



# PRESBYTERIAN COLLEGE

*college of arts and sciences | school of pharmacy | school of health professions*

## HONORS DAY SYMPOSIUM

2026



# Honors Day Program on April 9, 2026

*\*Panel numbers are not indicative of chronological order*

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## **Panel 1: Data Analytics**

**8:30am-9:45am Chapman Center**

**Moderator: Dr. Rachel Childers**

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*Short-Term Electricity Demand Forecasting at the Substation Level*

15-minute Capstone Presentation

Presenter: Cade Lewis (starts at 8:30 am)

*Do consumers in developed and developing countries exhibit different spending adjustment patterns during periods of inflation?*

15-minute Capstone Presentation

Presenter: Eaint Kyal Syn Lynn (starts at 8:45 am)

*Turnover Margin and Offensive Performance: An Analysis of the Cincinnati Bengals (2021–2024)*

15-minute Capstone Presentation

Presenter: Alexis Morgan Fornshell (starts at 9:00 am)

*Forecasting Financial Markets: A Comparative Study of Machine Learning and Statistical Models*

15-minute Capstone Presentation

Presenter: Denim Yadav (starts at 9:15 am)

*The Power of Home Turf: A Data-Driven Study of Home Advantage in the Premier League*

15-minute Capstone Presentation

Presenter: Lina Mueller (starts at 9:30 am)

## **Panel 2: Biology - Molecular and Multi-Omics Insights into Breast Cancer**

**8:30am-10:00am in Richardson 116**

**Moderator: Dr. Austin Shull**

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*Comparing Breast Cancer Subtypes in African American and European American Patients Using TCGA*

30-minute Departmental Honors Presentation

Presenter: Natalie Anne Paxton (starts at 8:30am)

*Multiomics of Triple Negative Breast Cancer*

30-minute Departmental Honors Presentation

Presenter: Margaret Victoria Leonard (starts at 9:00am)

*Histone H3K14 Acetylation in EMT-Driven Breast Cancer Progression*

30-minute Departmental Honors Presentation

Presenter: Ella Grace Williams (starts at 9:30am)

## **Panel 3: Physics - Engineering Design and Sustainable Infrastructure**

**9:00am-10:55pm in Neville 122**

**Moderators: Dr. Frances Cashman and Dr. Eli Owens**

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*Clinton Hall: A Comprehensive Interior Renovation*

15-minute Presentation

Presenter: Keith Phillip Elmore (starts at 9:00am)

*Renovation and Modernization of One Presbyterian College's Oldest Residence Hall*

15-minute Presentation

Presenter: Lawton Anthony Cox (starts at 9:15am)

*Powering Bailey Memorial Stadium and Practice Fields Using Dual-Axis Solar Tracking Photovoltaic Systems*

15-minute Presentation

Presenter: Mackenzie Aaron Mikko (starts at 9:30am)

10-min break

*Nuclearization of Indiana's Electric Grid*

15-minute Presentation

Presenter: Joshua James Martin Henderson (starts at 9:55am)

*Reducing Nuclear Waste Through Advanced Fuel Cycles*

15-minute Presentation

Presenter: Ryan Patrick-Edward Sullivan (starts at 10:10am)

*Characterizing Complex M: A High-Velocity Cloud in the Milky Way Halo*

30-minute Departmental Honors Presentation

Presenter: Constantine Alexander Gandis (starts at 10:25am)

## **Panel 4: Computer Science - Technology-Enhanced Learning with HBot**

**9:00am-11:15am HP 209**

**Moderator: Dr. Olivia Nche**

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*Using Wildlife Wonder to Teach About Lesser-Known Animals*

15-minute Presentation

Presenter: Harryson Jacob Rogers Lott (starts at 9am)

*Using HBot to Teach French Cuisine*

15-minute Presentation

Presenter: Morvens Saint Jean (starts at 9:15am)

*Using HBot to Teach the Alphabet*

15-minute Presentation

Presenter: Marcel Jamari Wood (starts at 9:30am)

15-minute break

*Using HBot to Teach Types and Operators*  
15-minute Presentation  
Presenter: Eaint Kyal Syn Lynn (starts at 10am)

*Using HBot to Teach Loops*  
15-minute Presentation  
Presenter: Carlos Gabriel Mercado Jimenez (starts at 10:15am)

15-minute break

*Using HBot to Teach Security Concepts*  
15-minute Presentation  
Presenters: Denim Yadav and Chale Yvette Mccalpin (starts at 10:45am)

*How AI Affects Education*  
15-minute Presentation  
Presenter: Liliana Weathers (starts at 11am)

## **Panel 5: Political Science**

### **9:00am-9:30am HP Amphitheater**

**Moderator: Dr. Ben Bailey**

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*How Do Pro-Israel Lobbying Organizations Influence U.S. Electoral Outcomes and Policy Decisions through Campaign Contributions and Lobbying Expenditures?*  
30-minute Departmental Honors Presentation  
Presenter: George Robert Hopkins (starts at 9am)

## **Panel 6: English**

### **9:00am-11:40am in Neville 121**

**Moderator: Dr. Lynne Simpson**

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*The Art of the Female Gothic*  
30-minute Honors Presentation  
Presenter: Rebekah Archer (starts at 9am)

*Austen's Emma: Practically Perfect - Mr. Knightley and the Misterys Wrong*  
20-minute Capstone Presentation  
Presenter: Isabel Lasota, (starts at 9:30am)

*The Cage of Filial Love*  
15-minute Presentation  
Presenter: Madelyn Wilkie (starts at 10am)

*A Forbidden, Forgotten Courtship*  
15-minute Presentation  
Presenter: Lauren Hobson (starts at 10:20am)

20-minute break

*Emma Woodhouse: Early Feminist Icon?*  
15-minute Presentation  
Presenter: Cree Augustine (starts at 11:00am)

*Marriage in Emma*  
15-minute Presentation  
Presenter: Maggie Shavo (starts at 11:20am)

## **Panel 7: History**

**9:30am-3:00pm in Neville 102 Kuhne Auditorium**

**Moderator: Dr. Rick Heiser**

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*The Role of Propaganda in Shaping Public Perception of the Crusades*  
30-minute Departmental Capstone Presentation  
Presenter: Cree Augustine (starts at 9:30am)

*Religion's Role in the Crusader's Life*  
30-minute Departmental Capstone Presentation  
Presenter: Brian William Coyle (starts at 10:00am)

*The Effects on Public Perception toward the Sixth Crusade Due to Frederick II's Status as an Excommunicant*  
30-minute Departmental Capstone Presentation  
Presenter: Grace Elizabeth Culbreath (starts at 10:30am)

*The Effects of the Crusades on the Political Middle East from 1095 to the Career of Saladin*  
30-minute Departmental Capstone Presentation  
Presenter: Hannah Lee Hamilton (starts at 11:00am)

PAT Lunch (11:30-1:30pm)

*Seeing Saladin through Arabic and Latin Eyes*  
30-minute Departmental Capstone Presentation  
Presenter: Austin Skoog (starts at 1:30pm)

*Crusader Motivations*  
30-minute Departmental Capstone Presentation  
Presenter: Carter Szydowski (starts at 2pm)

*Building an Empire: United Fruit Company's Habitual Influence Over Politics, Infrastructure, and Labor in Panama and Costa Rica, 1910s-1950s*  
30-minute Departmental Honors Presentation  
Presenter: Madelyn Lauren Wilkie (starts at 2:30pm)  
Supervisor: Dr. Jackie Sumner

## **Panel 8: Education Capstone Presentations**

**9:30-10:00am HP Amphitheater**

**Moderator: Dr. Julia Wilkins**

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*Teacher Perceptions of How COVID-19 Affected Student Literacy Development*

15-Minute Presentation

Presenter: Kacie Lynn Tharin (starts at 9:30 am)

*Parental Involvement in Children's Early Learning*

15-minute Capstone Presentation

Presenter: Victoria Elizabeth Smith (starts at 9:45 am)

## **Panel 9: Economics and Business Administration**

**10:00am-11:45am Chapman Center**

**Moderator: Dr. Rachel Childers**

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*Revenue Sharing: Mid-major Schools*

15-minute Capstone Presentation

Presenter: Emma Claire Mills (starts at 10:00 am)

*An Analysis of Life Expectancy Trends in Developed and Developing Countries*

15-minute Capstone Presentation

Presenter: Yadav Denim (starts at 10:15 am)

*ROI between Universities and Libraries Colleges*

15-minute Capstone Presentation

Presenter: Ryan W. Luna (starts at 10:30 am)

*Patient-Centered Ethics in the Pharmaceutical Industry*

30-minute Honors Presentation

Presenter: Blair Elizabeth Darby (starts at 10:45 am)

*Fraud Analysis of The Holy See*

30-minute Honors Presentation

Presenter: Peter Edmond Lipscombe (starts at 11:15 am)

## **Panel 10: Education, Business, Public Health, Occupational Therapy Posters**

**10:00-11:00am HP Lobby**

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*Academic Benefits of Game-Based Apps for Elementary Students*

Education Poster Presenter: Alexandra Polinario

*Teachers' Perspectives of Assistive Technology Use for Students with Dyslexia*

Education Poster Presenter: Caroline Emily Murphy

*Revenue, Debt, and Wins: An Analysis of Financial Impact on MLB Team Success*

Business Poster Presenter: Ashley Elizabeth McAtee

*Examining Health Equity in the World Health Organization's Global Influenza Surveillance System*

Public Health Program Poster Presenters: Yasmeen Rasasi, Niy'Asha Myers, Andrew Hayes

*A Preventative Approach for Geriatric Healthcare in Occupational Therapy*

Occupational Therapy Doctoral Program Poster Presenter: Grace Danielle Durham

*Occupational Deprivation in the Correctional System: How Occupational Therapists Can Support Through Rehabilitation*

Occupational Therapy Doctoral Program Poster Presenter: Ivy Brooke Veneziano

## **Panel 11: Biology - Microbial Genomics and Computational Biology**

**10:10am-12:10pm in Richardson 116**

**Moderator: Dr. Stuart Gordon**

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*The Effects of Salinity on the Gut Microbiome of Mummichog (*Fundulus heteroclitus*)*

30-minute Departmental Honors Presentation

Presenter: Reece Maclain Bradberry (starts at 10:10am)

*Comparative Metagenomic Profiling of Killifish Gut Microbiome Using Illumina and Oxford Nanopore Sequencing Across Salinity Gradients*

30-minute Departmental Honors Presentation

Presenter: Elyse Isabella Hutchinson (starts at 10:40am)

*Characterization of Mutation in *Acidovorax avenae**

30-minute Departmental Honors Presentation

Presenter: Maggie Elizabeth Jones (starts at 11:10am)

*A Study of the Effect of the N185D Mutation in NPC1 on Cholesterol Transport, and the Development of a New Algorithm (OrthoNet): a Self-Correcting Graph Algorithm to Select Orthologous Sequences from a List of Homologs to Improve the Prediction of Mutation Pathogenicity*

30-minute Departmental Honors Presentation

Presenter: Bethany Elaine McManus (starts at 11:40am)

## **Panel 12: Psychology Departmental Honors Presentation**

**10:30-11:00am HP Amphitheater**

**Moderator: Dr. Sarah Burns**

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*Measuring Stress Due to Recently Changing Reproductive Policies in the United States*

30-Minute Departmental Honors Presentation

Presenter: Hallie Ann Cohen (starts at 10:30am)

## **Panel 13: Physics - Advanced Materials and Engineering Innovation**

**11:05am-11:35am in Neville 122**

**Moderator: Dr. Clay Wright**

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*Development of an Electrochemical Cell for Studying the Nucleation and Growth of Metals on 2D Materials using In Situ Optical Microscopy*

15-minute Presentation

Presenter: Jaden Johani Garrett Holder (starts at 11:05am)

*A Soft Robotic, Prosthetic Gripper Utilizing Magneto-Granular Materials*

15-minute Presentation

Presenter: Hunter Drake Satterfield (starts at 11:20am)

## **Panel 14: Biology, Chemistry, Biochemistry, Physics Poster Presentation**

**11:35am-1:00pm in front of Richardson 116**

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*Transforming Smartphones into High Resolution Microscopic Tools*

Presenter: Phillip Rankin Byrd

*A Biomechanical Analysis of the Human Punch*

Presenters: Ayden Wayne Rudder, Gage Eugene Hatcher

*Physiological Effects of Depressants and Stimulants on the Developing Chick Heart*

Presenters: Oayton Brook Duncan, Gracie Elizabeth DeCuir

*The Effect of Estrogen on Tendons and Ligaments*

Presenter: Lindsey Marie Malyszek

*The Effects of Testosterone on Tendon and Ligament Histology*

Presenter: Jasper Alonzo Powell

*Structure-CO release rate relationship of ROS-activated carbon monoxide donors for targeted delivery*

Presenter: Antonio Alexander Davis

*Molecular Dynamics Simulation of a Putative Transmembrane Anti-Sigma Factor from Paracidovorax Avenae ATCC 19860*

Presenter: Jennifer Godinez Perez

*Crystallographic Control of Au Nanoparticles Electrodeposited on 2D Materials for Detection of Ascorbic Acid and Dopamine*

Presenter: Christopher Gallegos

*Tardigrades or "Water Bears" as Potential Environmental pH Indicators*

Presenter: Morgan Isabella Perez

## **Panel 15: Outstanding Internships**

### **12:00pm-1:00pm in Neville Rotunda**

**Moderator: Ms. Lynn Downie**

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#### *IEP Development Intern*

Presenter: Taylor (Reesie) Beckner

#### *Tax Accounting Intern*

Presenter: Emma Erwin

#### *Clinical Therapy Intern*

Presenter: Shymia Hardy

#### *Customer Service Process Improvement Intern*

Presenter: Eaint Kyal Syn Lynn

#### *Organizational History Research Intern*

Presenter: Stacy Puckett

#### *Marketing Intern*

Presenter: Isis Trapp

## **Panel 16: Biology - Structural and Regenerative Biology**

### **1:00-pm-2:15pm in Richardson 116**

**Moderator: Dr. Jim Wetzel**

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#### *Glenohumeral Joint Biomechanics*

15-minute Departmental Presentation

Presenter: Anna Corena Ruiz (starts at 1:00pm)

#### *Osteogenesis of Horn and Antler*

30-minute Honors Departmental Presentation

Presenter: Annabeth Katherine Adams (starts at 1:15pm)

#### *Nerve-Induced Regeneration in Lumbriculus variegatus and Dugesia dorotocephala*

30-minute Departmental Honors Presentation

Presenter: Shelley Christine Ricks (starts at 1:45pm)

## **Panel 17: Chemistry - Chemical and Biophysical Characterization of Materials**

### **1:00pm-3:05pm in Neville 122**

**Moderators: Dr. Kimberly De La Cruz, Dr. Latha Gearheart**

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#### *Model System for Phase Changes*

30-minute Departmental Honors Presentation

Presenter: Veby Nagi Youssef (starts at 1:00pm)

*Surfaced-Enhanced Raman Spectroscopy (SERS) of Rhodamine B on Gold Nanoparticles*

30-minute Departmental Honors Presentation

Presenter: Autumn Devadney Channer (starts at 1:30pm)

*Displacement-Based and De Novo Construction Approaches for Fluorescent Carbon Monoxide Detection and Monitoring*

30-minute Departmental Honors Presentation

Presenter: Lasha A Facey (starts at 2:05pm)

*Residue-Level Contribution of Elastin and Collagen in the Vocal Folds*

30-minute Departmental Honors Presentation

Presenter: Riley McKenna Deadwyler (starts at 2:35pm)

## **Panel 18: Economics and Business Administration Honors Presentations**

**1:30pm-2:30pm Chapman Center**

**Moderator: Dr. Rachel Childers**

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*Economic Impact of Presbyterian College on Laurens County*

30-minute Departmental Honors Presentation

Presenter: Emma Lewis Erwin (starts at 1:30pm)

*The Contract Effect: Why NHL Players Perform Differently When Money Is on the Line*

30-minute Departmental Honors Presentation

Presenter: Vanessa Palisin (starts at 2:00pm)

## **Panel 19: Spanish and Religion**

**2:00pm-3:00pm in Neville 322**

**Moderator: Dr. Sharon Knight**

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*Cultural and Linguistic Fusion in al-Andalus: An Interdisciplinary Study of the Muwashshah and Jarcha*

30-minute Departmental Honors Presentation

Presenter: Lydia Usama Awadalla (starts at 2pm)

*Heridas que Enseñan: Cómo el Pok-a-tok Moldeó la Medicina Maya*

15-minute Presentation

Presenter: Brooklyn Shepard-Wheelon (starts at 2:30pm)

*The Spoke in the Wheel: Lessons from Bonhoeffer*

15-minute Presentation

Presenter: Jonathan Warner Bush (starts at 2:45pm)

## **Panel 20: English/Creative Writing**

**2:00pm-3:00pm in Neville 121**

**Moderator: Professor Robert Stutts**

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*Creative Writing: Senior Portfolio*

15-minute Presentation

Presenter: Lauren Hobson (starts at 2:00pm)

*Creative Writing: Senior Portfolio*

15-minute Presentation

Presenter: Matthew Thomas Nelson (starts at 2:15pm)

*Creative Writing: Senior Portfolio*

15-minute Presentation

Presenter: Eris Wilson (starts at 2:30pm)

*Creative Writing: Senior Portfolio*

15-minute Presentation

Presenter: Annabeth Katherine Adams (starts at 2:45pm)

## **Panel 21: Biology - Ecosystems Past and Present**

**2:30pm-3:15pm in Richardson 116**

**Moderator: Dr. Sabrina Moore**

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*Microhabitat Effects on Biodiversity in the Clinch River*

15-minute Departmental Presentation

Presenter: Gigi Marton Kannenberg (starts at 2:30pm)

*A Study of the Paleopalynology of the Atokan-Desmoinesian Boundary at the Roaring Creek Locality, Parke County, Indiana*

30-minute Honors Departmental Presentation

Presenter: Hallie Ann Cohen (starts at 2:45pm)

## **Honors Day Convocation**

**5:00pm in Belk Auditorium**

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# Thank You!

## *A FINAL THANK YOU TO:*

### **Organizer**

Dr. Stefan Wiecki

### **Divisional Coordinators**

Dr. Kirk Nolan (Humanities)

Dr. Sarah Burns (Social Sciences)

Dr. Margo Petukh (Natural Sciences)

Dr. Katherine Hanlon (Pharmacy)

### **Abstract Book Editor**

Dr. Katherine Hanlon

### **Honors Day Website, Graphic Design, and Video**

Ms. Emily Owens

Ms. Katie Perkins

Ms. Dana Simmons

Mr. Hal Milam

Mr. Doug Wallace

Mr. Alex Windsor