Colleges of Liberal Arts

Adam Houser

Adam Houser is a graduate of the University of Findlay, holding degrees in applied philosophy (B.A. ‘10) and education (M.A.E. ‘12). He received an M.S. in industrial engineering in 2015 and is currently a Ph.D. candidate in industrial engineering at the University at Buffalo, State University of New York, where he is currently a senior graduate research assistant with the Formal Human Systems Laboratory. He also works as a cognitive systems engineer for Resilient Cognitive Solutions in Pittsburgh, Pennsylvania. Houser has worked on research projects for the Georgia Institute of Technology, North Carolina State University, NASA, the US Army Research Office and the Air Force Research Laboratory. His academic work focuses on the use of formal methods and automated theorem provers to examine human-interactive systems for unsafe or undesirable operational characteristics, and his dissertation topic explores the extension of these concepts to cybersecurity defense systems and strategies. He currently lives in upstate New York with his fiancée, who is also a UF graduate (B.S. ‘11).

Parsons is a preceptor for student pharmacists completing advanced pharmacy rotations and the chief preceptor for post-graduate year (PGY) 1 and 2 residents completing advance rotations in cardiovascular intensive care (CVICU). He is an active member of the American Society of Health-System Pharmacists (ASHP) and the Society of Critical Care Medicine (SCCM). He serves as the Chair of the ASHP New Practitioners Forum Practice Advancement and Advocacy Advisory Group and was a previous chair of the Membership and Outreach Advisory group. Parsons holds a Doctor of Pharmacy from the University of Findlay. He has completed a PGY-1 residency in pharmacy practice with MedStar Washington Hospital Center in Washington, D.C. and a PGY-2 specialty residency in critical care with Stanford Health Care in Stanford, California. He is a Board Certified Critical Care Pharmacy Specialist and licensed to practice pharmacy in the states of California and Ohio.

Colleges of Business

Barrett A. Brooks, Jr.

Barrett A. Brooks, Jr. graduated Magna Cum Laude from the University of Findlay on May 7th, 2011, earning a 4-year degree in marketing while minoring in business administration. Brooks has been employed with ADP RPO, LLC (formerly The RightThing, LLC) since graduating from the University of Findlay and serves as a senior recruiter within the company. Prior to his current position, he interned at Marathon Petroleum Corporation during the summer of 2010 where he worked in the Asphalt and Heavy Oil Marketing Department; this opportunity came through the University of Findlay’s Center for Career & Professional Development. Brooks shows veneration to his former academic advisor and college mentor, S. Chris Ward, Ed.D., who serves as Professor of Business and Director of Civic Engagement at the University of Findlay and played a vital role in Brooks’ occupational achievements. More recently, Brooks was a candidate for Findlay City Council Councilman At-Large for the 2018-2020 term. Although he came up a few signatures short of his name appearing on the voting ballot, the political experience strengthened his resolve to be a leader in the local community.

Brooks still resides in Findlay, OH with his beautiful wife Shavon (Jones ’11) Brooks and three young children (Amiyah, age 4; Savannah, age 3; and Barrett A. Brooks, III, age 1). Brooks’ Christian faith, family and fellowship are the driving forces behind his desire to live a meaningful life and productive career.
College of Health Professions Speaker

Heidi Mercer
Heidi Mercer is a 2006 University of Findlay Alumna graduating with a Bachelor of Arts with a major in Social Work. Mercer completed two years in the AmeriCorps Program, serving in non-profits in Colorado, Texas, Michigan, Kansas and California. She completed her master’s in social work at Case Western Reserve University in 2008. Mercer has just returned to the area from working as a children's services social worker in England for the past seven years. She was a member of an expert team focusing on assessing and interviewing children and young people who display sexually harmful behavior including those that experienced sex trafficking. She is currently the human trafficking survivor supervisor at crime victim services serving sex and labor trafficking survivors in 16 counties in northwest and west central Ohio.

Mercer has been fortunate enough to travel throughout the world, particularly during her years living in the UK. For Mercer, travel is essential for her reflection and development, not only as a social worker but as a well-rounded person. Mercer will show how she has integrated lessons learned throughout her travels into her day-to-day social work practice. Mercer encourages everyone to travel to better understand the other side!

College of Education Speaker

Brent Wise
This is Brent Wise’s 14th year in education. He is a 2004 graduate of the University of Findlay with a Bachelor of Arts in AYA integrated social studies education. Wise began his teaching career at Delaware Hayes High School in 2004 where he taught various social studies courses for 9th-12th graders. During the four years he was employed in Delaware, Brent also taught the broadcast television class and coached multiple varsity sports. In 2008, he taught 7th-and-8th-grade social studies at Olentangy Orange Middle School. It was there, 7 years ago, that Wise piloted an early BYOD program for his class, moving instruction from analog to digital in the hopes to personalize the middle school experience for his students. In 2008, Wise was named Teacher of the Year before moving into administration.

Wise began his administrative experience in 2012, when he was named Director of Innovation and Extended Learning for the Hilliard City School district. During his tenure in this role, Wise developed experiences and led the renovation and design of the McVey Innovative Learning Center. Wise also served as the administrator for the 1,000-student building for four years, offering individualized opportunities for students that are not offered in traditional buildings. In 2013, Wise was named the Educator of Excellence. After earning his undergrad from the University of Findlay, Brent earned a master’s degree in teaching and learning/education from Marygrove College and a master’s in school leadership administration from Concordia University. Wise believes in a strong culture, relevant instruction and personalized experiences for students and staff. His wife Lindsey, also a teacher, and their three children McKinley, Coy, and Cora, currently reside in Delaware, Ohio.

College of Sciences Speaker

Justin Shannon
Justin Shannon is an operational risk analyst at Marathon Pipe Line LLC. His current role focuses on identifying and assessing environmental and public safety risks presented by hazardous liquid pipelines. During his time at Marathon, Justin has used his skills in mathematical modeling to analyze various phenomena, including corrosion growth rates, puncture resistance of steel, emergency response time during catastrophic events, dispersion of highly volatile liquids, pipe internal design pressure, erosion potential at waterways and crack probability of failure. Justin is also experienced in fire and explosion analysis and recently received his Lean Six Sigma Green Belt.

Justin received his Bachelor of Science in Pure Mathematics, Operations Research, and AYA Education from the University of Findlay in 2010 and his Master of Arts in Pure Mathematics from Bowling Green State University in 2012.
1:00-1:20 p.m.

DAVIS 181
Beyond the Classroom: Living History at Colonial Williamsburg
Britney McIntosh
Sponsor: Julie McIntosh

Follow the footsteps of a pre-service teacher who attended the Colonial Williamsburg Teacher Institute in Williamsburg, Virginia. Learn about the innovative practices, implementation of primary sources, and ways you can bring history to life! This presentation demonstrates the benefits of teacher professional development and pushing yourself outside your comfort zone!

DAVIS 179
Unvirtuous Findlay: Victorian Prostitution’s Impact on the City and its Citizens
Joy Brown
Sponsor: Christine Denecker

An examination of Findlay's prostitution trade, which flourished during the natural gas and oil boom, finds that these workers, through economic influence and social agency, contributed to the city's development. Rhetorical analysis seeks to present an unbiased reflection on these women's lives and their benefits to the community.

DAVIS 188
Oilers Serving Abroad
Katie Ahrens, Kaleb Brown, Jenna Irwin
Sponsors: Chris Sippel, Rachel Walter

Established in 2013, Oilers Serving Abroad is a student-led group that serves in the Dominican Republic three times a year. OSA's mission is to provide opportunities for Oilers of diverse disciplines to serve our global community, learn about culture, establish relationships, and enrich our lives.

DAVIS 2225
The Findlay Day of Giving Website
Aaron Reasor, Taylor Malsam, Allison Hall, Robert Warton
Sponsor: Jordan Ringenberg

Established in 2016, the Findlay Day of Giving was created by the Annual Giving Office to promote donations to UF Scholarships. Every gift received during the twenty-four-hour period supports Findlay Fund Scholarships. To assist with this goal, we have created a website for the upcoming 2017 Findlay Day of Giving.

DAVIS 102
Supplementation of Saccharomyces Cerevisiae Effect on Equine Cribbing, Movement and Aggressive Behaviors
Emily E. Powell, Rebecca A. Koler
Sponsor: Toree L. Bova

The current study examined the effect of yeast supplementation on abnormal behavior such as cribbing, movement, and aggressive behavior. Supplemental diets had no effect on behavior (p>0.05). Cribbing behavior was effected by time (p=0.0861). Overall, treatment of Saccharomyces cerevisiae supplementation resulted in no improvement to equine behavior.

DAVIS 1121
Cell Viability of Secondary Metabolites from Fungal Extracts: A Comparison of Three Human Cancer Cell Lines
Skylar Cooper
Sponsor: Michael Edelbrock

Fungus is known to have cytotoxic properties, which makes them a good component when researching cell lines. This project looked at three types of cancer cells—melanoma, cervical, and colon—and compared them side-by-side after treating them with various types of fungal extracts. After many trials, evidence suggests that at least one of the extracts has shown toxicity, ultimately leading to apoptosis. This research is being further explored in hopes to find more fungi with toxic effects.

DAVIS 186
Perceived Benefits and Values of Level II Fieldwork in the Community
Katie Poorman, Elizabeth Montalvo, Kendall Kwiatkowski, Patrick Walker, Taylor Hamrick, Jessie Harmon, Colton Sayers, Brooke Scherger
Sponsor: Mary Beth Dillon

This presentation will describe how researchers developed and distributed a survey to former UF occupational therapy students who completed a community-based fieldwork rotation. Results were analyzed to determine the perceived values and benefits of occupational therapy students working in this setting.
The introduction of comments sections to online news articles enables greater reader participation online. However, scant research has been done on the impact of sexist rhetoric, despite its presence in online spaces. This project analyzes the impact of sexist rhetoric in the comments sections of Buzzfeed, Fox News, and MSNBC.

Through a mixed-methods approach, surveys and interviews were conducted to evaluate the need for a group therapy program for offenders as part of their community control in Putnam County.

This presentation provides full disclosure of the value of human capital in the financial statements of the top 50 companies in the Fortune 500. The presentation challenges traditional accounting to become more transparent and accountable.

Blanchard Valley Hospital nursing educators track training dates for employees and ensure that they stay up-to-date on certifications. Their current workflow takes too much time to complete. Our software engineering team created a solution to help streamline their process to keep nurses competent, certified, and educated while saving time.

The study examined education of middle-school aged students in meat products. Participants completed a survey before and after being educated about the meat industry. In conclusion, students did not feel like the game aided in learning, but the students did test better after the lesson, proving effectiveness of the method.

Project investigated the effects of different fungal extracts on cancer. Various extracts chosen were tested on the Human cancer cell lines and the response to the extracts (cell death) was analyzed. The objective was to isolate fungal extracts, which lead to high cell death, as possible cancer treatments.

The presentation will explain our international experiences and how they helped us learn and open our minds to new cultures. As a part of the Buford Center, we work to engage students through diversity opportunities and service learning. Our experiences as graduate assistants will be shared with students, as we discuss how the Buford Center has helped us grow through learning, engagement, and travel.
DAVIS 1129
A Comparative Study of the Average Blood Lead Levels in the Children under 6 years of Age in Different Counties of Ohio Versus Their Respective Cities and Analysis of Their Correlation with the Socio-economic Variables and the Number of Pre-1950 Housing Units
Eureka Joshi
Sponsor: William Doyle

This research was carried out in order to study the difference in number of lead poisoning cases in children under 6 years of age. We identified various cities and counties in Ohio to analyze the correlation between elevated blood lead levels, socio-economic variables and the number of pre-1950 houses.

DAVIS 183
The National Park Guide Map: The Rhetorical Strategies that Shape the Visitor Experience
Andrew Lewis
Sponsor: Ronald Tulley

The National Park Service guide maps introduce visitors to a park, showcasing sites with natural and cultural significance. The guide maps paint a picture through written text and photographs, relaying sites and experiences unique to each park. Each park offers a unique experience; however, the guide maps represent national parks in a similar way by consistently referencing a set of ideals commonly associated with national parks.

2:00-2:20 p.m.

DAVIS 1129
Relationships Among the Vertical Force and Pressure on a Horse’s Hooves and the Risk of Injury During a Walk, Trot, and Canter
Joni Montgomery, Heather Reist, Katelyn Reist
Sponsors: Guofen Yu, Nicole Thüngen

Lameness is an important topic in the horse industry. Education about risks is key to preventing possible hoof injuries. This presentation provides insights into possible causes of lameness – excessive vertical force and pressure. Vertical force and pressure on hooves during a walk, trot, and canter were compared among sound horses.

DAVIS 184
Know for Whom the Tax Bell Tolls
Laura Campbell
Sponsor: Jeremy Cripps

This presentation examines the burden of federal income taxes on family groups with annual incomes ranging from $20,000 to $5,000,000. The results of this class research project prove incontrovertibly that the greatest federal tax burden fell upon citizens who earn the lowest incomes.

DAVIS 102
Coccidiosis Rates in Two Breeds of Chickens Fed 16 and 22% Crude Protein
Maureen Reiser
Sponsor: Toree L. Bova

The objective of the current study was to examine coccidia rates on Freedom Rangers and Cornish crosses that were fed 16 and 22% Crude Protein. Increased protein resulted in higher coccidia in soil compared to lower protein diets, potentially causing subsequent flocks to become infected with coccidian.

DAVIS 186
Call to Action: A Multitude of Homelessness Misconceptions
Joy Dolejs, Sabrina Braunlich
Sponsor: Crystal Weitz

On any given night in the United States approximately 565,000 people experience homelessness. The topic of homelessness has many misconceptions that surround it including addiction, education, and mental illness. Our presentation will serve to resolve and clarify some of these stereotypes that many do not understand.

DAVIS 2225
Findlay Media Story Center
Jon Boyer, Colin Causey, Derek Reinhart
Sponsor: Jordan Ringenberg

The University of Findlay currently has several disparate websites hosting various student media outlets. Among these media outlets are FMN, the Pulse, UFTV, and WLFC. Our goal is to create a portal site unifying UF’s various media outlets together under one banner, with the intention of delivering a superior story-based multimedia experience to both UF students and the broader Findlay community.
“Look Up Here I’m in Heaven”: Using the Digital Rhetorical Canons in Analyzing Online Memorials of David Bowie and Merle Haggard

Robert Beebe
Sponsor: Ronald Tulley

This presentation is a digital rhetorical analysis of the websites of deceased musicians David Bowie and Merle Haggard using Collin Gifford Brooke’s (2009) reimagination of the five canons of digital rhetoric as laid out in his book Lingua Fracta. This analysis also reveals the usefulness of digital rhetorical theory when studying online memorials as it provides a more intricate lens with which to study the specific interfaces of those memorials.

Demanding Programs at the University of Findlay Cause Students to Behave Similarly to Students with Diagnosed Learning Disabilities

Mackenzie Ocock
Sponsors: Meri Marsh, Mary Cameron

The “college experience” is a memorable time in a young person’s life. It is filled with fun, adventure, as well as an abundance of learning. However, college life can also be tremendously stressful. Students who endure extreme levels of stress can exhibit the symptoms of a learning disability.

The Black-Scholes Formula for Option Pricing

Jingyuan Chen
Sponsor: Michael Crumley

We will discuss the Black-Scholes formula, the probabilistic model of stock prices from which it is derived, and some well-studied instances where this formula does not give the actual observed value of real-world option prices. The software Maple will be used during the presentation.

London from a Poet’s Eye

Logan Chapman
Sponsor: Courtney Bates

In my presentation, I will display a PowerPoint with highlights from my trip to London, including pictures that I took while I was there. I will also read a few poems I wrote in London correlated to these pictures and my experiences there. Lastly, I will give a brief description and view of the blog I created for my research project.

Government Surveillance and Its Implications for First-Year Writing

David Maynard
Sponsor: Ronald Tulley

Investigation of institutional and scholarly discourse within first-year writing suggests that scholars have yet to adequately address the increasingly urgent ethical implications of ongoing government surveillance and major web companies’ potential complicity. Alternative theoretical frameworks are needed to more productively examine the implications of government surveillance for first-year writing.

CheckMyWill.com’s CSCI480 Software Engineering Project

Geremy Taylor, Benjamin Homsher, Alexander Menteer, Nicholas Koehler
Sponsor: Jordan Ringenberg

If someone were to pass away in an untimely manner, the presence of the deceased’s will may be unavailable. The purpose of our project is to create a website where people can make it easier for close friends and family to find their will in the case of a death.

Bienvenido a España

Allison Pellerito
Sponsor: Rachel Gerber

Have you ever considered living in the heart of a bustling European city, riding the subway to school, or taking weekend trips to the Mediterranean Sea? If so, please join junior animal science/pre-veterinary medicine major, Allison Pellerito, as she reflects on her experiences studying abroad in Spain.
Obese Orthopedics: The Correlation between Osteoarthritis, Obesity, and Range of Motion

Autumn Brehm
Sponsors: Guofen Yu, Brandon Forshey

Velocity and displacement of stifle, range of motion, force on paws, and articular space of the femoral-acetabular joint were examined to correlate a potential increase in incidence of osteoarthritis with regards to obesity in beagles.

Earnings Projections Using Linear Algebra

Samantha Armstrong
Sponsor: Michael Crumley

It is a central problem in all types of business to predict future earnings. Using well-known curve fitting techniques in linear algebra, this problem can be reduced to solving systems of linear equations. We will discuss these techniques, and the cautions against putting too much confidence in these projections.

The Progression of Slavery: A Cultural & Social Justice Exploration

Kaleb Brown, Julia Harris, Madilyn Greiner, Seema Shrestha, Miguel Valdez
Sponsors: Crystal Weitz, Robert Braylock

This two-day program provided ten UF students with the opportunity to explore slavery and human trafficking from a modern and historical perspective. Students attended End Slavery Cincinnati’s 2017 Anti-Human Trafficking Conference and visited the National Underground Railroad Freedom Center. This presentation will focus on the students’ experiences and reflections.

An Apple a Day Keeps Your Business in Play

Tyler Donaldson
Sponsor: Patricia Abels

In my presentation, I will use data gathered to show the increased success of businesses that have implemented a health focus into their work setting. Also, I will be discussing how this not only improves the quality of life of an employee but also the success of a business!

UF Partnering with UF

Stephanie Goodrich, Emily Rucki, Samantha Sayre
Sponsor: Allison Baer

This June, for the first time, UF COE students will do an exchange with Japanese students from University of Fukui. The three participating students will share the process of preparing for this trip, which will include teaching Japanese students in grades 1 through 6 and getting to know the Japanese education system.

The Relationship between Herding Tendency and Information Asymmetry

Siu Kong Yau
Sponsor: Yaseen Alhaj-Yaseen

We explore if herding tendency is correlated with the degree of information asymmetry and if market liberalization has changed this relationship. Our empirical results from the A-share market suggest a positive and monotonic relationship between herding tendency and the degree of information asymmetry exists in the post-liberalization period but not in the pre-liberalization period.

Correlation between Bark Frequency, Canine Size and Length of Canine Vocal Tract

Alysse Budd
Sponsor: Landon Bellavia

The correlation between the bark frequency of canine vocalizations, the length of canine vocal tract lengths, and the size of the canine was analyzed by recording barks from several canines and comparing their bark frequencies to their weight. The measured and calculated vocal tract lengths were compared to verify data.

Anti-Cancer Effects and Mechanism of Action of Phosphocholine Esters

Kelley O’Connell
Sponsor: Shantanu Rao

This topic presentation will be discussing student research conducted in the attempts to identify anti-cancer properties of selected phosphocholine compounds. This presentation will include an in-depth discussion of research techniques used and scientific data generated to arrive at such conclusions.
DAVIS 183

The Banking Industry of Nepal: Weaknesses and Threats
Ayushma KC
Sponsor: Nabarun Ghose

The main aim of the presentation will be to show how Nepal is overcoming its challenges after the massive earthquake of 2016 and still holding its ground. Five-years of data is analyzed to show how the profit is still going upwards.

DAVIS 179

Sexuality and Dominance in American Horror Story: Hotel: A Feminist and Queer Analysis
Jacob King
Sponsor: Christopher Medjesky

A queer and feminist analysis on the American Horror Story: Hotel television series and its main character, the Countess. The analysis focuses on the negative stereotypes reinforced by the show and offers regression of women in the media.

DAVIS 186

The Progression of Slavery: A Cultural & Social Justice Exploration
Abigail Coreless, Kopila Paudel, Charles Nkerbu, Paige Kinsinger, Rachel Wymer
Sponsors: Crystal Weitz, Robert Braylock

This two-day program provided ten UF students with the opportunity to explore slavery and human trafficking from a modern and historical perspective. Students attended End Slavery Cincinnati’s 2017 Anti-Human Trafficking Conference and visited the National Underground Railroad Freedom Center. This presentation will focus on the students’ experiences and reflections.

DAVIS 1121

Let Your Computer Do the Shopping: Computer Learning through Bayesian Reasoning
Matina Matic
Sponsor: Pam Warton

Using concepts in machine learning and mathematics, a website was designed to collect data and an algorithm was written to learn user’s preferences in regards to fashion.
Poster Presentations

POSTER PRESENTATIONS

3:30 - 5:00 p.m.

Poster: 1

**Student Perceptions of End of Semester and Midterm Exam Remediation Policies**

Alyssa Stidham, Erin Siegel, Kelly O'Connell  
Sponsors: Lori Ernsthausen, Bradley Shinn

This poster presentation will discuss research conducted by College of Pharmacy faculty and students attempting to investigate the perceptions of professional pharmacy students on the recently implemented remediation policies. The policies, adopted in 2015 and 2016, allow students to remediate courses and mid-term exams when falling below a predetermined standard.

Poster: 2

**The Effect of Varying AR-15 Buffer Springs on Recoil Force**

Matthew Hoover, Robert Cramer  
Sponsor: Guofen Yu

This project will determine the effect of varying AR15 buffer springs on recoil force. Each buffer spring has a different spring constant which will be experimentally determined using Hooke's law, prior to the experiment being performed. A comparison between recoil force and spring constant is made to properly evaluate their relationship.

Poster: 3

**Understanding Mass Shooters’ Exposure to Adverse Childhood Experiences**

Lacey Grogan, Erica Frantz  
Sponsor: Andrea Mata

The purpose of this study is to investigate the prevalence of adverse childhood experiences in the lives of mass shooters. The Adverse Childhood Experiences scale will be used to code information found on the 80 mass shooters included in the study. We plan to present descriptive statistics of our findings.

Poster: 4

**The Moment of Inertia in Swimmers**

Alyssa Sauter, Brittany Borzych  
Sponsor: Landon Bellavia

This research project explored the possible correlation between the moments of inertia of a swimmer's arms and the frequency of their arm movements.

Poster: 5

**Effects of Varying Squat Kinematics on Center of Pressure Distribution at the Foot**

Charles Manocchio, Meagan Rhine  
Sponsors: Guofen Yu, Edward Nyman

One of the most fundamental and beneficial athletic moves, the squat, can lead to detrimental injury when performed incorrectly. We aimed to explore the negative forces created during incorrect squat form in relation to how the center of pressure (COP) changes across the plantar surface of the foot.

Poster: 6

**The Effect of Two Media Seria on the Doubling Time of Tumor Cells**

Taylor Smith, Justin Hendershot, Katie Karkoskiak, Eva Ruzics, Moustafa Selim, Hannah Kaluhiokalani  
Sponsor: Michael Edelbrock

An investigation of two media seria to compare tumor cell culture ability in this study. Comparison is made by measuring doubling time of melanoma and colon cancer cells. Cells are seeded at separate densities and recovered at different time points. A t-test determines presence of a statistical difference in doubling time between cell lines.

Poster: 7

**Take a Stride in Our Shoes**

Jamie Saum, Elise Krueger  
Sponsor: Guofen Yu

This study focused on the effects of increased heel height of footwear on stride length and gate speed. Our data explains the high heel phenomenon of having to keep up with someone wearing lower heeled shoes.
Poster: 8

**Oviductal Fluid Supplementation during Maturation and Fertilization Improves In Vitro Embryonic Development in Pigs**  
Ashley Goldacker  
Sponsor: Brian Whitaker

Oviductal fluid has a major role in the maturation of gametes and the process of fertilization. This study analyzed the effects of oviductal fluid, 1% or 5% (v/v) supplementation during oocyte maturation and in vitro fertilization (IVF) on oocyte maturation, spermatozoa and fertilization characteristics, and early embryonic development rates.

Poster: 9

**Study Abroad - Panama**  
Andrea Lohr  
Sponsor: Rachel Gerber

This summer I spent two months interning for a spay and neuter clinic in Panama City, Panama. Through my time in SPAY Panama, I gained invaluable experience preparing animals for surgery as well as the proper care afterwards. I also saw a large part of the country when the clinic traveled to rural areas nearly every weekend for their sterilization events. Outside of the clinic, I met local university students who showed me their school system as well as included me in many of the cultural events going on around the city. While living abroad, I learned more about myself then I thought possible and came to understand why so many universities and employers look so highly upon those that have studied internationally. It is an experience I will treasure and strongly encourage others to consider.

Poster: 10

**Effect of Shoe Type on Center of Pressure During Squatting Exercise**  
Gaige Rassman, Zachary Newman  
Sponsors: Edward Nyman, Guofen Yu

Participants performed multiple squat exercises of varying external weights under three different shoe conditions (barefoot, with running shoes, and with weightlifting shoes) while center of pressure (COP) for both feet was measured at 1000 Hz. Derived COP pressure data was trended for differences between shoe conditions during squatting.

Poster: 11

**How Microglia Affect Brain Regeneration in Adult Zebrafish**  
Lauren Schaper, Marinna Mercer  
Sponsor: Kaia Skaggs

Microglia, resident inflammatory cells of the brain, stimulate neuron regeneration after injury in adult zebrafish but the signals that prompt neurogenesis are not known. We use real-time pcr and immunohistochemistry to examine candidate molecules that microglia might use to stimulate neural stem cells to proliferate and make new neurons after injury.

Poster: 12

**The Effect of Microglia on Neuronal Regeneration through Inhibition of Colony-Stimulating Factor 1 Receptor in Adult Zebrafish**  
Andrea Kirkpatrick, John Davis  
Sponsor: Kaia Skaggs

The overall goal of this study is to examine the role of microglia in regeneration of neurons after injury within adult zebrafish brains. The study seeks to determine the period when microglia are necessary, the signals they use, and how to control their activation for neuron regeneration following injury.

Poster: 13

**Can Attention in Film be Influenced by an Individual’s Engagement in the Film?**  
Taylor Simonson, Karissa Payne  
Sponsor: Adam Larson

Research has shown that attention within an image is directed by the task. However, eye movement research has shown that during films people are looking at the same place, suggesting viewers have little control over their attention. The current study seeks to determine if viewer’s attention is influenced by film engagement.

Poster: 14

**Reliability of Concussion Assessment and Management Practices of Certified Athletic Trainers**  
Ashley Wagner, Colleen Coombs  
Sponsor: Sue Stevens

In 2010, NCAA passed legislation in all three divisions of college athletics, requiring institutions to develop and maintain polices to assist the sports medicine team in identifying and managing sport-related concussions. The purpose of our research is to measure test-retest reliability of the instrument designed by Klozik, Clements, Buss, Stevens, and Stump.
Poster: 15
**The Effects of Stressors on the Shedding of Cryptosporidium Species in Dairy Calves in Findlay, Ohio**
Alison Morey, Sarah Roebuck
Sponsor: Bethany Henderson-Dean

Dairy calves are a common reservoir of the zoonotic disease Cryptosporidium. This parasite can be shed in these calves’ feces for several months and can be transmitted to humans. Previous studies have shown a correlation between calf age and shedding; the relationship between stressors and shedding is this investigation’s focus.

Poster: 16
**In vitro Mutagenic and Genotoxic Evaluation of Artemisinin, Artesunate and Artemether**
Matthew Goodman, David Comshaw-Arnold
Sponsor: Alexander Vaglenov

This study evaluated in vitro the comparative mutagenic and genotoxic effect of artemisinin, artesunate, and artemether through Ames test, cytokinesis-block micronucleus cytome assay (CBMN), and comet assay. Our results indicated a strong genotoxic effect on human lymphocytes detected by the CBMN and comet assays for all three drugs.

Poster: 17
**Effects of Medicated and Control Feed Effects on Weight Gain in Early Gestation Goats**
Catherine R. Fisher
Sponsor: Toree Bova

The current study examined whether decoquinate has a positive correlation with weight gain in goats. Twenty early gestation goats were separated into two groups (n=10) to be fed a medicated or control diet to investigate health effects on weight gain. No treatment effect was observed (p= 0.773) with the medicated feed when compared to the control.

Poster: 18
**Stability of Phenytoin in Solution**
Bret Nau, Logan Ackley
Sponsors: Sandra Earle, Richard Dudley

In an attempt to extend the BUD of parenteral phenytoin prepared in 0.9% NaCl 100mL PB, we sought to determine the stability of the anticonvulsant over a period of 7 – 14 days at two temperatures (4 and 25ºC). We also performed forced degradation of phenytoin using varied conditions (acidic/basic/oxidizing).

Poster: 19
**The Cost of Caring: Secondary and Vicarious Trauma in Service Providers**
Jamie Lehtomaa
Sponsor: Robin Walters-Powell

This study examined both the factors that potentially impact service providers’ psychological health through the provision of services to traumatized populations and the potential impact of Substance Use Disorder on the demand for a variety of services was conducted.

Poster: 20
**American Music Favorites: Comparing Favorite Genres with Frequencies**
Kaitlyn Walker, Olivia Tanner
Sponsor: Guofen Yu

Music is something everyone can relate to, considering how popular it has become. Music has developed into so many different genres that we wondered why people tend to stick to specific types of music. We looked at the frequency spectrum of different genres to see if there is a correlation with the favorite types of music and their spectrums.

Poster: 21
**Protective Effect of Epigallocatechin-3-Gallate (Egcg) on Bleomycin Induced DNA Damage in Human Lymphocytes**
Hannah Robison, Paige Hoffman, Katie Kovach
Sponsors: Alexander Vaglenov, Richard Dudley

Epigallocatechin-3-gallate (CAS 989-51-5) is the main polyphenol present in green tea (Camellia sinensis). It has been reported that EGCG have antibacterial, antiviral, antioxidative, antimutagenic and antitumorogenic effects. Considering the reports on the anticarcinogenic effect of EGCG we recognized the needs to extend the study of the comparative antigenotoxic effects as measured by Cytokinesis-block micronucleus assays in human lymphocytes against known classical mutagen and genotoxican. The aim of this study is to evaluate the protective effects of EGCG in the presence of DNA damage agent bleomycin. Our results clearly suggest that, the EGCG presented in in vitro culture decreased the DNA damage over the entire investigated dose-range, showing a clear protective effect from bleomycin-induced damage.
**Poster: 22**

**Examination of Change in Guitar String Frequency Over Time**
Abby Jokerst  
Sponsor: Landon Bellavia

The objective of this study was to examine the changes in tuning the frequency of guitar strings over time and to determine whether lighter strings change frequency faster than heavier strings. The frequency of each string was measured over the course of two months and the results were analyzed.

**Poster: 23**

**Fetal Age Determination in Lowline Angus Cattle via Ultrasonography**
Taylor Freeman, Ariana Dadario, Rebecca Nordmoe  
Sponsor: Brandon Forshey

Transrectal ultrasonography was used to determine baseline measurements of fetal length, cranium diameter, and placentome diameter for establishing accurate age of the developing fetus.

**Poster: 24**

**Cell Viability of Secondary Metabolites from Fungal Extracts on Human Cancer Cell Lines**
Allison DeGrenier, Abby Jokerst, Megan Millage  
Sponsor: Michael Edelbrock

This project investigated the effects of different fungal extracts on cancer. Various extracts chosen were tested on the human cancer cell lines and the response to the extracts; cell death was analyzed. The objective was to isolate fungal extracts, which lead to high cell death as possible cancer treatments.

**Poster: 25**

**Effects of Squat Technique on Frontal Plane Torque at the Hip and Knee**
Ty Griffith, Drake Luginbuhl  
Sponsors: Edward Nyman, Guofen Yu

This project aimed to compare front and back squat exercises in regards to torque at the knee and hip joints. The squats were performed on in-ground force plates and lower extremity kinematics were collected through a 3-D-motion tracking camera system.

**Poster: 26**

**Effects of Saccharomyces Cerevisiae Supplementation on Body Weight of 12 Horses**
Rebecca Koler, Emily Powell  
Sponsor: Toree L. Bova

The objective of the study was to evaluate supplementation of *Saccharomyces cerevisiae* effects on weight gain of 12 horses. The crossover design had six horses on supplement and six horses on control; after 44 days horses switched. Horses did not have significant weight gain (p>.05) when fed the yeast supplement.

**Poster: 27**

**Enteric Microbiological Evaluation as Bacterial Indicators of Human and Non-Human Source-Point Fecal Contamination in Benthic Nearshore Sediments**
Rebekkah Friske, Conner Livingston, Alexandria Zabiegala, Gina Moschella  
Sponsor: Bethany Henderson-Dean

Lake Baikal, one of the world’s largest freshwater lakes, is experiencing ecological changes that are impacting biodiversity. One of the main causes may be attributed to fecal bacteria contaminants that are being introduced into the lake on a regular basis through septic effluent, shipping routes, or animal sources.

**Poster: 28**

**Alterations in Cancer Metabolism and Pharmacologic Targets**
Edwin Ruppert, Christopher Stang  
Sponsors: Richard Dudley, Ryan Schneider

Metabolic reprogramming is a hallmark of cancer and is observed as a high rate of glycolysis followed by lactic acid fermentation. Several molecules, including 3-bromopyruvate, 2-deoxyglucose, and dichloroacetate, have been shown to target enzymes within these metabolic pathways and diminish cell survival. We seek to observe a synergistic anti-proliferative effect by applying individual metabolic inhibitors with various cytotoxic agents to several cancer cell lines. Inhibition of key metabolic pathways may enhance sensitivity of cancer cells to sub-therapeutic concentrations of commonly used cytotoxic chemotherapeutic agents thereby reducing untoward effects to patients.
Poster Presentations (Continued)

Poster: 29

Predictive Factors for Gait with Plantar Surface Injury Using Kinetic Variables
William Vanscoy, Ryan Queen
Sponsors: Edward Nyman, Guofen Yu

We hypothesize that ground forces will be a predictive measure for plantar surface injuries, and with this knowledge we will better be able to treat these types of injury.

Poster: 30

Do Male Lizards “Man-up” to Compensate for Reduced Sperm Size?
Jeanine Messak
Sponsor: Justin Rheubert

To test the hypothesis that sperm morphology differs in the 2 morphotypes, sperm will be analyzed in Aspidoscelis costata. Data from this study will be used to help elucidate sources of variation in sperm morphology and resource allocation in squamates.

Poster: 31

The Amphibian Reproductive System: An Untapped Source of Variation
Hanna Cook
Sponsor: Justin Rheubert

American bullfrog sperm are transported through seminiferous tubules that are connected to branching vasa efferentia that exit the testis laterally, merge together, and empty into a common duct. This common duct connects with cranial nephrons through the renal corpuscle. Nephrons empty into the Wolffian duct followed by the cloaca.

Poster: 32

Cell Viability of Secondary Metabolites from Fungal Extracts: A Comparison of Three Human Cancer Cell Lines
Skylar Cooper, Lindsey Skinner, Ching-Wen Lin, Hayley Apple, Rachel Renz
Sponsor: Michael Edelbrock

This project hones in on the idea that some fungal extracts are known to have cytotoxic properties and when they are treated on various cancer cell lines, they tend to yield interesting results. We observed colon, melanoma, and cervical cancer cell lines side-by-side to see the comparing and contrasting results they had when treated with various types of fungus. Our work has been exciting thus far, after discovering a potent extract on all three cell lines, and we are continuing our research in hopes to find more.

Poster: 33

Do Topical Homeopathic Remedies Show Equal Efficacy in Reducing Symptoms of Psoriasis Vulgaris as Compared to Topical Prescription Medication?
Ashley Ek, Jessica Hall
Sponsor: Sara Denning

Our study was a literature review that looked at efficacy of reducing symptoms of psoriasis vulgaris. The study compared topical Indigo Naturalis, a traditional Chinese medicine, versus prescription topical dithranol (Anthralin).

Poster: 34

The Effects of Sports Massage in the Equine Athlete
Raeshelle Strobel, Casey Jones
Sponsor: Robin Koehler

Sports massage therapy has been used for years on humans for muscle relaxation and improved circulation of oxygen and nutrients for muscle recovery but is an up-and-coming field in the Equine industry. The objective of this study was to better understand the effect of massage therapy in equine athletes.

Poster: 35

Identification of Multiplex PCR Fragments from Formalin-Fixed Crinoids
Erin Barrett, Rachel Murray
Sponsor: Chris White

This project is focused on determining the phylogenetic relationships of crinoid species belonging to the Oxycomanthus genus by sequencing portions of their mt16S genes. The current stage of the project has been verifying potential primers using PCR, and sequencing those resultant PCR products to explore the phylogenetic relationships within Oxycomanthus.

Poster: 36

The Correlation between Cadence and Leg Length
Xavier Martinez, Jake Adams
Sponsors: Edward Nyman, Landon Bellavia

The purpose of this study was to examine the effect of gait cadence on step length with respect to leg length. It was hypothesized that a positive linear correlation would be derived from the regression of step length on cadence as a function of height.
Supplementation of Fructose On Porcine Sperm Improves Characteristics on Frozen-Thawed Sperm
Emily Winn
Sponsor: Brian Whitaker

My presentation will be a poster including the abstract, methods and materials, results, and conclusion of the experiment conducted by using an alternative energy source for spermatozoa during in vitro fertilization of porcine oocytes.

Fungal Metabolite Extraction and Application on Cancerous Cells
Aaron Baker, Brittany Nault
Sponsor: Michael Edelbrock

Using a new procedure for the extraction of metabolites from within fungi, we have gained access to cytotoxic molecules. The fungal extracts are placed on melanoma and colon cancer cell lines in order to measure the metabolites' cancer fighting abilities.

The Injection of Naloxone Use, Pharmacists' Perceptions.
Christopher Hayes, Catherine Purtill
Sponsor: Erin Thompson

This will be a poster presentation on the perception and implementation of naloxone into pharmacy practice and hopes to answer the questions of how do pharmacists perceive the use of naloxone in their given practice setting? What is the current level of knowledge and confidence of naloxone?

An Assessment of Ultrasound Education in Accredited Physician Assistant Programs
Jonica Schmutz, Julie Ward
Sponsors: Sharon Gentry, Cara Davies

Ultrasound use is rapidly growing in the medical community but little is known about how much ultrasound training physician assistant (PA) students receive during schooling. This project surveyed PA programs about ultrasound education and training for their students in an attempt to determine its presence across the country.

Local Invasion: A Demographic Study of Dreissena Polymorpha at the Findlay Reservoir.
Emily Miller, Darian Gordon
Sponsor: Troy Fagan

Our research team will begin to collect samples of Dreissena polymorpha from the Findlay reservoir in the summer of 2017. The samples will be collected with the use of scuba equipment through interval-spaced quadrant sampling. The data will be evaluated in the fall to determine population demographics.

Design and Synthesis of Bisphenol Z Derivatives as Potential Anti-cancer Agents
Lea Sitzlein, Christopher Stang
Sponsor: Richard Dudley

Bisphenols are known endocrine disruptors. One specific derivative, Bisphenol-Z, has been shown to induce cancer cell proliferation or cell death depending on concentration. To modulate these effects, we have designed and synthesized a series of derivatives which will be tested for potential anti-proliferative effects in various cancer cell lines.

Effect of Telemedicine Services on Patient Adherence
Kristen Merz, Arijeta Osmani, Brandi Hoyng
Sponsor: Erin Thompson

Medication Therapy Management (MTM) services are provided by pharmacists who work with patients to decrease the number of unnecessary medications, monitor for drug interactions, and assess appropriate medication therapy according to patient disease states. This study will evaluate the impact of a student-led telemedicine MTM program on patient adherence.
Poster 44

**The Effects of Different Oocyte Maturation Media on the Production of In Vitro Derived Pig Embryos**

Kaitlin James  
Sponsor: Brian Whitaker

The objective of this study was to determine the effects of the meiosis inhibitor, dibutyryl-cAMP (dbcAMP), media formulation on oocyte maturation, and subsequent IVF and embryo culture success.

Poster 45

**Structure-activity Relationships of Phosphocholine Esters for Anti-cancer Activity**

Matthew Buchfellner  
Sponsor: Shantanu Rao

The goal of these experiments was to determine the phosphocholine ester with the most potent anti-cancer effect. In this poster, as a first year student, I am presenting my initial results from bench research which involved techniques like culturing cancer cells, conducting the designed experiments, and analysis of research data.

Poster 46

**Music Therapy: The Effects on Behaviors in Patients with Dementia**

Jessica Ward  
Sponsor: Robin Walters-Powell

This poster will present a qualitative study looking at the effects of music therapy and behaviors on patients with dementia.

Poster 47

**The Impact of Camp Experiences on Social Skills and the Workforce**

Jill Darrell  
Sponsor: Robin Walters-Powell

This research will consider the impact of the camp experience on the adult and whether or not it contributed to the development of self-esteem, resilience, and adaptability. These are skills needed to be successful in the workforce.

Poster 48

**Study Abroad: Sweden**

Nicolas Parsell  
Sponsor: Rachel Gerber

My presentation includes an introduction to my study abroad experience, the process, the rough start, and how I overcame it. I’ll also talk about events throughout the trip and experiences with my friends, places, and food. I will also share many pictures and what I took away from the trip.

Poster 49

**Parental Demographics and Children’s Nutritional Knowledge: A Relational Study**

Molly Titus, Aiman Khan  
Sponsors: Christi Gierhart, Cara Davies

This study explores the relationship between specific parental socioeconomic factors (household income, highest parental education level, parent’s work industry, ethnicity, child’s school) and children's nutritional knowledge, and if those children demonstrating more nutritional knowledge are more likely to be a healthy weight, as opposed to those demonstrating less knowledge.

Poster 50

**Branding the Right Shoe: Effectiveness of Reducing Landing Impact Based on Shoe Brand**

Amanda Winner, Rachel Schumacher  
Sponsors: Guofen Yu, Edward Nyman

This research was conducted to learn which type of volleyball shoe mitigates the force of a simulated volleyball block jump landing, which, in turn, may reduce the risk of certain chronic loading-related lower extremity injuries.

Poster 60

**Most Common Presenting Symptoms in Rural Guatemala**

Stephanie Fribley  
Sponsor: Brian Cole

Few published records exist of patient encounters in rural Guatemalan clinics. The goal of this study is to identify the most common presenting symptoms in four Guatemalan clinics run by a medical team from the U.S. This will allow future teams to anticipate needs of those treated in rural clinics.
**Poster: 61**

**Do Primary Care Providers in the Private Sector Obtain a Military History in Order to Assess Mental Health in Current and Past Military Personnel?**  
Morgan Neiheisel, Brittaney O’Brien  
Sponsor: Sharon Gentry

This study focused on health care providers in the private sector who are providing care for current military personnel or veterans. Online and mailed surveys were used to collect information regarding mental health evaluations in Michigan, Ohio, and Illinois. Surveys were interpreted using frequency analysis.

**Poster: 62**

**Predicting the Effectiveness of Assertive Community Treatment in Severe and Persistent Mental Health Patients**  
Genevieve Livecchi  
Sponsor: Robin Walters-Powell

This research project is a secondary analysis of the effectiveness of assertive community treatment in previous cases to predict future outcomes for severe and persistent mental illness clients.

**Poster: 63**

**Assessment of the Efficacy of Hancock County SNAP-ED Program**  
Michael Armstrong, Elizabeth Dachenhaus, Andrew Toller, Daniel Trumbull  
Sponsor: Cara Davies

This presentation includes an introduction to the current state of childhood obesity in the United States. It will then discuss the results of a survey administered to 300 students before and after completion of an exercise and nutritional program. A supplemental workbook was developed as well and will be presented.

**Poster: 64**

**Synthesis of Anthradithiophene Derivatives**  
Meri Cizmar, Ching-Wen Lin, Kevin Alexander Lewis  
Sponsor: Nathan Tice

The most commonly employed materials used for production of LEDs are inorganic semiconducting materials, which are efficient, their production is costly, tedious, and hazardous for the environment. Alternatively, organic compounds have attracted attention as potential materials for usage in light-emitting diodes and photovoltaic cells. This presentation will discuss the theory and applications of molecular-based electronics and our current work towards the creation of thiophene conducting materials.

**Poster: 65**

**Medication Adherence Among University Students**  
Matthew Houdi, Joe Dwomor, Douglass Agobin, Yahya Al Ansari  
Sponsors: Timothy Burkart, Donald Hart

The purpose of this study is to gather baseline data regarding student prescription medication adherence through a survey and also analyze the data to determine what specific factors may correlate to overall adherence. We will utilize the data to perhaps provide effective recommendations to maximize therapeutic outcomes.

**Poster: 66**

**Do Parents See the Benefits of the Mandated Services Provided by Hannah’s House?**  
Carrie McKee  
Sponsor: Robin Walters-Powell

This research will investigate whether or not parents see the benefits of supervised visitation programs, supervised exchanges, and parenting and co-parenting classes. These programs are often mandated and rarely voluntary. A study will be completed to see if parents are in fact seeing the benefits of the program.

**Poster: 67**

**Brace Yourself or Break Yourself**  
Sarah Klass, Alexis Locke  
Sponsor: Guofen Yu

The presentation will include pictures of the progress during the experiment and the final results of the project. We will have our set up displayed to show how the chicken bones were placed and to show the different methods of protection for the bones.

**Poster: 68**

**Blood Spatter: A Bloody Compass**  
Ashley Stine, Latisha Pipes  
Sponsor: Guofen Yu

Sometimes at a crime scene, criminal investigators will encounter blood spatter. From the blood spatter, the direction of the hit and the angle can be determined. The pattern depends on whether the person was laying down or standing up. The results of the analysis of these various patterns will be revealed.
Poster 69

**A Systematic Review of Tendon Injuries Associated with Fluoroquinolone Antibiotics**
Dylan Atkins, Kyle Gidlow, Audrey Urban
Sponsor: Bradley Shinn

This project presents results of a comprehensive literature review of fluoroquinolone-induced tendon injuries with the goal of informing health care practitioners who may be positioned to educate both prescribers and patients about the risk factors for this serious drug-induced complication.

Poster 70

**Bienvenidos a Buenos Aires**
Jacob King
Sponsor: Julia Perez-Gamboa

The student will be presenting about his five months spent studying in Buenos Aires, Argentina and his experience living in the country.

Poster 71

**The Effect of Decoquinate on Coccidiosis Rates in Early Gestation Goats**
Jake A. Eier, Catherine R. Fisher
Sponsor: Toree L. Bova

The objective of this study was to examine the effects of decoquinate on coccidiosis rates in early gestation goats. Data was analyzed through the GLM procedure in SAS with significance level P < .05. Results indicate that decoquinate reduced rates of coccidiosis (p=.0011) and overall decreased oocysts numbers.

Poster 72

**Effects of Glucuronic Acid and N-Acetyl-D-Glucosamine Supplementation on the Perivitelline Space during the In Vitro Maturation of Porcine Oocytes**
Jaelyn Current
Sponsor: Brian Whitaker

This presentation investigates the drastically low fertilization rates seen in in vitro experiments using porcine oocytes as our model. This experiment looks at minimizing polyspermic penetration by increasing the perivitelline space thickness through the supplementation of its hyaluronic acid components, glucuronic acid and N-acetyl-D-glucosamine during maturation.

Poster 73

**Screening of a Small Flavonoid Library for Anti-Cancer Activity Against Glioblastoma**
Ashton Faler, Christopher Stang
Sponsors: Ryan Schneider, Rahul Khupse

We previously reported on the cytotoxic effects and structure activity relationship (SAR) of several flavonoids against four diverse human cancer lines. These studies highlighted potent activity against glioblastoma, a particularly difficult to treat brain cancer. Here we present an expansion of this SAR study in two additional glioblastoma cell lines.

Poster 74

**Induction of Apoptosis and Generation of Reactive Oxygen Species by Novel Chalcone Derivatives**
Christopher Stang, Brian Schuler, Ashton Faler, Bryce Adams, Amanda Eichel, Matt Dick, Cassandra Orahood, Tawna Whited
Sponsors: Ryan Schneider, Rahul Khupse

We previously reported the anti-cancer activity of several flavonoids against four diverse human cancer lines. Here we expand upon these results by screening two new flavonoid analogs. Results from investigations into the cellular response and mechanism(s) of death following treatment with the flavonoid derivatives will also be presented.

Poster 75

**Modulation of Autophagy Proteins in Response to a Compound Designed as a Sigma-2 Receptor Agonist Derived from Tamoxifen**
Christopher Stang, Brian Schuler, Bryce Adams, Ashton Faler
Sponsor: Ryan Schneider

This project examines the anti-cancer effects of a proposed Sigma-2 receptor agonist, SP-1, which is structurally similar to tamoxifen. SP-1 has demonstrated comparable cytotoxicity in four diverse human cancer cell lines. Results from investigation into cellular death mechanisms including apoptosis and autophagy will be presented.
Poster: 76

**A Qualitative Study of Peer-Led Support and Trauma Recovery**
Bailey Kerr
Sponsor: Robin Walters-Powell

Peer-led support groups are used to assist with individuals working through the trauma recovery process. The purpose of this qualitative study is to explore the benefits of peer-led recovery in various populations affected by trauma. Information from support group participants will be assessed to identify possible outcomes of this approach.

Poster: 77

**A Comparison of Japanese and US Pharmacy Practice Settings: Inpatient, Outpatient, and Academia**
Damon Bodenhorn, Eunyoung Na, Paige Hoffman, Rebecca Reeve, Andrew Shepherd
Sponsors: Tonya Dauterman, Melinda Fleegle

Five pharmacy students and two faculty members traveled to Kyushu University of Health and Welfare in Nobeoka, Japan to investigate the differences between the US and Japan in the pharmacy inpatient and outpatient settings as well as academia. There were validated differences in the practice areas between the two countries.

Poster: 78

**Combatting Chemical Dependency: A Community Effort**
Mackenzie McClure, Eric Manning, Bailey Hryczyk
Sponsor: Michael Milks

Local and regional professionals were enlisted to present expert perspectives on substance abuse issues to an audience of community members and students. The goal of the course was to discuss the problems and explore potential solutions. Assessment surveys were used to gauge the audience's comprehension of the material.

Poster: 79

**Education, Knowledge, and Attitudes about Medical Marijuana: A Survey of Ohio Pharmacy Students on Attitudes and Knowledge Regarding Medical Marijuana and Survey of Colleges of Pharmacy in States Where Medical Marijuana is Legal Regarding Level of Education on Medical Marijuana**
Jeff Berner, Tara Barnes
Sponsor: Deborah Berlekamp

We will assess attitudes and knowledge of students of pharmacy between education levels to see if some formal education is needed to address medical marijuana and ask deans of colleges of pharmacy if they have classes that are teaching about medical marijuana.

Poster: 80

**Identification of Sagittal Plane Kinematics Associated with Peak Knee and Ankle Joint Torque during Front and Back Squat Exercises**
Kenidi Ulm, Graham Copus
Sponsors: Guofen Yu, Edward Nyman

The squat is considered a complete lower-body exercise because it utilizes many muscles in one motion. However, the medical community has associated the squat with the number of injuries epidemiologically attributed to it. This study determined the sagittal plane knee and ankle angles associated with the highest relative joint torque.

Poster: 81

**Exploration of the Possible Relationship between Trauma and Homelessness using Adverse Childhood Experiences (ACE) Scores**
Kelsey Baldwin
Sponsor: Robin Walters-Powell

Critical phases of the life course shape individuals for transition into adulthood. The Adverse Childhood Experiences (ACE) study measures childhood trauma and produces a score based on the experience of each person. This study will examine the possibility of trauma as a direct link to homelessness by utilizing ACE Scores.
**Poster: 82**

**Asimina Triloba Extracts Have Little Influence on the Structure and Diversity of Surrounding Vegetation.**

McKinsey Rohr, Emilie Blissenbach  
Sponsor: Benjamin Dolan

*Asimina triloba* (pawpaw) is a small deciduous tree native to the eastern United States. This experiment investigated the possible allelopathic effects of *A. triloba* on surrounding plant life. Leaf extract from ten *Asimina triloba* trees were exposed to *Lactuca sativa* and *Lonicera maackii* seeds to test the effects on seed germination and growth.

**Poster: 83**

**Propel Ohio: Childhood Poverty, Health, and Hunger**

Robert Beebe, Saori Imaeda, Brecken Schaller  
Sponsors: Robert Braylock, Crystal Weitz

This poster presentation will recap the Propel Ohio conference, focusing on issues surrounding childhood poverty in Ohio, possible solutions to those issues, and possible ways that we as a campus community can contribute to making a difference.

**Poster: 84**

**Assessing Patient Perspective Regarding Bedtime Dosing of Anti-hypertensive Medications**

Danielle Danso, Ashley Anugwom, Kihara Couvertier, Omuwa Kerobo  
Sponsors: Laura Perry, Suzanne Surowiec

We will present a poster that discusses the methodology, results, discussions, and conclusions of our research based on the data we collected.

**Poster: 85**

**Deceptively Unhealthy Foods**

Marla Schroeder  
Sponsor: Allison Kiefner-Burmeister

College students filled out demographics on their eating habits and were asked questions about different pictures of foods they were shown. They classified these foods as healthy or unhealthy. Their eating habits and answers were compared to see the correlation between them.

**Poster: 86**

**The Comparison of the Amount of Health Care Hours to Overall Performance in the University of Findlay Physician Assistant Program Measured by GPA**

Anthony Robertson, Tyler Popil  
Sponsor: Richard Hopkins

This study serves to compare the amount of pre-matriculation healthcare experience, including type and amount of hours, to overall performance in the Physician Assistant Program at the University of Findlay, as measured by GPA, to determine if healthcare experience has a positive impact on program performance.

**Poster: 87**

**Effects of Urethral Stricture Diameter on the Pressure Required to Maintain Consistent Urinary Flow Rate**

Conner Livingston  
Sponsor: Guofen Yu

Urethral stricture disease is a narrowing of the urethral lumen, causing resistance to urinary flow rate and producing damaging pressures on the urinary system. Using a simple model, this research project investigated the pressure changes seen in different urethra diameters and how these variances can create serious health complications.

**Poster: 88**

**Comparison of Diabetes Management for Medical Home Patients with an A1c <7% Versus Those with an A1c >7%**

Kelsey Jimison, Kacie Miller  
Sponsors: Debra Parker, Suzanne Surowiec

The purpose of this study was to analyze patient data from a multi-specialty physician office to determine the impact of approach to management of type II diabetes on the A1c of their medical home patients. This study also examined team-based care, medication use patterns, and adherence to preventive care guidelines.
A Survey of CKD Risk Factors in an African-American Community.
Tiffany Anugwom
Sponsor: Bradley Shinn

This study reports the results of a survey conducted in an African-American church population identifying risk factors for chronic kidney disease (CKD). The purpose of this intervention was to identify at-risk individuals and to encourage them to follow-up with health care professionals for further assessment.

Differences in Emotional Intelligence between Undergraduate and Graduate Athletic Training Students
Courtney George, Ryan Hartsel
Sponsor: Joyce Jackson

Emotional intelligence is important to the field of athletic training, because professionals must respond to athletes, all of which may react differently to similar injuries and scenarios. Scenarios an athletic trainer experiences that involve adequate and proficient decision-making include life threatening injuries, unconsciousness, and shock in athletes. The ability to properly handle these situations can improve professional aptitude.

The Effect of Red Maple Leaf Eluate on Germination and Growth of Lettuce Seeds
Kayla Volle
Sponsor: Benjamin Dolan

Allelopathy is a plant’s chemical inhibition of germination or growth of another species. I suspected that red maple tree leaves contained allelochemicals and studied the effect of red maple leaf eluates on germination and growth of lettuce seeds.

Humeral Trochlear Measurements for the Forensic Determination of Sex in Post-Pubertal Skeletal Elements
Rachel Hosie, Ashley Langjahr
Sponsors: Cara Davies, Sharon Gentry

This poster will present a study on whether or not the elements in a human elbow can be used to determine if a skeleton is male or female.

A Retrospective Analysis of the Utilization Rate of Current Stroke Prevention Scoring
Alexis Roe, Rebecca Culbert, Anthony Ferstler, Mikenzie Zullo
Sponsor: Timothy Burkart

This retrospective analysis looked at a single long-term care facility to determine whether CHADS2 or CHA2DS2-VASc were utilized in assessing geriatric patients for stroke risk and if treatment therapy guidelines were followed. A meta-analysis determined CHADS2 is easier to assess patients, but CHA2DS2-VASc is more comprehensive in determining actual stroke risk.

Effects of Shoe Cushioning on Ground Reaction Forces and Knee Flexion Angles in Running
William Mattise, Madaline Hoffman
Sponsors: Edward Nyman, Landon Bellavia

This experiment compared the vertical ground reaction forces and average angle of knee flexion associated with two different styles of running shoes: a fully cushioned style and a zero drop style. The effect of shoe cushioning on running kinetics and kinematics was observed and compared using UF’s laboratory-based MOCAP system.

Homelessness and Disability
Jessica Hartman
Sponsor: Robin Walters-Powell

The homeless population face many disadvantages when struggling with mental or physical disability. The research conducted will further explore these disadvantages using a qualitative approach.

Applying Attachment Theory to Foster Care
Brittany Schindler
Sponsor: Robin Walters-Powell

The purpose of this research is to apply attachment theory to foster care in an attempt to understand the development of attachment styles in foster youth, explore the effectiveness of matching attachment styles to those of foster parents, and determine how foster care can ameliorate attachment styles.
**Moderating Effect of Attachment Styles on Areas of Change within College Romantic Relationships**

Kacie Pohlman  
Sponsor: Andrea Mata

The number of desires for change within a romantic relationship may impact a partner’s relationship satisfaction. Furthermore, previous research has shown that an individual’s attachment style influences their communication within romantic relationships. Therefore, the main purpose of this study is to explore the moderating effect of attachment style on the association between desire for change and relationship satisfaction for each gender. We predict that increases in partner compliance to wanted changes will increase the other’s relationship satisfaction. We also hypothesize that this association will be moderated by partner’s attachment style specifically for preoccupied females and dismissing males. Couples in the experimental group will calculate the top three desired changes and identify the most prominent complaint. Couples in the experimental group will be encouraged to work on areas of change that were identified. A second assessment will occur where each individual will complete the AC and RAS to determine any change.

**Oilers Serving Abroad**

Emma Geis, Chrysta Blechschmid, Rachel Eaton, Aleesa Martin  
Sponsors: Chris Sippel, Crystal Weitz

Established in 2013, Oilers Serving Abroad is a student-led group that serves in the Dominican Republic three times a year. OSA’s mission is to provide opportunities for Oilers of diverse disciplines to serve our global community, learn about culture, establish relationships, and enrich our lives.

**Is Further Education Needed for Immunizers Regarding the Recommendation of Prophylactic Treatment Prior to a Child’s Immunization?**

Dustie Zimmerman, Haley DeCoy, Danielle Roach  
Sponsor: Tonya Dauterman

This poster will present pharmacists’ and nurses’ awareness of the CDC 2014 update discouraging prophylactic acetaminophen or ibuprofen use prior to vaccination. The responses of community pharmacists and nurses were used to determine the need for continuing education on recommending against premedication for vaccination.

**Substance Abuse as It Relates to Pharmacists: A Nationwide Learning Opportunity**

Rebecca Reive, Stacie Recker, Amy Sil  
Sponsors: Chris Hart, Debra Parker

One in six pharmacists will have a substance abuse problem sometime within his or her career. Almost half (42%) of pharmacists apprehended are within the first five years of their pharmacy practice. This research is studying the accessibility of pharmacist related substance abuse in colleges of pharmacy across the United States.

**Design, Synthesis, and Anti-cancer Activity Evaluation of Chalcone**

Kunjal Patel, Rachel Howell  
Sponsor: Rahul Khupse

We are studying chalcones, which are known to have anti-cancer activity. We are trying to modify the chalcone scaffold to have specific activity against brain and skin cancer. Through testing, we found moderate activity of our RK 26 chalcone against brain and melanoma cancer.

**Targeting Glioblastomas Using Glutamine as a Trojan Horse**

Trevor Homan, Brendan Cannon  
Sponsor: Rahul Khupse

We designed and synthesized novel molecules that we believe will eradicate large amounts of malignant, glioblastoma cells from the central nervous system in patients suffering from glioblastoma brain cancer.

**Occupational Therapy/Occupational Therapy Assistant Collaboration**

Catelyn Radalia, Morgan Hoffman, Colton Sayers, Shelby Reindel, Samantha Grippe, Laura Luckey  
Sponsor: Lindsey Buddelmeyer

A collaborative effort between occupational therapy (OT) students from the University of Findlay and occupational therapy assistant (OTA) students from Rhodes State College was created. The purpose of this case study was to establish an occupational therapy intervention plan for a case study patient with metastatic breast cancer.
**Poster: 104**  
**Cultural and Socioeconomic Humility of Pharmacy Students**  
Anthony Delgado, Samantha Szwejbka, Prachie Patel, Celeste Voight, John McCoury  
Sponsor: Sandra Earle  

A survey was developed and administered to pharmacy students to determine their level of cultural humility. Using the demographic data collected, particular experiences will be identified that predict high cultural humility scores. This information will be used to suggest curricular and co-curricular changes.

**Poster: 105**  
**Collaboration in the Treatment of End Stage Renal Disease**  
Katie Poorman, Jessie Harmon, Nicole Motuza, Elizabeth Kniss, Molly Hipsher  
Sponsor: Lindsey Buddelmeyer  

This poster presentation will examine the importance of effective collaboration between occupational therapists and occupational therapy assistants and detail the collaborative treatment plan for a client with end stage renal disease from beginning to end.

**Poster: 106**  
**OT/OTA Case Study Collaboration**  
Madelaine Reynolds, Amy Nitecki, Emma Owens, Terra Soto, Elizabeth Montalvo, Taylor Hamrick  
Sponsor: Lindsey Buddelmeyer  

University of Findlay occupational therapy graduate students collaborated with occupational therapy assistant students from Rhodes State College on a fibromyalgia case study focused on evaluation, intervention, and discharge planning. This practical application highlights the collaboration through strengths and weaknesses and distinguishes the distinct, professional roles throughout the process.

**Poster: 107**  
**OT’s & COTAs: Caseload Collaborations**  
Lauren Jenkins, Christine Sudimack, Kendall Kwiatkowski, Brooke Scherger, Kaci Miller, Lauren Illencik  
Sponsor: Lindsey Buddelmeyer  

University of Findlay occupational therapy students and Rhodes State College occupational therapy assistant students collaborated to examine the professional relationship between the two professions throughout the OT process in evaluation, goal planning, and intervention. The Model of Human Occupation guided the multiple sclerosis case study.

**Poster: 108**  
**Collaboration in Occupational Therapy**  
Kristen Wooten, Kelsey Dager, Patrick Walker  
Sponsor: Lindsey Buddelmeyer  

In today’s healthcare system, collaboration is essential for the success and productivity of healthcare providers. In the realm of occupational therapy (OT), collaboration between the OT practitioner and occupational therapy assistant (OTA) is a high priority. This collaborative relationship will be demonstrated through the use of a case study.

**Poster: 109**  
**Comparative Study of Pharmacy Education and Pharmacist’s Role in the U.S. and India.**  
Caleb Wright  
Sponsors: Chandra Sekar, Gregory Reardon  

The purpose of this poster is to review the current education requirements to become a pharmacist in India and the U.S., and what changes can be made to improve the consistency and clinical knowledge needed to maximize the roles of practicing pharmacists throughout hospitals andretails in both countries.

**Poster: 110**  
**Thyroid Medication Therapies in Patients**  
Alexandra Van Hoy, Morgan Barnum, Alexis Gremling, Taylor Allen  
Sponsor: Charles Mosler  

The purpose of conducting this study is to look for correlations between the dose of thyroid medication each patient is taking and how they are taking it. We conducted surveys consisting of questions regarding participants’ thyroid medication. Our goal is to find areas for pharmacist intervention to improve patient outcomes.

**Poster: 111**  
**The Effects of Spatting Compared to Traditional Taping on Ankle ROM, Vertical Jump, and Agility in NCAA Division II Football Athletes**  
Kelley Lacey, Jack Homan, Amanda Burnard  
Sponsor: Edward Nyman  

This study examined the effects of spatting versus traditional ankle taping on performance of vertical jump, shuttle run, and available ankle range of motion during on-field and laboratory-based simulated athletic performance. Results were trended statistically to evaluate effectiveness of ankle spatting against traditional taping methods.
Poster: 112

**National Student Leadership Diversity Convention- New York City 2016**  
Kaleb Brown, Tyler Adkins, Maureen Reiser, Forest Miller  
Sponsors: Skylar Mettert, Robert Braylock

In November, we had the opportunity to attend the National Student Leadership Diversity Convention in New Jersey. The NSLDC is the largest national gathering of student leaders to address many of the critical topics regarding diversity and social justice issues challenging college campuses and our nation.

Poster: 113

**Psychosocial Health in College Students: Influence of Gender and Weight Status**  
Caitlyn Murphy  
Sponsor: Allison Kiefner-Burmeister

The relationship between perceived stress and health outcomes among college students has been extensively researched. We furthered these concepts and explored how social support and perceived stress impacted health outcomes for college students. Universities may be able to design programs aimed at increasing social support and decreasing perceived stress.

Poster: 114

**A Correlation Study to Predict Skeletal Lameness in Equine Athletes**  
Rudy Skrypnyk  
Sponsor: Robin Koehler

Poster presentation will focus on a correlation study using cannon bone circumference and other factors to predict skeletal lameness in equine athletes.
### Oral Presentations

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