “Complicated Situations”
- Jacob Long, “The Trials of the Civil Rights Movement In "Where Is the Voice Coming From"”
- Chelsea Moore, “Relationship Complications In Hills Like White Elephants”
- Amanda Ruffle, “Responsibility in Rip Van Winkle”
- Graylin Dalton, “Family Legacy in "The Rats in the Walls"”
- Melinda Traylor, “Deception in "Under the Radar"”
- Christina Coate, “Violence in "Heat"”
- Micah Golemon-Mercer, “Weight of responsibility”
- Neil Feeney, “No more people”
- Sharde Graham, “Wife traveling with her sick husband "A Journey"”
- Hannah Berensen, “Institutional Virtue in Sherwood Anderson’s “The Strength of God””
- Hannah Bozarth, “The Issue of Understanding in "Hunters in the Snow"”
- Devon Tinius, “Dreams vs. Reality in The Wives of the Dead”
- Amelia Butterfield, “Family dynamics in "Today Will Be a Good Day"”
- Amber George, “The Yellow Wallpaper”
- Mary Pinkard, “Animal Rights in “Mercy””
- Arwyn Heppard, “Effects of Trauma in Cannibalism in the Cars”
- Lauren Ashworth, “The Mid Life Crisis of Francis Weed in "The Country Husband"”
- Ridge Christian, “The Man Who Was Almost a Man”
- Breanna Garrison, “A Look Into the Relationship Between A Father and His Son”
- Suzanne M. Stetson, “Justice and supernatural elements in The Ghost in the Mill”
- Miranda Carter, “Schizophrenia in The Tell-Tale Heart”
- Ginny Czeizinger, “Death in ‘The Reach’”
- Parker Ross, “Social and Economic Strife in Junot Diaz’s “Edison, New Jersey”

**Electronic Presentations: English 400 (Faculty Mentor: Dr. Elif Guler)**

- Juwairyah Gunter, Alan Creager, Brandie Zelaya, “Climate Change as a National Security Issue”
- Lindsay Hively, Abby Gargiulo, Megan Mansfield, “The Happiness Effect: Mental Health Advocates”



**Junior Show for Studio Art and Graphic and Animation Design Programs, 2:00PM-5:00PM, 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. We will also announce our scholarship recipients and the winners of the Greenwood Library Junior Art Award. Come by the Bedford Atrium from 2-5 pm to help us celebrate our students' achievements in Art and Design!

**Mathematics Colloquium, 4:00 – 5:20 P.M. Ruffner 356**

4:00 – 4:15: Longwood Mathematical Modeling Team (Nicole Marzolf, Daniel Millson, Heather Switzer)

4:20 – 5:20: Dr. Celestine Woodruff, Assistant Professor of Mathematics, James Madison University

**Digital Commons Workshops, 9:00 a.m. – 12:00 a.m. Martinelli Board Room**

Once students present their research, they (along with faculty) can see a demo of Digital Commons, Longwood University's digital repository and deposit their research on the same day they present.

Sponsored by The Office of Student Research and Greenwood Library





**Presentations: Stories from Prince Edward County, 1951-1968, 3:30PM-5:30PM,  
Robert Russa Moton Museum**

This exhibition in the Robert Russa Moton Museum features individuals who lived through the public school closing in Prince Edward County, Virginia, from 1959-1964. In collaboration with the museum, Longwood University students in an honors advanced writing seminar and a photography course partnered with these individuals to document their stories. These stories resonate with action and with movement – in stark contrast to how the history of this period has traditionally been told. We hope this exhibition encourages other individuals to share their stories. Through telling and listening, all of us can engage in dialogue about our past, our present, and our future together.

	<b>Writers- Honors English 400</b>	<b>Photographer- Art 254, Art 490</b>	<b>Story Teller</b>
1.	Torie Allen	James Conner	Rev. Vincent Eanes
2.	Casey Bainbridge	Melanie Vasquez	Richard “Dickie” Moss
3.	Jessica Smith	Steven Farkas	Danny Morton
4.	Hunter Purcell	Laurel Thoreson	James Jordan
5.	Tyler Chuba	Brea Fowlkes	Clara (Gibson) Johnson
6.	Murrie Grimes	Heather Green	Patsy (Cobbs) Franklin
7.	Amanda Holmes	Edith Austin	Ernestine “Tina” Harris
8.	Sarah Heath	Rachel Frank	Eunice (Ward) Carwile
9.	Zach Sergi	Katherine Wilson	Jimmy Hurt
10	Hanna Schenkelberg	Jacob Puterko	Ann (Frank) Simpson
11.	Teresa Fruchterman	Taylor O’Berry	Travis Harris
12	Hannah Auerbach	Halle Parker	Naja (Griffin) Johnson
13	Tevin Brown	Halle Parker	“Skip” Leslie Griffin
14.	Sarah Wright	Halle Parker	Cocheyse (Griffin) Epps



# Longwood University Directory

(Residence halls are at the end of the list.)

- Admissions Office (Lancaster Hall) .....13
- Athletic Department (Tibb Hall) ..... 3
- Barlow Hall .....25
- Registrar and Academic Advising
- Baseball Field (Buddy Bolding Stadium) ..... 44
- Bedford Hall .....36
- Art
- Bedford Auditorium
- Maugans Alumni Center .....11
- Alumni, Career Center
- Blackwell Hall, Prince Edward & Virginia Rooms
- Institutional Advancement
- Bristow Hall
- Physical Plant Operations/Material Mgmt. ....27
- Campus Bookstore/Barnes & Noble ..... 5
- Center for Communication Studies & Theatre .....49
- Chickester Science Center .....15
- Biology, Chemistry, Environmental Sciences & Physics
- Colonades ..... 7
- Communication Sciences & Disorders .....50
- Cornier Honors College .....51
- Coyner Hall .....22
- Crafts House .....3
- Future site of Upchurch University Center .....53

- Dorrill Dining Hall .....28
- Campus Police & Public Safety
- Information
- Financial Aid .....13
- First Avenue Field .....32
- French Hall .....6
- Information Technology
- Assessment & Instructional Research
- Graham Hall .....24
- Disability Support Services
- Parking
- Printing Services
- Granger Hall .....12
- English
- Modern Languages

- Greenwood Library .....34
- Academic Support Center
- Hardy House .....1
- Conferences
- Facility Scheduling
- Health & Fitness Center .....43
- Campus Recreation
- Counseling Center
- Student Health
- Hesting Plant .....23
- Hiner Hall .....21
- College of Business & Economics
- Hull Education Center .....37
- College of Education & Human Services
- Iler Hall .....29
- Environmental Health & Safety
- Jarman Hall .....14
- Jurman Auditorium
- Lancaster Hall .....13
- Administration & Finance
- Admissions Office
- Cashier/Student Accounts
- Human Resources
- Office of the President
- Public Relations
- Student Affairs
- Residential & Commuter Life
- Lancer Field .....46
- Lanford Student Union .....30
- Lancer Café
- Post Office

- Longwood Center for the Visual Arts (LCVA) .....4
- (Main & Third Streets)
- Longwood Estate .....47
- Athletic Fields
- Golf Course
- Longwood House
- Longwood Landings .....5
- Barnes & Noble Campus Bookstore
- Residence Hall
- Nursing .....19
- Registrar & Academic Advising .....25
- Ruffner Hall .....10
- Academic Affairs
- Cook-Cole College of Arts & Sciences
- History, Political Science & Philosophy
- Liberal Studies
- Mathematics & Computer Science
- Psychology
- Sociology, Anthropology & Criminal Justice
- College of Graduate & Professional Studies
- Small Business Development Center .....42
- Longwood University Real Estate Foundation
- Softball Field .....45
- Stevens/McCortle/Jeffers Hall .....19
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- International Affairs
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- Varsity Tennis Courts .....39
- Visitor Parking
- Crafts Lot .....48
- Parking Garage - Redford Street .....38
- Willet Hall .....52
- Lancer Gymnasium & Pool
- Health, Athletic Training, Recreation & Kinesiology (Temporary Location) .....35
- Wyzel Hall
- Music
- Molnar Recital Hall

### On-Campus Residence Halls

- ARC Residence Hall .....33
- Cox Residence Hall .....18
- Curry Residence Hall .....40
- Fazer Residence Hall .....41
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- Stubbs Residence Hall .....31
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### Off-Campus Apartment Communities

- Lancer Park .....(off-map: Grace St.)
- Longwood Landings .....5
- Longwood Village .....(off-map: Clark St.)



Revised 11/15