



THANK YOU

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

Dr. Julia Schmitz
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Peyton Etheridge
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I.T. Department

We would also like to thank the 120 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
Prof. Bruce Willis



THURSDAY,
APRIL 11, 2024
9:00^{AM} – 5:00^{PM}

For more information, visit
piedmont.edu/symposium



PIEDMONT SYMPOSIUM | APRIL 11, 2024

	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	Alcohol use During Pregnancy in Foreign Countries Joanna Tsemelis (#25)	Dying to be a Mother Michelle Cerra (#50)	Young Adult's Crisis: Social Media's Effect on Eating Disorders Luyanna Woolfolk (#28)	Exploring the speed of sound in solid objects Jesse Harbin (#122)	Cat Scratch Disease and AIDS Aisha Anderson, Chloe Chandler (#104)	Criticisms, Conventions, and Identity: The Short Story Lakhiya Franklin (#144)	The Effects of Emotional Trauma on the Development of Children Mary Beall (#7)
	Infertility in Women with PCOS: Interventions to Achieve Pregnancy Gabriella Hayes (#36)	In Preterm Infants, What Is the Influence of Maternal Milk Vs. Donor's Milk on Growth and Development. Cynthia Serwaah (#55)	In Children Diagnosed With ADHD, How Does Medication Compared To Behavioral Therapy Affect ADHD Symptoms? Ashley Pugh (#29)	Maximizing Planck's Spectral Energy Density Function Jared Parks (#151)	The Acclimatization of Joro Spiders (Trichonephila clavata) in High Traffic vs. Low Traffic Areas Rindy Grubb (#143)	The Science Behind Happiness in Men and Women Katherine Prowell (#179)	Hangry on the Back Nine Josh Hebrink (#74)
	Is there a decrease in inpatient stay for infants with effect of Kangaroo Care versus neonates who do not receive Kangaroo Care? Abigail Ryan (#43)	The Benefit of Skin-to-Skin Contact for Newborns: Immediately After Birth Alaina McDonald (#66)	Born Addicted Alexa Benefield (#30)	Generalizing Polyflake Fractals Megan Zeldenrust (#217)	Colony Density and Distribution of Antrodiaetus Burrows Jadon Gonzales (#207)	Wim Delvoye: Modern Gothic and Abject Art Georgia Smith (#154)	Bee Cognition and Picking Flowers Cooper Williams (#163)
Black maternal mortality in the United States: A life for a life Morgan Copeland (#44)	HIV positive pregnant mothers: the medication regimen and the outcome of transmission Kaylee Bermudez (#73)	Early Breast Cancer Screening for Women Under 35: Impact on Quality of Life Cierra Pedraza (#47)			David Carson: Making Waves or Destructive Tsunami? Elizabeth Carter (#193)	Bowerbird Innovation and Problem Solving Techniques Madison Allen (#166)	Race Based Traumatic Stress and Brain Aging Cooper Williams (#168)
Daniel 309-310	Growth in a Preterm Infant Who is Formula Fed vs Breast Fed Marissa Taghon (#39)	In hospitalized patients with catheter associated urinary tract infection, does early removal of a catheter compared to prolonged catheterization reduce the infection rate? Rowan Delf-Montgomery (#33)	Reforming analgesic order sets in postpartum c-section women to decrease opioid use: Are NSAIDs and acetaminophen as effective as opioids? Chloe Crawford (#20)	If patients ingesting artificial food coloring ingest natural food coloring instead, what effect does it have on hyperactivity and attention issues as compared to ingesting artificial food coloring? Jaycie Bowen (#14)	Incentives affecting retention of new grad nurses: Money or Patient-staff ratios Michael Dale (#62)	Hospital Initiated Smoking Cessation Program Effectiveness on Hospitalized Patients Braxton Hodge (#15)	DBT Vs CBT Cianna Dodds (#49)
	Umbilical Cord Clamping in Newborns: Delayed vs. Immediate Matisyn Hill (#51)	Fecal Microbiota Transplant for Recurring Clostridium difficile Infection Breanna Nine (#34)	Hashimoto's disease pharmacological versus non pharmacological Gwyneth Thomas (#22)	Treating Chemotherapy Induced Nausea and Vomiting Using Ginger Taylor Buckner (#19)	Further education about patients disease process to visitors: Effects on precaution and readmissions Maybelline Ordonez (#69)	Does the use of a defined communication protocol between EMS workers and ED nurses improve patient outcomes, lower information transmission, and handoff errors in adult patients? Jackson Traylor (#27)	Sympathetic Care Towards Withdrawing Addicts: Education Priority in CONHS Jaclyn Sampson (#70)
	Does the lithotomy birthing position provide safe delivery for both mother and baby, compared to alternate birthing positions Shadae McFarlane (#61)	In heart failure patients, does implementing a care management program reduce readmissions Katherine Navarro (#46)	Opioid Dependence Among Cancer Patients Abigail Seagraves (#31)	The LUCAS Device: Is it Better at Achieving Return of Spontaneous Circulation (ROSC) Than Manual Compressions During Cardiopulmonary Resuscitation (CPR)? Chelcea Carper (#58)	"How loud is too loud?" Madison Carver (#196)	Will differences in urban vs rural areas affect the rate of diabetes in teens? Constance Tatom (#32)	The Importance of Adherence to Transmission-Based Precautions in Preventing the Spread of Infectious Diseases in Hospitalized Patients Tamara Delgado (#71)
Corporate Punishment vs Gentle Parenting: Effects of Emotional Regulation in Children-PICO Meagan Thompson (#67)	Does the use of self-care vs no self-care affect burnout in nurses? Victoria Nguyen (#68)	ICU Delirium: A balancing act of medications and methods Maria Cruz Acosta (#65)	The Effect of Doulas: Are They a Resource Worth Considering? Meredith Whisenant (#60)	Social Media Use in Parents of Children with Disabilities: Speech Sound Disorders Sarah Moore, Jaycie Ponce (#210)	For people diagnosed with endometriosis, should optimal disease management include the intervention of laparoscopic excision surgery? Ashley Smith (#48)		
Screening Room	Neurogenetics and Social Consequences Madi Allen (#6)	Emotions and the Associated Physical Sensations Anna Wren Greubel (#102)	An Analysis on the Educating the Whole Child: A Systematic Review on Socioemotional Learning Skills and its Benefits Erika Mascheck (#131)	The media and Black Youth Jahkida Doyle (#190)	Hadestown: Applying the Criteria for Musical Theatre Dakota Rose Chen (#92)	Roar Student Documentaries Maggie Bishop, Michelle Cates, Leo Forero, Sophie Haines, Dr. Laura Hudgens, Melissa Jackson, Kayla Lathon, Angelica Lux, Lainey Pettit (#246)	Roar Student Films: Red Carpet Magic! Christopher Belin, Maggie Bishop, Haylie Collins, Keegan Fabien, Ryliegh Fox, Professor Bill Gabelhausen, Sophie Haines, Melissa Jackson, Matthew Kodrowski, Nathan Kuntz, Kate Nye, Jarrett Ray, Tommie Sirmans, Nahomi Itzel Solorzano Centeno, Dante Wilson, Rance Wingo (#247)
	The Potential Benefits of Dogs in University Classrooms Rindy Grubb, Bonnie Jones, Hannah Walker (#230)	The Connection Between Gastrointestinal Disorders and Eating Disorders Morgan Cooper (#215)	Head-Tilting Conversations: Do Pets Understand Us When We Talk? Erika Mascheck (#132)	The Influence of Social Media Celebrities in Marketing Sophie Haines (#197)	Demorest in the Piedmont Haylee Dornan (#160)		
	Addressing the Undercurrent of Racial Exclusion in Human Neuroscience Research Naomi Witter (#241)	The Influence Social Drinking has on the Perception of Alcohol Consumption in College Students Rebeca Garcia (#229)		Uses & Gratifications: How Children Learn Through Movies Lainey Pettit (#208)			
Why are small dogs so mean? Ivannaleea Jones (#101)			TikTok's Influence: Cultivation Theory in the Era of Short-form Content Caylin Anderson (#211)				

	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
Daniel 311-312	Natural Caffeine vs Artificial Caffeine on Cardiovascular Endurance Haley Rizzo (#82)	Effects of using white noise sleeping aid on Division III Collegiate student-athletes Lauren Stone (#94)	Upper Extremity Anthropometry's Relationship to the Velocity and Accuracy of a Tennis Shot Kody Dills (#81)	The Kinematics of Racquet Weight Variations on Serves Marion Sloyan (#95)	Teachers' Perceptions of Occupational Therapy Selah Anderson (#120)	Effects of pre-season conditioning on women's lacrosse players' VO2max by field position Lindley Ward (#167)
	Effects of Caffeine on Aerobic Performance Jillian Addy (#83)	Self-Reported Sleep Quality and Health Trends in Undergraduate College Students Matthew Turner (#106)	Knowledge of the Female Athlete Triad in Division III Female Athletes Rebecca Bell (#85)	Effect of Hormonal Birth Control on Muscle Recovery Following High-Intensity Exercise Destiny Deetz (#96)	The Impact of Athletic Performance on Heart Rate Zones Throughout A Fall Soccer Season Aria Solano (#134)	The Biomechanical Analysis of Different Lacrosse Shot Techniques Brady McGuire (#191)
	Caffeine's Effect on Collegiate Athletes Anaerobic Performance Amanda Price (#93)	The Effect of Acute Carbohydrate Supplementations on Athletic Performance Madelyn Parris (#123)	The Effect of Arm Angle on Velocity and Accuracy in Division III Softball. Hannah Smith (#86)	Stress in Athletes versus non athletes during school Cortney Brown (#97)	Nutritional Knowledge in Athletes vs. Non-Athletes Samantha Seymour (#141)	Prevalence of relative energy in sport (red-s) in division 3 collegiate athletes Cat Mote (#212)
Assessing Hydration on Healthy Individuals Using Commercially Available Hydration Supplements Anika Nguyen (#125)	Positive Effects of Exercise on Psychological Well-Being Caden Collins (#127)	Anthropometric Measurements' Effect on Basketball Free Throw Percentage Amyah Williams (#88)	The Effects of Stress in Division III Collegiate Swimmers Elizabeth Arrendale (#98)	Determining the Risk Factors that Expose Female Athletes to ACL injuries Colby Reed (#148)	Anthropometrics in Swimming Matthew Luther (#214)	
Art Museum	People are Strange: Cognitive Estrangement in Science Fiction Mia Harrington (#145), Katie Nye (#260), Alaina Gordon (#261), Kelly Maldonado-Flores (#263)	Speak, Editors: Notes on the Production of COMP: an interdisciplinary journal Madison Allen, Malachi Fleming, Tanisha Johnson, Ally Nguyen (#115)	Mars is Heaven (Science Fiction) Nicole Kayson (#262), Jazmin Guitierrez (#264)	Blended Characterization and Motifs in Sir Gawain and the Green Knight Olivia Martin (#89)	Department of Art: Senior Capstones Julian Benson, Rebecca Brantley, Sam Brooks, Elizabeth Carter, Gary Halverson, Imani Spence, Katherine Windham, Jesselle Witter (#251)	Did you see a presentation that you really liked? Did you see an awesome poster? Tell the presenter what a great job they did. SCAN the QR Code and share your comments with them. Liongram Symposium 2024
	Financial algorithm Blake Bolen (#255)	AirPod Boost Marketing Plan Erin Donovan, Eric Edmonson, Jaz Gutierrez, Angelica Lux, Aaron Martin del Campo (#155)	Investigating the 'Star' Effect: An Econometric Analysis of the Impact of Star Players on Revenue and Attendance in Sports Games James Cooper, Ben Kolbie, Marion Sloyan (#157)	The Teaching of Slavery and the Holocaust in the United States and Germany Adam Cook, Bryce VanOrder (#158)	The Impact of Cultural Beliefs on Perceptions Related to Autism Rebeca Garcia (#200)	
	Account Fraud Algorithm Will Donaldson (#256)	Green Power Batteries Tiwalade Adeyemi-Bajo, Ethan Jackson, Ava Kerpics (#206)	The Structure of (MLS) Major League Soccer Connor Lane, Isaiah Lopez, Remo Scholl (#202)	Public Transportation in the United States vs. Germany Kolton Gant, Jesse Smedley (170)	Effectiveness of the Death Penalty as a Deterrent on Homicide within a Mega City John Gardner (#250)	
Conference Room	Breakfast Sausage Briana Laidman, Kennlie Jamison, Kylee Parker (#257)	Dinner Sausages Sean Bailey, Matthew Dupuis, Maxwell Kaufman (#258)	The Effect of Pay on Player Performance Jack Gilsenan, Nathan Mix, Tyler Nelson (#203)	Tennis Shoe Tape Dexter Cahill, Brent Sherman (#222)		
			How/If Major League Baseball player PED suspensions negatively affect team revenue and future profit growth. Kyle Carlson, Bodie Eilertson, Owen Helgesen, Carson Huber (#205)	Golf Glove Marketing Project Isaiah Lopez, Benjamin Watkins (#234)		
				NIL Deals for College Athletes. How much money can athletes make? Fisher Darden, Caleb Lesch, Silas Mulligan (#245)		



RADIO SHOW
2:00-3:00

Student-Athletes, Finding Success in the Classroom and on the Field

Zane Brookshire, Pierce Crane, Eric Edmonson, Leandro Forero, Simmon Johnstone, Nathan Mix, Abbey Venham, Jessica Sconyers (#129)

Session 1: 9:00-10:30

Student	Title	Number	Location	Sponsor
Kennedi Henson, Mallory O'Brien	Credit Building: The Do's and Don'ts	239	A1.1	Kris McWhite
Carson Huber, Jackson Mason	What is a Credit Score?	213	A2.1	Kris McWhite
James Cash, Ryan Colwell, Braddon Randall	Roth IRA vs Traditional IRA	194	A3.1	Kris McWhite
Jason Aussin, Cameron Lucas, Draylon Starks	What Job Expenses can I "Write Off" as Expenses?	189	A4.1	Kris McWhite
Andrew Bennett, Eric Penland	The Importance of a Health Savings Account (HSA)	187	A5.1	Kris McWhite
Andrew Pagano, Jackson Shirley, Tamar Tompkins	Decoding the Drive: Is Leasing Your First Vehicle a Wise Move?	171	A6.1	Kris McWhite
Maxwell Shaughnessy	Analysis of Antibacterial Properties in Essential Oils	8	A7.1	Julia Schmitz
Kendall Jenkins	The Effectiveness of Raw Honey and Raw Milk on Bacteria Compared to the Antibiotic Ampicillin	192	A8.1	Julia Schmitz
Melissa Eller	Food Waste and Sustainability	153	A9.1	Deb Dooley
Ans Robinson	The Deep End of Fish Trade	137	A10.1	Deb Dooley
Carson Bacerra, Waylin Boyd, Ella Cain, Amelia Esther, Sarah Fox, Avonlea Kirby, Brianna Lanier, Demarcus Miller, Kellianne Schlosser, Grace Wilson	The Impact of Climate Change on the Occurrence of Natural Disasters	159	A11.1	Deb Dooley
Kelsyn Lundell, Leah Shelt, Alexia Vaca-Nava	Comparison of Infection Prevalence and Intensity by the <i>Trematode Metagonimoides oregonensis</i> between Two Species of Plethodontid Salamander	75	B1.1	Carlos Camp
Jenna Ash	Seasonal Variation in Infection of <i>Desmognathus amphileucus</i> Larvae by the <i>Trematode Metagonimoides oregonensis</i>	77	B2.1	Carlos Camp
Domonique Hill	Behavioral Plasticity in Sheet-Web Spiders	3	B3.1	Rebecca Godwin
Julia Ludwick	Does Variable Salinity Affect Dinoflagellate Algal Blooms?	84	B4.1	Rebecca Godwin
Addie Bowen	Decomposition of Blood	149	B5.1	Areatha Ketch
Addie Bowen, Kelsyn Lundell, Madison Nance	Bioluminescence Bacteria	188	B6.1	Andrew Duitsman
Brook Patton	The Effects of Vaping Liquid on Integrity of Tooth Enamel	195	B7.1	Elaine Bailey
Hannah Simmons	Extraction of Fatty Acids From Spent Coffee Grounds: Dark Versus Medium Roast	116	B8.1	Elaine Bailey
Janiah Rakestraw	Fatty Acid Esters in Coffee: Beans vs. Grounds	110	B9.1	Elaine Bailey
Emily Rankin	The Impact of Diverse Geographic Locations on the Fatty Acid Content of Coffee Grounds	80	B10.1	Tina Smith
Courtney Cates	Hurt to Healing: PTSD after Injury	135	B11.1	Tina Smith
Kelsey Banks	Malaria: A Life-Threatening Endemic	150	B12.1	Julia Schmitz
Rylie Erickson, Hannah Franks	Botulism	99	C1.1	Julia Schmitz
Carson Bezold	Ringworm	147	C2.1	Julia Schmitz
Reagan York	Bacterial Meningitis	146	C3.1	Julia Schmitz
Katie Hubbard	Toxic Shock Syndrome	136	C4.1	Julia Schmitz
Ashley Scott	Epilepsy	198	C5.1	Tina Smith
Avery McAllister	Skin Disorder: Rosacea	236	C6.1	Tina Smith
Andrea Williams	What is RSV?	254	C7.1	Tina Smith
Annalee Keys	What is MRSA?	91	C8.1	Julia Schmitz
Reaghan Anderson	Medications in Diabetes	182	C9.1	Tina Smith
Rylie Dingfelder	Bulimia Nervosa Prevalence in Collegiate Athletes	130	C10.1	Tina Smith
Aria Solano	Navigating Ventricular Conditions: Understanding Defects and Promoting Heart Health	133	C11.1	Tina Smith
Ariel Berry	Do I have strep or just a sore throat?	184	C12.1	Tina Smith

Session 2: 11:00-12:30

Student	Title	Number	Location	Sponsor
Abbey Mauldin	Sentencing Disparity Between White and Native American Offenders	78	A1.2	Cynthia Vance
Abbey Mauldin	The Effects of Race and Gender on Criminal Sentencing	138	A2.2	Cynthia Vance
Shyla Sheffield	The Influence of Opinions on Mental Institutions and Their Effect on Self-Reporting Mental Health Conditions	183	A3.2	Cynthia Vance
Shyla Sheffield	The History of Psychology in 1890	224	A4.2	Cynthia Vance
Katherine Windham	Color Theory and Emotions	5	A5.2	Mike Friedline
Brooklyn Bolch	Clinical Utility and Evidence Base of Dysphagia Content on YouTube: Phase 1	118	A6.2	Monica Harn

MG Gallarelli	Comparison of Body Weight Perception and Life Success: The Body Positivity Movement	126	A7.2	Cynthia Vance
Chesney Seagraves	Social Behaviors and Patterns of Elephants	128	A8.2	Mike Friedline
Haylee Dornan	The Effect of the Gifted Label on Educational Success	140	A9.2	Kristin Ford
Wes Rogers	Eyewear's Perceived Increase of Intelligence on Memory	4	B1.2	Mike Friedline
Wes Rogers	A Biography and Research Summary of Neuroscientist Sarah Kark	152	B2.2	Mike Friedline
Wes Rogers	The Effect of Induced Self-Esteem on Memory	156	B3.2	Cynthia Vance
Hannah-Reagan Mercado	The Influence of Fear Induction on Anxiety Levels	223	B4.2	Cynthia Vance
Kasey White	If I were a sports psychologist, how would I help my athletes with their stress?	201	B5.2	Mike Friedline
James Whitmer	If I Were a Sports Psychologist, How Would I Motivate Athletes?	235	B6.2	Mike Friedline
Bryn White	Sports Psychology - Question Presentation	238	B7.2	Mike Friedline
Vanessa Sanchez Manzo	Animal Cognition	240	B8.2	Mike Friedline
Jaslyn Lee	Alternative Powders for Fingerprinting	103	C1.2	Bruce Willis
Isabella Reulbach	Analyzing Drug-Related Factors in Postmortem Decomposition	219	C2.2	Bruce Willis
Jenna Meinberg	Manual Vs Controlled Strangulation	220	C3.2	Bruce Willis
Anna Wren Greubel	The Great News	76	C5.2	Cynthia Vance
Anna Wren Greubel	Theories of Emotions Over Time	199	C6.2	Cynthia Vance
Mary Beall	Do working dogs like working? How can we tell?	172	C7.2	Mike Friedline
Mary Beall	Autoimmune conditions effecting women more than men	174	C8.2	Mike Friedline

Session 3: 2:00-3:30

Student	Title	Number	Location	Sponsor
Jeannie Ausburn, Olivia Bechtel, Aubrey Garrett, Nicholas Griffin, Amy Houston	Medication Errors in Nursing	87	A1.3	Haley Barnett
Addi Barrett, Tucker Cox, Harley Helms, Ashlyn McEntyre	Patient Safety Issues: Inpatient Falls	100	A2.3	Haley Barnett
Courtney Miller, Autumn Redd, Ashley Simmons, Helen Ulloa, Esperanza Zinnen	Importance of Handwashing	109	A3.3	Haley Barnett
Jennifer Barajas, Daniella Canup, Zayda Gonzalez, Emmaleigh Harris, Rebekah Jennings	Glove Usage in the Clinical Setting	111	A4.3	Haley Barnett
Meredith Pollette	The Kaplan-Meier Distribution	119	A5.3	Doug Torrance
Victoria Sierra	Metropolis-Hastings Algorithm	164	A6.3	Doug Torrance
Jesse Harbin	Survival Analysis	169	A7.3	Doug Torrance
Megan Zeldenrust	Pearson's Chi-squared Method	218	A8.3	Doug Torrance
Samantha Godina, Mitzi Natera, Jami Rugerio, Breanna Sosebee, Samara Valencia	Pressure Ulcers: Causes and Interventions	112	A9.3	Haley Barnett
Kendall Rutherford, Jesse Smedley	Social Media use of Parents of Children with Communication Disorders: A Scoping Review	113	B1.3	Monica Harn
Ansley McLean, Mya Parrott, Marlene Seeber, Katherine Stigall, Ayndi Wimmer	CAUTI's Related to Patient Safety	139	B2.3	Haley Barnett
Hope Shirah	Shingles: Who? What? Why? How?	233	B3.3	Julia Schmitz
Rebecca Bailey, Lauren Hambrick, Chelsey Sanders	Dyslexia, truths, myths and treatment	204	B4.3	Tricia Anderson
Hadden Carswell	Student Government Association	173	B5.3	Kim Crawford
Morgan Cooper	Self Esteem in the LGBTQIA+ Community	177	B5.3	Cynthia Vance
Amelia Esther, Hannah Franks, Kasey White	Alternative Spring Break	209	B7.3	Jessie Kellogg
Clarina Davis, Sha'Quoia Lockett, Amy White	USA Slavery vs Germany Holocaust Taught in K-12 Education	178	B8.3	Brian McDermott
Will Craven	Computer Graphics: How to develop your own simple PyGame	214	Tables	Bob Lutz
Jonathan Garver	Piedmont Weather Data Collector on Android and iPhone	162	Tables	Bob Lutz
Rose Earl, Jonathan Garver, David Salas Carrascal	Interactive Theramin with Oculus Quest	225	Tables	Bob Lutz
Rose Earl	Implementing the Puzzle/Card Game "Set" on Android and iPhone	243	Tables	Bob Lutz
David Salas Carrascal	An Augmented Reality (AR) Virtual Molecule Viewer	227	Tables	Bob Lutz
Jeremy Cooper	Network Scanner App for IT Technicians	253	Tables	Bob Lutz
Rohani Kavaili	What if Angry Birds had a Trebuchet? A Simulation	259	Tables	Bob Lutz