

THANK YOU

Piedmont University would like to thank the following faculty, staff, and students who have helped make Symposium a success.

Dr. Julia Schmitz
Dr. Elaine Bailey
Dr. Windy Charles
Dr. Lisa Mann
Prof. Tricia Shriver
Dr. Jeb Stacy
Dr. Tina Smith
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Prof. Naomi Woodbury
Dawn Arrowood
Dana Davis
Jessica Eanes
Zack Hoopaugh
Grace Wills
Cat Wiles
Sheri Allen
Mitzi Heck
Maintenance
I.T. Department

We would also like to thank the 100 faculty, staff, and students who are volunteering throughout the day. Without them, this day would not be possible!

We gratefully appreciate the leadership and support from:

President Marshall Criser
Vice President Vickie Turner







THURSDAY, APRIL 9, 2026


9:00 AM - 5:00 PM

For more information, visit
piedmont.edu/symposium

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PIEDMONT SYMPOSIUM | APRIL 9, 2026

	Session 1 9:00 - 10:00	Session 2 10:10 - 11:10	Session 3 11:20 - 12:20	Session 4 12:30-1:30	Session 5 1:40-2:40	Session 6 2:50-3:50	Session 7 4:00-5:00
Stewart Auditorium	<p>#112 Tangles and Knots Katherine Prowell</p> <p>#141 How the Cartesian Product of 2-spheres Deviates from Conformal Flatness Peter Gardner</p> <p>#151 Steel Bar Joist Destruction Test Ansley Phillips</p> <p>#191 Proving Nondefectivity of Spinor Varieties Jared Parks</p>	<p>#15 Comparative Study of Oral Bacterial Reduction by Various Teeth Cleaning Methods Taylor Crawford</p> <p>#192 HIV/AIDS Disparities in Marginalized Communities: Ethics, Access, and Public Health Implications Riley Robinson</p>	<p>#214 Impacts of Sea Ice Decline on Polar Bear (<i>Ursus maritimus</i>) Distribution in Alaska Under Arctic Warming Houyu Li, Khyiah Tate, Melissa Eller</p> <p>#213 Global Data, Unequal Representation: Structural Bias in <i>Toxoplasma gondii</i> Occurrence and Sequencing Records Chaewon Jin, Karen Sanchez, Riley Robinson</p> <p>#145 From Cell to Stage: Reimagining the Pathway to Reentry Through the Arts Mackenzie Cain</p>	<p>#122 The Role of School Social Workers in Reducing the School-to-Prison Pipeline: A Focus on Mental Health Interventions for At-Risk Youth Valerie Romero</p> <p>#170 Looking at Criminological Theories to Explain Serial Killers: A Deep Dive into Dennis Rader Isabella Chapman</p>	<p>#163 The Financial Impact of Relegation on Premier League Clubs in the 2022/23 Season Dexter Cahill, Isaac Harrington, Luke Borgmann, Sebastian Rojas</p> <p>#166 The Legalization of Sports Gambling in the NBA Chase Goddard, Dylan Patrick, Nathaniel Prewett</p> <p>#168 Player Payroll and Performance: Comparing High and Low Spending MLB Teams Bella Caccamo, Hayley Borino, Madysin Spieks</p> <p>#207 The Economics of NIL Rules in College Sports Adam Rogers, Davis Knight, Matthew Dupuis, Philip Nowak</p>	<p>#43 Algorithmic Aesthetics: Artificial Intelligence (AI), Artistic Value, and the Ethics of Ease Pedro Ruiz</p> <p>#113 Philosophy Through Storytelling and its Impact on Pop Culture Robert Scott</p> <p>#186 The Exploration of Evaluation and its Impact on Self-Perception Emma Hamilton</p>	<p>#189 Better Bins, Better Wins: A Fun Way to Boost Recycling Blessed Mutebi</p> <p>#162 Piedmont Pooches Pt. 2 Ivannaleea Jones</p>
Swanson Screening Room 128	<p>#110 Alcohol and Cognition Capstone Proposal Madison Allen</p> <p>#118 The Difficulty in Waiting Janya Brown</p> <p>#123 Social Media & Self-Esteem Ava Brookshire</p>	<p>#171 Equine-Assisted Therapies: Foundation, Evidence, and Future Directions Isabella Chapman</p> <p>#187 Facilitator Presence's Effect on Challenge Accepting Behavior Dakota Cannon</p>	<p>#205 Motivation Systems and Social Systems in a College Population Isabella Chapman</p> <p>#179 Perception of Adults with Autism Spectrum Disorder Amongst Piedmont University Students: A Descriptive Study Ans Robinson</p>	<p>#155 Dogs' Influence on College Students Ivannaleea Jones</p> <p>#127 The Audience Effect: How Will the Different Perspectives of an Observer Affect the Observed? Merveille Waller</p> <p>#164 The Relationship of Optimism, Pessimism, and Academic Stress Between Freshmen and Senior College Students Delyna Fuller</p> <p>#125 How Does the Presence of Cell Phones Influence Proactive Interference in Memory Retention? Chesney Seagraves</p>	<p>#165 Anxiety in RAs vs Traditional College Students Henry Avila</p> <p>#167 The Effects of Sleep on Athletes' Reaction Time Silas Goolsby</p> <p>#165 Is AI Overview Your Personalized Yes-Man? A Deep Dive Into How We Ask Questions and if the Results are Just What We Want to Hear August Gotter</p> <p>#195 The Effect of Cognitive Load on Memory Ralee Davidson</p> <p>#111 Burnout and Interoception in Team Versus Individual Athletes Katherine Prowell</p> <p>#204 Immediate Stress Reduction in University Students: The Combined Effects of Music and Nature Sarah Bunker</p>		<p>#133 Red Carpet Magic Alexander Chavez Ramos, Brody Geckler, Christopher Belin, Carmen Hickman, John Westbrook, Lauren Cates, Ryleigh Fox, Rance Wingo, Tommie Sirmans, Ivana Gonzalez Lima, Adriana Blumer, Gracie Phillips, Erin Donovan, Bailee Nolan, Jaily Green, Jason Loucks, Nate Courtwright, Tate Claudio, Zane Meyer, Jaden Gray</p>
Art Museum		<p>#19 Cultural Anxieties and the Medieval Monster Keyuna Peebles</p> <p>#91 From Slush Pile to Publication: On Editing <i>COMP: an interdisciplinary journal</i> Christina Aleman, Malachi Fleming, Megan Zimmerman</p> <p>#174 How to Write a Poem: One Poet Explains Madison Allen</p>	<p>#20 The Future is Monstrous Anya Bauer, Laia Solsona-Holmes, Chaewon Jin</p> <p>#120 Pierced Perfection: Celadon Craftsmanship in Ming China Emily Serrano</p>	<p>#34 Art Capstone Arly Lerma, Jassel Lara-Suarez, Jessica Ruiz, Maria Davis, Pedro Ruiz</p> <p>#135 The Art Education Experience Abigail Carver, Carley Fitzpatrick, Deana Adams, Kolton Gant</p>	<p>#130 Stereoscopic Immersion Inversion (SSII) Baden Stewart, Jonathan Garver, Luiz Rodriguez, Rohan Kavali</p> <p>#188 Designing for Science: An Ergonomic Seating Solution for the Microbiology Lab Camryn Oddo</p> <p>#208 Mobile Weather Device Alexander Pangelinan</p>		

	Session 1 9:00 - 10:00	Session 2 10:10 - 11:10	Session 3 11:20 - 12:20	Session 4 12:30-1:30	12:30-2:30	
Commons Conference	<p>#136 Identify, Adapt, & Shift: A Reimagined Model for Gifted Education Erika Mascheck</p>	<p>#21 The Relationship Between Flat Feet and Knee Issues Tynajah Eades</p> <p>#22 The Effect of Concussion on Reaction Time Phillip Bell</p> <p>#26 How Does Hip Mobility Affect Throwing Velocity in Baseball? Jackson Randolph</p> <p>#27 Impact of Hydration on Athletic Performance and Recovery Patience Brown</p>	<p>#31 Power Generation in Different Track and Field Event Groups Ileynaret Brooks</p> <p>#33 Hand Grip Strength Lyndzi Partlow</p> <p>#37 The Impact of a Female Athlete's Menstrual Cycle on Sports Performance Kailyn Thomas</p> <p>#39 The Role of Sleep in Athletic Performance Kasey Westmoreland</p> <p>#102 The Effect of Sport-Related Concussions on Anxiety and Depression Charles Carswell</p>	<p>#6 Burnout in D3 College Athletics Bella Caccamo</p> <p>#13 Testing Significant Correlation Between Gender Bias and Treatment of Women in the Sphere of Women's Reproductive Health Spencer Davis</p> <p>#1 Mental Health and its Effects on the Digestive Tract Ava Hunter</p> <p>#2 From Posts to Plates: Social Media's Role in Student Nutrition Mya Collins</p>	Swanson Newsroom	<p>#134 Photo Booth Alexandria Watkins, Brody Geckler, Bailee Nolan, Damyon Taylor, Erin Donovan, Ivana Gonzalez Lima, Jaden Gray, Jaily Green, Jason Loucks, Manson Isaiah Jones, Tommie Sirmans, Zane Brookshire</p>
Daniel 309-310	<p>#9 Targeted Temperature Management in Post-Cardiac Arrest Patients Kristin Greenway</p> <p>#12 The Impact of Breastmilk vs Formula Feeding in NICU Infants with CHD Maria Rosado</p> <p>#17 Unmasking the Silent Killer: Hypertension Control Among African American Adults ShaQuoia Lockett</p> <p>#153 Feel the Beat: The Effects of Music Therapy on Pain Management in Pediatric Leukemia Patients Annalee Keys</p>	<p>#76 An Alternative Treatment for Depression in Young Adults Zoey Coelho</p> <p>#78 Do Non-Stimulant or Stimulant Medications Work Better to Reduce the ADHD Sparkle? Hannah Franks</p> <p>#124 Ultrasound-Guided vs. Blind Fat Injection in BBL: Which is Safer? Aisha Anderson</p> <p>#132 Midwife-Led Care in Pregnancy: Is it More Effective? Aubrey Garrett</p>	<p>#139 Effectiveness of Early Warning Scoring Systems in Identifying Patient Deterioration and Preventing Unplanned ICU Transfers Nicholas Griffin</p> <p>#154 Maternal Mortality in the United States: A Hidden Crisis Joselline Molina-Chavez</p> <p>#231 Mental Health of Postpartum Patients Kasey White</p> <p>#24 The Link Between Artificial Colors and ADHD Camille Bissainthe</p>	<h2>Liongram Symposium 2026</h2> 		
Daniel 311-312	<p>#4 Chronic Migraine Interventions for Female Patients Guadalupe Rodriguez</p> <p>#5 Smoking vs. Vaping on Hemodynamics Rylie Erickson</p> <p>#7 The Power of Presence in Labor: How Support Influences Birth Outcomes Kelsey Banks</p> <p>#8 Maternal Deaths Due to Postpartum Hemorrhages: Does Education Matter? Amy White</p>	<p>#10 The Relationship Between PTSD and Opioid Use Disorder in Adult Patients Haley Moss</p> <p>#11 Evaluating the Effectiveness of Nurse-Led Weaning Protocols on Mechanical Ventilation Duration and Weaning Success in Adult ICU Patients Malina Rawlins</p> <p>#36 The Impact of Nurse-Led Rehabilitation on Functional Recovery and Quality of Life in Adults After Stroke Chloe Chandler</p> <p>#73 Postpartum Depression Brooklyn Begley</p>	<p>#74 The Impact of Regulation on Quality Care in Assisted Living Facilities Esperanza Zinna</p> <p>#75 The Importance of Cervical Cancer Education and Screening in Women of Childbearing Age Skylar Seeber</p> <p>#77 Preventing Hospital-Acquired Delirium in Older Adults: Evaluating Multicomponent Non-Pharmacologic Interventions Lindi Hoersten</p> <p>#109 Reducing Black Infant Mortality Through Culturally Competent and Bias-Aware Prenatal and Postnatal Nursing Care Clarina Davis</p>			

Session 1: 9:00 AM - 10:30 AM

Student(s)	Title	#	Location	Sponsor
Mark Backeberg and Dylan Hood	Intuit Quickbooks	209	A1.1	Kim Lovell
Amanda Allenbach and Emma Burke	Xero	233	A2.1	Kim Lovell
Savannah Walker and Lyla Loughney-Bonugli	Epic Systems	235	A3.1	Kim Lovell
Logan Harris	Visual Studio Code	234	A4.1	Kim Lovell
Benjamin Bodoh, Noah Goodman, and Robert Phillips	Advanced Balls and Strikes System (ABS)	236	A5.1	Kim Lovell
Davis Knight	Day n Knight Pottery (Analysis)	203	A6.1	Chris Kelly
Julia Lanneau	How Mental Fatigue Affects Offensive vs. Defensive Players	184	A7.1	Michael Friedline
Ans Robinson	Autistic Adults: How Does Autism Present Past Childhood?	173	A8.1	Michael Friedline
Alison Witkiewicz	Auditory Processing Disorder	230	B1.1	Tes Reilly
Genie Robbins	Expressive Arts Therapy for PTSD Treatment in Indigenous Populations	216	B2.1	Mindie Blackshear-Turner
Kaedy Land	Dyslexia	215	B3.1	Tricia Shriver
Zoi Walker and Kayle Buss	Cultural Responsiveness in Children's Literature	210	B4.1	Tricia Shriver
Hope Shirah	How Dance Affects Body Image in Young Adult Females	201	B5.1	Michael Friedline
Keagan Kelter	Are Emotions Universal: Constructed Not Hardwired	115	B6.1	Michael Friedline
Taite Ranker	Contemporary Law and Ethical Theories	35	B7.1	Lauren Bryant
Avarie Easters	Correlation Between Velocity-Based Jumps and Overhand Throwing Velocity in Baseball Pitchers	148	B8.1	Kristin Whitlock
Benjamin Homansky, Jack Racine and Kaitlyn Mulligan	The Inflation Gap: Why Recent Graduates Should Take Notice	196	B9.1	Kris McWhite
Addison Banks	Chorioamnionitis	182	C2.1	Julia Schmitz
Shelby Armentrout	The History and Pathology of HIV/AIDS	121	C3.1	Julia Schmitz
Juliana Corradino	Pneumonia	144	C4.1	Julia Schmitz
Brandon Philpot	Influenza	177	C5.1	Julia Schmitz
Deziur Wilson	HFMD: Know it, Spot it, Stop it	181	C6.1	Julia Schmitz

Session 2: 12:30 PM - 2:00 PM

Student(s)	Title	#	Location	Sponsor
Emma Scroggs	Early Life Social Environments Effects on Brain Morphology	18	A1.2	Jennifer Fortunato
Clara Welch	Does Apple Cider Vinegar Have an Effect on Streptococcus Bacteria?	25	A2.2	Julia Schmitz
Kayla Ward	Evaluating The Effectiveness of Cleaning Techniques in High-Traffic Areas Using Biochemical Tests	107	A3.2	Julia Schmitz
Riley Robinson	Assay of Basal Levels of Male Aggression Among Sister Taxa <i>Drosophila subquinaria</i>	193	A4.2	Andrew Duitsman
Riley Robinson	Stress-Related Changes in Social Navigation Behavior in <i>Drosophila melanogaster</i>	194	A5.2	Andrew Duitsman
Houyu Li	Analysis of Heavy Metal Concentrations in Dark Chocolate Using Standard Addition and Atomic Absorption Spectrometry	198	A6.2	Areatha Ketch
Rachael Pastman	Developing a Smartphone-Based Colorimetric Assay for Environmental Toxins Using Superabsorbent Beads	104	A7.2	Elaine Bailey
Isabella Reulbach	Side-Chain Engineering of Penicillin: Evaluating Four Acyl Derivatives Across Two Bacterial Species	103	A8.2	Elaine Bailey
Alexia Vaca-Nava and Ja'Nia Gray	Does Interspecific Competition Influence Habitat Segregation between Larval Salamanders (<i>Desmognathus amphileucus</i> and <i>Pseudotriton ruber</i>) in Appalachian Streams?	28	A10.2	Carlos Camp
Ja'Nia Gray and Alexia Vaca-Nava	Habitat Segregation Between the Larvae of Two Plethodontid Salamander Species in Appalachian Streams	29	A11.2	Carlos Camp
Elijah Marshall	Using Common-garden Experiments to Test the Effects of Infection by the Trematode <i>Metagonimoides oregonensis</i> on Larval Plethodontid Salamanders (<i>Desmognathus amphileucus</i>) in Appalachian Streams	30	B1.2	Carlos Camp
Leah Holtzclaw	Investigating the Geographic Range of <i>Trichonophila clavata</i> and the Bioclimatic Variables that Influence it between Native and Nonnative Populations	108	B2.2	Rebecca Godwin
Savannah Limehouse	Male Aggression Contributions to Reinforcement and Speciation in <i>Drosophila-Subquinaria</i> Species Complex	126	B3.2	Andrew Duitsman
Nicholas Yelle	Effect of Virgin Females on Male Competition under Reinforcement in the <i>Drosophila-Subquinaria</i> Species Complex	200	B4.2	Andrew Duitsman
Madison Johnson	Male-Male Competition Between <i>Drosophila Subquinaria</i> SE70 In the Presence of Food	175	B5.2	Andrew Duitsman
Savannah Ledbetter	Determining Microplastic Concentrations in a Wetland Environment	105	B6.2	Debra Dooley
Waylin Boyd	Evaluating Groundwater Filtration in a Wetland Using Dye Tracers and Monitoring Wells	106	B7.2	Debra Dooley
Jared Parks	Statistical Analysis of BINGO	190	B8.2	Doug Torrance
Mark Backeberg	Understanding the G-Test in Mathematical Statistics	119	B9.2	Doug Torrance
Katherine Prowell	ANOVA	137	B10.2	Doug Torrance
Peter Gardner	Fisher's Exact Test	142	B11.2	Doug Torrance
Sarah Grady	Comparing Soil Organic Layer Thickness in Eastern Hemlock and Replacement Stands Using a Space-for-Time Approach	228	B12.2	Heather Benton
Maya Ballard	Investigating HCHS Teachers' Behaviors and Attitudes Towards Recycling	217	C1.2	Heather Benton
Evie Carswell	Creating A Pilot Trial and Feedback Based Watercolor Program for Improving the SWB of Older Adults at the Habersham County Senior Center	218	C2.2	Heather Benton
Aedyn James	The Correlation Between Rural High School Students' Personalities and Academic Performance	219	C3.2	Heather Benton
Sarrah Morris	An Analysis of Netflix's Contribution to Soft Power: Stranger Things vs. Squid Game	220	C4.2	Heather Benton
Kenzielynn Bodiford	Sex and Sport Differences in Attitudes on Chronic Traumatic Encephalopathy (CTE)	221	C5.2	Heather Benton
Kaleb Adams	County-Level Radon Concentrations and Thyroid Cancer Prevalence in North and Northwest Georgia: A Correlational Study	222	C6.2	Heather Benton
Ashlee Tackett	The Long-Term effect of COVID-19 on Fashion Trends	223	C7.2	Heather Benton
Drew Burns	Hotel California: Drama and Disillusionment	224	C8.2	Heather Benton
Dulcemaria Rojas	To What Extent Does a Preacher's Voice Pitch Have a Psychological Effect on Hispanic Young Adults' Engagement in a Rural Pentecostal Church?	225	C9.2	Heather Benton
Josephine Kabongo	To What Extent Does the Veracity-mix of COVID-19 Vaccine Information Influence Source Item Association Accuracy and Aggregate Vaccine Perception Among Adolescents?	226	C10.2	Heather Benton
Juan Navarro	Origami Satellites and their Structural Integrity	227	C11.2	Heather Benton
Jada Dixon	Looksmaxxing Narratives on TikTok from 2023 to 2025	229	C12.2	Heather Benton

Session 3: 2:30 PM - 4:00 PM

Student(s)	Title	#	Location	Sponsor
Clara Welch, Savannah Limehouse, and Isabella Reulbach	Migration and Population Distribution of <i>Archilochus colubris</i>	211	A1.3	Jennifer Fortunato
Ethan Banks, Reid Taylor, and Nicolas Serna	The Influence of Water Depth on the Distribution of the Greater Blue-Ringed Octopus	212	A2.3	Jennifer Fortunato
Margaret Leger	Steroids, Sugars, and Statistics: The Prevalence of Diabetes Onset with Steroid Use	38	A3.3	Lindsay Dilbeck
Samaura Hillman	Gilchrist's Disease	32	A4.3	Julia Schmitz
Coleigh Elmore	Beyond the Patient: Hidden Pathways of Prescription Opioid Misuse in the U.S.	40	A5.3	Lindsay Dilbeck
Kinsey Nix, Maria Eligio Nava, Emma Hoffman, and Macy Parker	Patient Education Related to Hip Fractures	79	A6.3	Haley Barnett
Ashley Hendricks	Immunizations: Protecting the Public One Vaccine at a Time	41	A7.3	Lindsay Dilbeck
Summer Eastwood, Sarah Crook, Grace Johnson, and Andres Gonzalez Aguilera	Rotator Cuff Injuries	80	A8.3	Haley Barnett
Juan Antonio	Proper Hygiene and Sanitation to Prevent Infectious Diseases	44	A9.3	Lindsay Dilbeck
Emma Reed, Breanna Dickerson, Kiana Chastain, and Jennifer Hurtado	Chronic Pain	81	A10.3	Haley Barnett
Isabella Chapman	How Does Heavy Metal Toxicity Affect Human Red Blood Cells?	206	A11.3	Areatha Ketch
Laura Crone	Anaphylaxis and EpiPen Access	45	B1.3	Lindsay Dilbeck
Alexia Jarrard, Cameron Southard, Emilee Scott, and Murphy O'Brien	Anxiety	84	B2.3	Haley Barnett
Monae Holmes	The Fire & The Foundation: Balancing Crisis Tools with Daily Emotional Resilience	46	B3.3	Lindsay Dilbeck
Reid Kafsky	The Prevalence of STDs in Wrestling	86	B4.3	Lindsay Dilbeck
Shannon Dorrough, Andreea Peguero, and Brooke Prim	Gout: Prevention and Management	87	B5.3	Haley Barnett
Jordan Ballard	Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)	47	B6.3	Lindsay Dilbeck
Mariana Mayo, Addison Thornton, Bailey Kelley, and Veronica Negrete	Asthma	128	B7.3	Haley Barnett
Kendall Rutherford	Guidelines for Glossectomy: Assessment and Treatment Recommendations for the Medical Speech Language Pathologist	92	B9.3	Shannon Williamson
Austin Sears, Taylor Spivey, Ryan Hass, and Grace Stotts	Surgical Wound Infection/Management	143	B10.3	Haley Barnett
Mandi Peretti	Necrotizing Fasciitis	240	C1.3	Julia Schmitz
Addalyn Perkins	Kuru	169	C2.3	Julia Schmitz
Madison Johnson	Respiratory Syncytial Virus (RSV) in Children	172	C3.3	Julia Schmitz
Jesse Smedley	More than Music: Melodic Intonation Intervention for Individuals with Neurogenic Communication Disorders	93	C5.3	Shannon Williamson
Rylee Moore	The Comorbidity of Autism and Apraxia of Speech: Implications for Assessment and Treatment	94	C6.3	Shannon Williamson
Julia Pitts	The Efficacy of Instrumentation Techniques for Assessment and Treatment in Cleft Lip/Palate	95	C7.3	Shannon Williamson
Carson Bezold	The Effectiveness of Cognitive Rehabilitation in Traumatic Brain Injuries: Traditional Techniques and Technological Innovations	96	C8.3	Shannon Williamson
Ansley Hunter	To Minimize or Maximize: Contrasting Phonological Interventions for Maximum Outcomes	97	C9.3	Shannon Williamson
Ashley Schwartz	Symbolic Gestures: Enhancement of Language Content and Use for Improving Speech-Language Disorders	99	C10.3	Shannon Williamson
Chelsea McIntosh	The Efficacy of Assessment Procedures for Nonverbal Communicators with Autism Spectrum Disorder	100	C11.3	Shannon Williamson

POSTER PRESENTATIONS