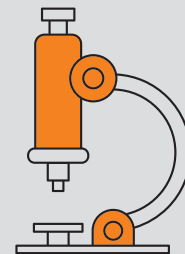
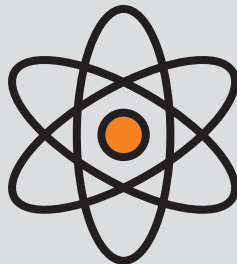
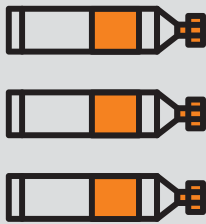
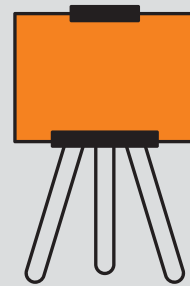


# Symposium for Scholarship & Creativity



April 12, 2024  
8:30 a.m. – 5 p.m.

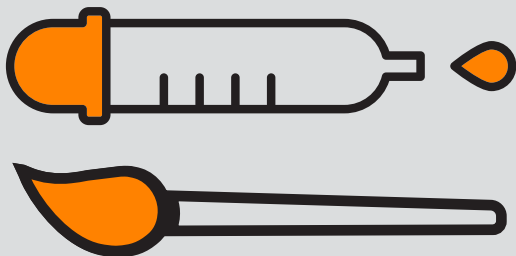


University of Findlay®

**SYMPOSIUM**



**FOR SCHOLARSHIP & CREATIVITY | 2024**



# Contents

<b>2</b>	Schedule of Events
<b>3</b>	University Awards Ceremony
<b>4</b>	College of Education Honors and Awards
<b>5</b>	College of Health Professions Honors and Awards
<b>7</b>	College of Sciences Honors and Awards
<b>8</b>	College of Business Honors and Awards
<b>9</b>	College of Arts, Humanities, and Social Sciences Honors and Awards
<b>11</b>	College of Pharmacy Honors and Awards
<b>13</b>	College Speakers' Biographies
<b>16</b>	Oral Presentations: 1 - 1:20 p.m.
<b>17</b>	Oral Presentations: 1:30 - 1:50 p.m.
<b>19</b>	Oral Presentations: 2 - 2:20 p.m.
<b>20</b>	Oral Presentations: 2:30 - 2:50 p.m.
<b>22</b>	Oral Presentations: 3 - 3:20 p.m.
<b>24</b>	Poster Presentations: 3:30 - 5:00 p.m.
<b>49</b>	Index
<b>52</b>	Special Thank You

# Schedule of Events

8:30 – 8:50 a.m.	<b>Welcome &amp; University Awards Ceremony</b> <i>Dr. Katherine Fell</i> <i>Dr. Darin E. Fields</i>	WTS
9 – 10:10 a.m.	<b>College of Education</b> <i>Dr. Julie McIntosh</i> <b>Alumni Speaker and Awards</b> <i>Mr. Addison Hilkert</i>	Old Main, Ritz
9 – 10:10 a.m.	<b>College of Health Professions</b> <i>Dr. Richard States</i> <b>Alumni Speaker and Awards</b> <i>Mr. Kaleb Brown</i>	Davis, 2225
9 – 10:10 a.m.	<b>College of Sciences</b> <i>Dr. Lok C. Lew Yan Voon</i> <i>Ms. Samantha Gourley</i>	WTS Alumni Speaker and Awards
10:15 – 11:25 a.m.	<b>College of Business</b> <i>Dr. Kirby Overton</i> <b>Alumni Speaker and Awards</b> <i>Mr. Mark Inkrott</i>	Old Main, Ritz
10:15 – 11:25 a.m.	<b>College of Arts, Humanities, and Social Sciences</b> <i>Dr. Ronald Tulley</i> <b>Alumni Speaker and Awards</b> <i>Dr. David Gall - Maynard</i>	WTS
10:15 – 11:25 a.m.	<b>College of Pharmacy</b> <i>Dr. Debra Parker</i> <b>Alumni Speaker and Awards</b> <i>Dr. Rachel Toothman</i>	Davis, 2225
1 – 3:20 p.m.	<b>Oral Presentations</b>	Davis & CBSL
3:30 – 5 p.m.	<b>Poster Presentations</b>	Croy
3:30 – 5:20 p.m.	<b>Reception</b> <b>Food, Raffle &amp; Prizes</b>	Croy

# University Awards Ceremony

## Founders' Son and Daughter Awards

*Presented By: Brandi Laurita, Vice President for Student Affairs and Athletics*  
Chole Moltzen and Kaitlin Conway

## Kuenzli-Harada Scholarship

*Presented By: Mr. Greg Mott*  
Van Quan Nguyen "Fluffy"

## Mancuso Award

*Presented By: Jim Givens, Director of Athletics*  
Tim Stollings and Paige Emmett

## Student Workers of the Year

*Presented By: Mariah Schroeder*

### Undergraduate Nominees

Grimes, Jordan	Community Service
Majidi, Alireza	Critical Thinking
Kolb, Brayden	Critical Thinking
Schang, Katelyn	Critical Thinking
Giese, Elizabeth	Leadership
Purvis, Lacey	Leadership
Bess, Malea	Leadership
Purves, Cora	Leadership
Bucaro, Paulina	Technology & Innovation

### Graduate Nominees

Alagandula, Akhila  
Freehoffer, Alexandria  
Ellis, Kaylee  
Emnett, Paige  
Cummings, Eliot  
Temple, Xavier  
Jackson, Jeremiah  
Ray, Kylie  
Smart, Shelby  
Patel, Darshan

### Undergraduate Winners

Bucaro, Paulina	Technology & Innovation
Purves, Cora	Leadership
Kolb, Brayden	Critical Thinking
Grimes, Jordan	Community Service
Bucaro, Paulina	Overall SEOTY

### Graduate Winner

Alagandula, Akhila

## The Honor Society of Phi Kappa Phi Chapter 310

The Honor Society of Phi Kappa Phi Chapter 310

### Freshman

Bacher, Mackenzie	Bartlett, Sara
Eicher, Macie	Kemmerling, Grace
Matsumoto, Remon	Miyahara, Yuki
Williams, Andrew	Wright, Aidan
Jones, Francis	Krieger, Charles
Kovacevic, Anamarija	Barry, Brinlee
Chalfin, Emma	Zechman, Molly
Campbell, Bradley	Davies, Anna
Kemmerling, Brooke	Reinhart, Sarah
Susi, Katie	Underwood, Ethan
Wilson, Eyan	Brak, Ella
Ferraro, Rosalynne	Heidrich, Kylin
Knippen, Haven	Laskowski, Madelyn
Lowers, Anna	Martin, Taryn
Reed, Rachel	Spicher, Brynn
Taylor, Sydney	Mears-Bentley, Emily

### Sophomores

Furge, Sidney	Higgins, Citalee
Rybicki, Jenna	Tuttle, Maggie
Vennekotter, Brooke	Waxler, Austin
Dye, Hayley	Derstine, Simon
Benroth, Lauren	Heintsche, Grace
Huff, Danielle	Jacobs, Cassadie
Langhals, Roy	Mizelle, Amelia
Antal, Alexy	Barton, Lilie
Bohman, Ashlyn	Cressy, Jacob
Phillips, Victoria	Scott, Kjerstin
Sigmon, Ashley	Snyder, Emily
Billier, Kyle	Charnas, Alexander
Berg, Mille	Conrad, Cassidy
Heuing, Grant	Jones, Haley
Keener, Bruce	Koenig, Morgan
Lynch, Emma	Pickering, Olivia
Seidel, Megan	Treglia, Bella
Noble, Sydney	

# College Honors and Awards

## College of Education Honors and Awards

9:00 – 10:10 a.m. – Old Main, Ritz

### **Outstanding Teacher Education Graduate Primary**

*Presented By: Dr. Melissa Recker*

Gavin Ritter

### **Outstanding Teacher Education Graduate Intervention Specialist**

*Presented By: Dr. Carrie Wysocki*

Lea Pessell

### **Outstanding Teacher Education Graduate Dual Primary/Intervention Specialist**

*Presented By: Dr. Carrie Wysocki and*

*Dr. Melissa Recker*

Kelsey Kennon

### **Outstanding Teacher Education Graduate Middle Childhood**

*Presented By: Dr. Antonio Davis*

Caitlyn Maag

### **Outstanding Teacher Education Graduate Adolescent/Young Adult**

*Presented By: Dr. Antonio Davis*

Lilly Ahmed

### **Outstanding Teacher Education Graduate Multi-Age**

*Presented By: Dr. Antonio Davis*

Olivia Bakowski

### **Outstanding Teacher Education Candidate Post-Baccalaureate**

*Presented By: Dr. Diana Garlough*

Evan Pitt

### **Outstanding Master of Arts in Education Student Award**

*Presented By: Dr. Chris Moser*

Sharmina Akter

### **Outstanding Doctorate in Education Student Award**

*Presented By: Dr. Jennifer Theriault*

Justin Dennen

### **DeBow and Catherine Freed Academic Scholars Award**

*Presented By: Dr. Julie McIntosh*

Alyssa Johnson

### ***Kappa Delta Pi New Initiates***

*Presented By: Drs. Munger and Theriault*

Karissa Mead

Olivia Miehl

Amelia Mizelle

Ethan Shoemith

Brinlee Barry

Emma Chalfin

Rachel Esselstyn

Rayven Franklin

Reese Geise

Sarah Lewis

Jenna Pitt

Desiree Smith

### ***Kappa Delta Pi Graduating Seniors***

*Presented By: Drs. Munger and Theriault*

Lilly Ahmed

Audrey Dewey

Jessica French

Shaun Hamilton

Maya Hamsher

Kaitlynn Keller

Caitlyn Maag

Karissa Mead

Avery Melroy

Caitlyn Myers

Lea Pessell

Cierra Schwab

Aurel Toska

# College of Health Professions Honors and Awards

9:00 – 10:10 a.m. – Davis, 2225

## **DeBow and Catherine Freed Academic Scholars Award**

*Presented By: Dr. Richard B. States*  
Taylor Thompson

## **Lois Annabelle (Foltz), Frank R. and Sharon G. Milligan Memorial Scholarship, Anatomy, Neuroscience, and Health Sciences Department**

*Presented by: Dr. Cara Davies*  
Savannah Carroll

## **Outstanding Student Award in Anatomy, Neuroscience, and Health Sciences Department**

*Presented By: Dr. Stephanie Born*  
Paige Lucic

## **Outstanding Student Award in Strength and Conditioning**

*Presented By: Mr. Kyle Gilbert*  
Maddie Alexander

## **Mu Iota Chapter of Lambda Nu Inductees Honor Society for Radiologic and Imaging Sciences**

*Presented by: Dr. Susan Watters*  
Teagan Allen                      Zakkary Klinzing  
Taylor Kawa                        Sonya Sabbagh

## **Outstanding Student Award in Diagnostic Medical Sonography**

*Presented by: Dr. Susan Watters*  
Megan Burkett

## **Outstanding Student Award in Echocardiography**

*Presented by: Dr. Susan Watters*  
Erik Heiden

## **Outstanding Student Awards in Nuclear Medicine Technology**

*Presented by: Dr. Susan Watters*  
Taylor Kawa  
Zakkary Klinzing

## **Emerging Student Leader in Occupational Therapy, Doctor of Occupational Therapy Program**

*Presented By: Dr. Tara Griffiths*  
Bailey Rader

## **Occupational Therapy Outstanding Performance – Fieldwork, Doctor of Occupational Therapy Program**

*Presented By: Dr. Tara Griffiths*  
Kaley Frank

## **Occupational Therapy Outstanding Performance – Doctoral Capstone Award**

*Presented By: Dr. Tara Griffiths*  
Shannon Morselli

## **Emerging Student Leader in Occupational Therapy, Master of Occupational Therapy Program**

*Presented By: Dr. Tara Griffiths*  
Brielle Zbydniewski

## **Occupational Therapy Outstanding Performance – Fieldwork, Master of Occupational Therapy Program**

*Presented By: Dr. Tara Griffiths*  
Desiree Jones

College Honors and Awards (Continued)

**Gamma Zeta Chapter of Pi Theta Epsilon Inductees**

**Honor Society for Occupational Therapy**

*Presented By: Dr. Tara Griffiths*

Terra Campbell                      Olivia Koenig  
Chloe Eppley                        Connor Muhlenkamp  
Sydney Ferguson                  Kara Van Doesburg  
Katelyn Hogan

**Outstanding Student Award, Doctor of Physical Therapy Traditional Program**

*Presented By: Dr. Joyce Lammers*

Alli Jacobs

**Emerging Leader Award, Doctor of Physical Therapy Traditional Program**

*Presented By: Dr. Joyce Lammers*

Alli Jacobs

**Societal Impact Award, Doctor of Physical Therapy Traditional Program**

*Presented By: Dr. Joyce Lammers*

Liana Burk

**Most Valuable Peer Award, Doctor of Physical Therapy Traditional Program**

*Presented By: Dr. Joyce Lammers*

Emily Wilson

**Outstanding Student Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**

*Presented By: Dr. Joyce Lammers*

Ericka Sullivan

**Emerging Leader Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**

*Presented By: Dr. Joyce Lammers*

Tie-Melissa Durst  
Amin Dabajeh

**Societal Impact Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**

*Presented By: Dr. Joyce Lammers*

Krista Hernandez

**Most Valuable Peer Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**

*Presented By: Dr. Joyce Lammers*

Amin Dabajeh

**American Council of Academic Physical Therapy Student Honor Society Inductees**

*Presented By: Dr. Joyce Lammers*

Amin Dabajeh                      Hazel Luque  
Benjamin Farrar                  Connor Ohlrich  
Kyle Hrutkay                        Suchita Singh  
Alli Jacobs

**The John R. & Barbara F. Murray Award for Outstanding Academic and Leadership Performance Physician Assistant**

*Presented By: Dr. Richard Hopkins*

Tyler Ebbeskotte

**Eta Theta Chapter of Phi Alpha Inductees Honor Society for Social Work**

*Presented By: Dr. Robin K. Walters-Powell*

Emanuel Durden  
Trista Fintel  
Ashley Haag  
Zoe Maier

# College of Sciences Honors and Awards

9:00 – 10:10 a.m. – WTS

## **Outstanding Senior in Animal Science**

*Presented By: Dr. Farabee McCarthy*

Chloe Moltzen

## **Outstanding Junior in Animal Science**

*Presented By: Dr. Brian Whitaker*

Olivia Ruger

## **Rear Admiral Feightner**

### **Outstanding Student in Chemistry**

*Presented By: Dr. Nathan Tice*

Ms. Anna Meixner

## **Computer Science ACM Horizons Award**

*Presented By: Dr. Helen Schneider*

Xander Rittenhour

## **Outstanding Senior Majoring in Computer Science**

*Presented By: Prof. Craig Gunnett*

Ashton Moore

Adam Hornak

## **Choose Ohio First Scholars – Computer Science**

*Presented By: Dr. Mary Jo Geise*

Grant Bryan

Zachary Mitchell

Hassan Sesay

Owen Styer

## **Applied Security & Analytics Graduate Student of the Year**

*Presented By: Dr. Mary Jo Geise*

Yashwanth Reddy Bolla

## **Tim Barhite Memorial Award for Excellence in Biology**

*Presented By: Dr. Bethany Henderson-Dean*

Chloe Moltzen

## **The William J. Jutte Memorial Award of Excellence in Environmental, Safety, and Occupational Health**

*Presented By: Dr. Kim Lichtveld, Department Chair*

Haley Ritchie

## **Choose Ohio First Scholars - ESOH**

*Dr. Kim Lichtveld, Department Chair*

Parker Duxbury

Gavin Montgomery

Jacob Mitchell

Justin Mulholland

## **E. Gordon Gillespie Excellence Award**

*Presented By: Dr. Kim Lichtveld, Department Chair*

Gabriela Wojtkowiak

## **Outstanding Freshman Majoring in Mathematics**

*Presented By: Dr. Aaron Blodgett*

Delaney Thomas

## **Mathematics Horizon Award**

*Presented By: Dr. Daniel Baczkowski*

Bruce Keener

## **Outstanding Senior Majoring in Mathematics**

*Presented By: Prof. Michael Ellerbrock*

Jessica French

## **Equine Business Management Leadership Award**

*Presented By: Robin Koehler*

Jessica Endecott

## **Kristin L. Slater Outstanding Western Equestrian Student**

*Presented By: Art O'Brien*

Kaitlyn Howe

## **Allison Weber Outstanding English Equestrian Student**

*Presented By: Rusty Miller*

Grace Ransom

## **Horse Club Endowed Scholarship in Memory of Jan Roeder**

*Presented By: Robin Koehler*

Parker Warpula

## **DeBow and Catherine Freed Academic Scholars Award**

*Presented By: Dr. Lok C. Lew Yan Voon*

Abby Underhill



# College of Business Honors and Awards

10:15 – 11:25 a.m. – Old Main, Ritz

## **Outstanding Student in Business**

*Presented By: Eric Stoller*  
Colin Moats

## **Outstanding International Student in Business**

*Presented By: Jaclyn Schalk*  
Marko Priednieks

## **Outstanding Student in Marketing in Memory of Dr. Jones, First Chairman, Division of Business Administration**

*Presented By: Jaclyn Schalk*  
Sarah Scarpill

## **Outstanding BSBM Student Award**

*Presented By: Heather Riffle*  
Jean Davis

## **College of Business ACBSP Undergraduate Leadership Award**

*Presented By: Tuan Le*  
Mary Mulcahy

## **College of Business ACBSP Graduate Student Leadership Award**

*Presented By: Nabarun Ghose*  
Edan Lisseman-Stones

## **Dana Scholars 2023**

*Presented By: Greg Ring*  
McKenzie Hoelscher  
Zach Crane  
Cassie Arnett  
Kara Wolters  
Justin Wilcox  
Kyle Knue  
Hailey Wilson  
Brent Miller  
Don Professori  
Connor Evanich

## **Nu Beta Chapter of Delta Mu Delta International Honor Society in Business**

*Presented By: Dr. Patti Abels and Dr. Scott Freehafer*

### **2023-2024 NEWLY INDUCTED MEMBERS**

Shelby Lynn Benavides  
Priscilla Adelaide Ewudzie-Sagoe  
Zeke E. Halker  
Jenna Brooke Krakomperger  
Matthew William Leydig  
Edan Lisseman-Stones  
Anita Neupane  
Himadriben Pankajkumar Patel  
Sean M. Roan  
Jordan Christopher Stock  
Drashti Dhansukhbhai Sutariya  
Kara Delores Wolters

### **2023-2024 HONORARY MEMBERS**

Paul Worstell

College of Arts, Humanities, and Social Sciences  
Honors and Awards  
10:15 – 11:25 a.m. – WTS

**Campus Leader Award**

*Presented By: Dr. Ron Tulley*

Meghan Burke

**Leader of Tomorrow Award**

*Presented By: Dr. Ron Tulley*

Jada Drees

**Scholar of Leadership Award**

*Presented By: Dr. Ron Tulley*

Ava Doster

**DeBow and Catherine Freed Academic  
Scholars Award**

*Presented By: Dr. Ron Tulley*

Samantha Adkins

**Psychology Student of the Year**

*Presented By: Dr. Jessica LaBuda*

Mackenzie Lape

**2023-2024 Inductees into Lambda Pi Eta**

*Presented By: Dr. Kit Medjesky*

Xavier Marable

Paige Falk

**Outstanding Student in Communication**

*Presented By: Dr. Kit Medjesky*

Paige Falk

**Outstanding First-Year Student  
in Communication**

*Presented By: Dr. Kit Medjesky*

Victoria Hanson

**Pulse Media Student of the Year**

*Presented By: Dr. Kit Medjesky*

Jeremiah Jackson

**Outstanding Senior Communication  
Capstone Presentation**

*Presented By: Dr. Kit Medjesky*

Laura Brito Morgado

**Greenwood Ehr Award**

*Presented By: Dr. Kit Medjesky*

Paige Falk

**G. G. Bruer Award in Creative Writing**

*Presented By: Mr. Dave Essinger and Ms. Melanie*

*Dusseau*

Bella Angel

Lana Gray

Gavin Weber

Shaun Hamilton

**Robert Ewald English Award**

*Presented By: Mr. Dave Essinger*

Aidan Wright

**Honors in English**

*Presented By: Dr. Sarah Fedirka*

Samantha Adkins

Cora Purves

Natalie Wertz

**R. L. Gebhardt English Award**

*Presented By: Dr. Sarah Fedirka*

Dessa Eisenhour

**William J. Wagner Award**

*Presented By: Dr. Judith Lanzendorfer*

Enya Wegner

Taylor Ward

**Richard C. Gebhardt Award for Freshman  
Writing**

*Presented By: Dr. Judith Lanzendorfer*

Giovanna Cestone

Avery Kraus

Lidia Laskova

**Doug Hesse Award for Outstanding Master of Arts in Rhetoric and Writing Student**

*Presented By: Dr. Christine Tulley*  
Erika Gifford  
Emily Kemp

**Sigma Tau Delta Inductees**

*Presented By: Dr. Nicole Diederich*  
Jada Drees  
Godwin Osei  
Aidan Wright  
Dessa Eisenhour  
Sean Steele  
Melissa Risser

**Outstanding Senior in Forensic Science Award**

*Presented By: Dr. Philip Lucas*  
Jessica Suchta

**The Andrew C. Baldrige Memorial Criminal Justice Student of the Year Award**

*Presented By: Mr. Todd Beitzel*  
Vaughn Petty

**Excellence in Religious Studies**

*Presented By: Dr. Darcy Metcalfe*  
Grant Goodfellow

**Outstanding Students in Foreign Languages**

*Presented By: Dr. Nathan Gordon, Dr. Leah Brant, Dr. Hiroaki Kawamura*  
Outstanding Student in Foreign Languages - ASL:  
Malik Better  
Outstanding Student in Foreign Languages - Japanese: Timothy Cunningham  
Outstanding Student in Foreign Languages - Spanish:  
Sara James

**Outstanding Student in Teaching English to Speakers of Other Languages (TESOL)**

*Presented By: Dr. Jennifer Fennema-Bloom*  
Izdhar Alharbi

**Outstanding Student in Spanish Education**

*Presented by: Dr. Jennifer Fennema-Bloom*  
Stephanie Gordon

**Bridging Culture Award**

*Presented By: Dr. Jennifer Fennema-Bloom*  
Desiree Smith

**Friends of Findlay**

*Presented By: Dr. Hiroaki Kawamura*  
Audrey Hess  
Rachel Clark

**Gender Studies Award**

*Presented By: Dr. Kathy Mason*  
Luke Miller

**Gary Lee Cramer Political Science Student of the Year**

*Presented By: Dr. Robert Postic*  
Makenna Hurley

## College of Pharmacy Honors and Awards

10:15 – 11:25 a.m. – Davis, 2225

### **Walgreens Diversity Scholarship**

*Presented By: Dr. Ryan Wagner*  
Francesca Sferrella

### **Walgreens Multilingual Scholarship**

*Presented By: Dr. Ryan Wagner*  
Changlena Delpé

### **Soroptimist International of Hancock County-Virginia Wagner Award**

*Presented by: Soroptimist Representative*  
Francesca Sferrella

### **CVS Health Foundation Standard Scholarship**

*Presented By: Debra Parker*  
Yubizdely Tanguma

### **College of Pharmacy Community Pharmacy Award**

*Presented by: Debra Parker*  
Elizabeth Bockey  
Elizabeth Frazier

### **Donald W. & Patricia Romans Stansloski Scholarship**

*Presented By: Debra Parker*  
Alexander Canaday  
Regan Middendorf

### **College of Pharmacy Founding Dean Scholarship**

*Presented By: Debra Parker*  
Katelyn Harris

### **Ohio Pharmacists Association Award**

*Presented By: Debra Parker*  
Francesca Sferrella

### **Pharmacy Summer Camp Scholarship**

*Presented by: Cindy Fitzpatrick*  
Rayna Rodenkirchen

### **Pharmacy Camp Enthusiasts Scholarship**

*Presented by: Cindy Fitzpatrick*  
Alex Forehand

### **Pharmacy Camp Alumni Scholarship**

*Presented by: Cindy Fitzpatrick*  
Gabriel Reyes

### **Council of Ohio Colleges of Pharmacy Leadership Award**

*Presented by: Ryan Waldschmidt*  
Jacob Holmes

### **Council of Ohio Colleges of Pharmacy Scholarship**

*Presented by: Ryan Waldschmidt*  
Regan Middendorf

### **Bradley Shinn Memorial Scholarship**

*Presented by: Nira Kadakia*  
Sarah Anderson  
Eric Doyle

### **Dallas and Cheryl Sterling Scholarship**

*Presented by: Rick Dudley*  
Courtney Weihrauch

### **John Stanovich Award**

*Presented by: Rick Dudley*  
Gheed Al Jubury

### **Richard and Patricia Dudley Award for Excellence in Pharmaceutical Research**

*Presented by: Rick Dudley*  
Katelyn Harris

**Pharmaceutical Science Research Award**

*Presented by: Rick Dudley*

Alexandria Freehoffer

**Pharmacy Practice Research Award**

*Presented by: Tonya Brim*

Megan Foster

Regan Middendorf

**De Bow and Catherine Freed Academic  
Scholars Award**

*Presented by: Tonya Brim*

Taylor Le

**College of Pharmacy Travel Awards**

*Presented by: Tonya Brim*

Beau Croxton

Francesca Sferrella

Hailey Selders

Kevin Yuen

Olivia Pauly

Sarah Zimmerli

Sydnee Payer

**Introductory Pharmacy Practice Experience  
Preceptor of the Year Award**

*Presented by: Tonya Brim*

Katelyn Markward PharmD

**Advanced Pharmacy Practice Experience  
Preceptor of the Year Award**

*Presented by: Tonya Brim*

Deidre Rohaley PharmD

**Teacher of the Year**

*Presented by: Debra Parker*

Rahul Khupse

**Faculty Scholarship Award**

*Presented by: Debra Parker*

Jason Guy

# College Speakers



College of Education

## Mr. Addison Hilkert

Mr. Addison Hilkert graduated from University of Findlay with a Bachelor of Science Adolescent Young Adult Integrated Science Education in 2012 and received his Master of Arts in Secondary Physics Education from Western Governors University in 2023. “I am a proud native of Findlay, OH, and an alum of Findlay High School. My parents, Steven, and Karen Hilkert, are integral to my life. My family includes my wife, Nicole, and our four wonderful children: Gabe, Carter, Addi, and Asher. Beyond my family responsibilities, I have been deeply involved in gymnastics since 2005, coaching in various capacities, from recreational classes to club and high school girls’ gymnastics teams. My collegiate years at the University of Findlay were marked by active involvement. I served as the vice president of Theta Chi Fraternity, held the role of vice president in physics club, cheered for three years, a member of Euler Math Club, and had the honor of being on the homecoming court in 2010. With a dedicated teaching career spanning 12 years, I have had the privilege of imparting knowledge in four school districts and teaching six different science courses. At present, I am a Biology and Advanced Placement Physics teacher at Lebanon High School. My commitment to education extends beyond the classroom, as I continuously strive to inspire and empower my students to achieve their full potential.”

**Philosophy of Teaching** I promote hands-on learning and collaboration in my classroom. Believing in the potential of every student, I am dedicated to fostering an environment that not only ensures they feel successful but also encourages actual success. My teaching style is engaging, enthusiastic, and entertaining, grounded in real-world experiences. Students quickly recognize my passion for teaching, as I am genuinely invested in their learning journey. I emphasize creating an open and inclusive atmosphere that welcomes and values the expression of all students’ thoughts and ideas.



College of Health Professions

## Mr. Kaleb Brown

Mr. Kaleb Brown is a driven professional with a unique background in healthcare, nonprofit management, international travel, and community service. Kaleb has a bachelor’s degree in healthcare management and a master’s in health informatics. While at University of Findlay, Kaleb served as the service and community engagement graduate assistant and helped to create service opportunities domestically and internationally to further engage students and those that he served in the community. Kaleb’s passion for service led him to serve in the Peace Corps in Ghana, West Africa as a health volunteer as well as teach English to kids and teens in Beijing, China. Now working at the United Way of Hancock County as the community impact director and teaching at University of Findlay in the Master’s Health Informatics Program, Kaleb aspires to contribute to the Findlay community by strengthening, uplifting, and supporting agencies and organizations to improve the lives of everyone.



College of Sciences

## Ms. Samantha Gourley

Ms. Samantha Gourley ('19) is a graduate from the Equestrian Studies department. Samantha graduated with BS degrees in Equestrian Studies-Western-training emphasis and Equine Business Management. She is currently a sales associate for Arthrex Vet Systems based out of Lexington, KY. Samantha sells orthopedics, orthobiologics, and minimally invasive surgical equipment to veterinary surgeons and general practitioners for both large and small animals. Within her role at Arthrex, Samantha covers a territory consisting of five states and one district: Kentucky, West Virginia, Virginia, Maryland, Delaware, and Washington DC. Alongside sales, she also works to detail and demonstrate new products and aids in medical education for veterinary surgeons to learn new techniques.



College of Business

## Mr. Mark Inkrott

Mr. Mark Inkrott is co-founder and partner of UpField Group, a consulting and private investment firm that manages a capital portfolio of privately held companies. Inkrott has led the consulting arm of UpField Group's agriculture, food & beverage, energy and sports sectors for the previous 10 years and serves as CEO of UpField Group portfolio company, Cooler Management. Prior to his business career, Inkrott was a professional athlete in the NFL and Europe where he played tight end for the New York Giants, Carolina Panthers and Cologne Centurions. He earned undergraduate degrees in English and Psychology from University of Findlay, where he was a member of the 1997 national championship team, two-time team captain, and two-time Academic All-Conference standout. Following his career in sports, Inkrott earned an MBA with Honors from Ohio Dominican University. He holds additional certificates in Marketing and Non-Profit Business Management from the University of Notre Dame where he regularly serves as a guest lecturer in the Mendoza School of Business. Mark and his wife Whitney reside in Dublin, OH with their three children.



College of Arts, Humanities, and Social Sciences

## Dr. David Gall-Maynard

Dr. David Gall-Maynard is a Visiting Assistant Professor of English at The Ohio State University at Lima, where he coordinates the Minor in Professional Writing program. His teaching and research interests include apocalyptic rhetoric, environmental rhetoric, religious rhetoric, public rhetoric, and professional and technical writing. His work has appeared in the CEA Critic, Computers and Composition Online, and The Liminal: Interdisciplinary Journal of Technology in Education. When David is not teaching or writing, you can usually find him chasing his three-year old around the house or reading a good book.



College of Pharmacy

## **Dr. Rachel Toothman**

Dr. Rachel Toothman, UF PharmD Class of '17, serves as a Walgreen Healthcare Supervisor, in Northeast Ohio, where she oversees pharmacy operations for 43 locations as an area leader within the region. Rachel has been with Walgreens for over 10 years. During that time, she has risen from working as a pharmacy intern while attending The University of Findlay's College of Pharmacy, to serving as a Pharmacy Manager in Cleveland, to becoming one of their first Market Managers of Health Corner Clinics. Having spent most of her career in the community pharmacy space, she has been deeply involved in the expansion of the services pharmacists can provide in that setting and has a great story to tell about her own experience, career paths, and the changing field of community pharmacy practice. She has a strong passion for pharmacy operations and the pharmacy profession as a whole. Outside of work Rachel and her husband live in a Cleveland suburb with their two dogs, where they love spending time outdoors fishing, hiking, and traveling.



# Oral Presentations

1:00-1:20

DAVIS 181

## Group Therapy Success on Victims of Domestic Violence

*Emanuel Durden*

*Sponsor: Robin Walters-Powell*

The purpose of this study is to explore whether children who have been exposed to domestic violence (DV) are able to gain access and to get the appropriate therapy to recover from the trauma and stressors they have experienced. Depending on the type of DV, and how serious, it will affect clients' graduation rates from therapy negatively. Often children and teens who suffer from DV exhibit behaviors of social anxiety, depression, anger control management, and self-regulation struggles. Group therapy will allow clients to develop the necessary skills and coping mechanisms to function in a socially acceptable manner, despite having traumatic damage to their brains and emotions. This qualitative study utilized secondary data analysis of 25 client files located at the Children's Resource Center in Bowling Green, Ohio to determine whether the identified participants responded well to group therapy sessions as a form of therapy to assist with this type of trauma.

DAVIS 188

## AI and Its Impacts on Humans

*Samantha Rohrs*

*Sponsor: Shane Fudge*

The connection between artificial intelligence (AI) and how it is affecting various human behaviors is increasingly complex and difficult to understand. This study looks at how AI and human activities interact, studying their effects, challenges, and potential future directions. It uncovers the important implications of using AI in different areas like work, education, healthcare, and daily life. It shows how AI is changing tasks, affecting behavior, and shaping opinions in different situations and among different groups of people. The study recognizes that the impact of AI can vary depending on the industry, region, and individual characteristics.

DAVIS 102

## Exploring Covering Systems and Recurrence Relations

*Bruce Keener*

*Sponsor: Daniel Baczkowski*

A covering system is a collection of finitely many residue classes whose union contains every integer. Covering systems have been applied in many problems of mathematics and started gaining popularity in number theory in the 1950s when Hans Riesel used a covering system to prove that there are infinitely many integers  $k$  such that  $k \times 2^n - 1$  is composite for all natural numbers  $n$ . Similarly, Waclaw Sierpinski proved that there are infinitely many integers  $k$  such that  $k \times 2^n + 1$  is composite for all natural numbers  $n$ . This presentation will highlight the development of the Riesel and Sierpinski covering systems, introduce recurrence relations, and explain some current research in recurrence relations and coverings.

DAVIS 186

## Technology: The Effects on Student Learning, Student Behavior, and the Change in Teaching

*Jordan Foster, Cecilia Wurm, Mason Tuttle, and*

*Mackenzi Thompson*

*Sponsor: Julie McIntosh*

As we look into the future of education, technology has grown to a capacity that no one could have expected. This has affected the classroom in numerous capacities but none other than how students learn, their behavior, and a shift in how teachers are actually teaching. All of this technology seems to help the students learn to their full potential, but at the same time, gives students another reason to be distracted while in class. In the end, is this massive use of technology in the classroom having a positive or negative effect on students?

Whitson (CBSL 232)

## **Saving Puerto Rico's Schools**

*Stephanie Gordon*

*Sponsor: Nathan Gordon*

Puerto Rico's schools have suffered major blows in the past decade after numerous natural disasters and education policy changes. Hundreds of schools have closed as the educational system suffers from teacher shortages, lack of material resources, damaged property, power outages, lack of clean water, and so forth. Despite being the 6th largest school district in the US, the island's schools continue to see a decline and will continue to do so without change. Saving Puerto Rico's schools will take time and effort, but innovative places like Casa Pueblo are already helping to power their communities and schools through solar development and holistic teaching opportunities. Also, educators are pushing for improved teacher training and pay to improve classroom learning. There are some things no one can control like when and how natural disasters will strike, but a better infrastructure can be put in place to save Puerto Rico's schools.

Gupta (CBSL 237)

## **Semantics in Translation: The Importance of Both Lexical and Compositional Semantics in the Art of Translation**

*Skylar Wooddell*

*Sponsor: Judith Lanzendorfer*

Learn about the importance of utilizing both lexical and compositional semantics while translating. The presentation will explain the different techniques of translation and feature examples pulled from author Gloria Anzaldua's works written in both English and Spanish. The presenter recently had the privilege of meeting the original translator of Anzaldua's work. While the examples discussed will be translated from Spanish, the presentation will be given in English.

## **1:30-1:50**

Gupta (CBSL 237)

## **Enemies to Lovers, Grumpy/Sunshine, and Everything In Between: A Deep Dive into Popular Romance Books**

*Sarah Vejsicky*

*Sponsor: David Essinger*

From Sarah J. Maas to Tessa Bailey and everything in between, this presentation dives into the most popular books that have taken social media by storm. "Booktok" has been able to influence the market for new books (specifically of the romance genre). What makes these books so appealing to the young adults of the present generation? In this discussion, this phenomenon will be examined through the different themes and character tropes in these popular novels. From two doctors who have to pretend to be dating to save their jobs to a hockey player with a soft spot for his social media manager, let's take a deep dive into the best of "Booktok".

Whitson (CBSL 232)

## **Farming in Puerto Rico: Effects of Hurricanes and Politics on Puerto Rico's Food/Agriculture Economy**

*Olivia Boyer*

*Sponsor: Nathan Gordon*

The current status of Puerto Rican farming is reflected in the recent hurricanes and political economics surrounding food and agriculture. While the role of Puerto Rican farms has fluxed since its original colonialization, the high importation of food compared to growing local food in combination with the highly destructive nature of the recent hurricanes has resulted in food insecurity, astronomical grocery prices, and a disconnect with local farms. Looking further into why and how Puerto Rico's economy is driven by the importation of goods and does not support local farmers well, in addition to understanding how farming techniques may change in reflection of severe weather, will allow a better understanding of ways to improve the way that farming is approached in Puerto Rico. Fortunately, experts and an eager generation of new farmers are actively looking for ways to improve their agricultural economy.

## Oral Presentations (Continued)

DAVIS 188

### **Bridging Worlds: Navigating the Cultural Challenges of UF's International Students**

*Paige Falk*

*Sponsor: Amy Rogan*

This research shines light on the practical and psychological challenges that are experienced by international students as they adapt to a new culture, specifically here at UF. It also delves into professional relationship differences that students may encounter with professors here at UF, compared to their home countries. Furthermore, it investigates how these relational differences may affect students' learning abilities. Some of the elements of this research include the students' feelings of loneliness, how well they feel they belong, language barriers, their attitudes towards their professors here versus at home, and the communication differences within their relationships with professors. These aspects are important as it has a major effect on their general well-being and academic success. Through my own experience being an international student, interviews, scholarly research, and survey, the student's experiences within the host nation will be evaluated. This research also provides insights into the areas where additional support and resources may be needed at UF.

DAVIS 181

### **Success of Services Provided in Board of Developmental Disabilities**

*Zoe Maier*

*Sponsor: Robin Walters-Powell*

Intellectual and developmental disabilities impact many individuals in a variety of environments, and the Wood County Board of Developmental Disabilities is there to support the needs that they may have. This study explored the impact that the services provided to these individuals to determine whether they are beneficial. Using a mixed methods approach, both surveys and interviews were conducted to gather information regarding the impact of services utilized and whether they were perceived as a positive for the client. Services provided that are helpful can impact individuals in a variety of different ways including a positive outlook on life, success in the future, and positive support from other people. The hypothesis supported that the individuals receiving these services would benefit from existing interventions and effective programs.

DAVIS 102

### **Development of Widewater Camp Website**

*Lidia Laskova, Braxton Ledezma, and Malek Better*

*Sponsor: Dominic Wilson*

Widewater Camp is part of a network of over three thousand camps that onboard 325,000 individuals annually. There is a need for inexperienced staff to go through pre-arrival training. We have developed a website that introduces the camp, provides all the necessary information, displays a gallery with multiple pictures, and includes a quiz-like questionnaire to assess the staff's knowledge. The website will serve as an introduction and a part of the training process for new workers. The interactive web page checks and familiarizes new workers with essential knowledge, preparing them for their roles. This project involved creating an engaging, interactive experience using Notepad++ and JavaScript.

DAVIS 186

### **OTES Portfolio: A Guide to Constructing Effective Portfolios**

*Lilly Ahmed*

*Sponsor: Julie McIntosh*

Students that work through the University of Findlay's College of Education curriculum will undoubtedly complete an Ohio Teacher Evaluation System (OTES) Portfolio. This cumulative project is composed of evidence from the field and a rationale on how the specific skill was met while in the field. Skills that are included in the OTES Portfolio include: Focus for Learning, Knowledge of Students, Lesson Delivery, Classroom Environment, Assessment of Student Learning, and Professional Responsibilities. The purpose of this presentation is to help prepare upcoming students to complete this assignment. Tips, tricks, and resources will be shared with teacher candidates.

2:00-2:20

DAVIS 102

### **Website Design for the Millstream Woodcarvers Club**

*Christian Palushaj, Gavon Trubee, Hassan Sesay, and Sidi Bettar*

*Sponsor: Dominic Wilson*

The purpose of the website is to create larger community awareness and increase outreach in Findlay and surrounding communities for the club. The website is designed to be easy to update and modify. The website shows the history of the club, contact information, hours of operation, events, and the goals of the club. It displays multimedia with photos and videos of the activities of the club.

DAVIS 186

### **In the Principal's Chair: An Examination of Entry-Year Mentoring for Novice Administrators**

*Kelly Davis-Meyers*

*Sponsor: Jennifer Theriault*

An all-too-common issue for new school administrators is feeling overwhelmed by the many facets of the job, coupled with a lack of personal support during that steep learning curve. Many Ohio principals are unaware of the mentoring program in existence for new administrators, and there are not enough available spots in the program for the number of new school leaders. Additionally, current practitioners are in the best position to have a voice into what essential elements should comprise a mentoring program for novice leaders. This study sought to discern what principals believe a mentoring program should include, how important they believe mentoring is in that first critical year, and their satisfaction level with Ohio's current mentoring model if they in fact had knowledge of and/or experience with it.

DAVIS 181

### **Family Systems and Chronic Illness**

*Ashley Haag*

*Sponsor: Robin Walters-Powell*

Chronic illness can have negative consequences on individuals if there is not a strong support system in place as a protective factor. Family members also need their own support while assisting their loved ones with navigating this difficult situation. With the diagnosis of chronic illness, it is important that the family has support, strong relationships, and rationalized understanding. This study seeks to explore whether the mental health of the family system is impacted when dealing with chronic illness. Using a mixed method approach, participants were interviewed regarding the family member's mental health status, coping mechanisms, support systems, and how COVID-19 impacted treatment. The data obtained was used to determine if families who are supported suffer less than those who do not have a support system, how families supported the children suffering from a chronic illness, and what coping mechanisms worked best for their personal and religious beliefs.

DAVIS 188

### **Enhancing Organizational Communication in High School and College Athletics: Insights for Aspiring Student-Athletes**

*Devon Holbert*

*Sponsor: Amy Rogan*

My project's primary objective is to provide valuable insights into the dynamics of communication within sports programs, shedding light on the significant differences between high school and college settings. By delving into topics such as academic pressures, coaching expectations, and support systems, the project offers practical recommendations to enhance communication strategies and better prepare aspiring student-athletes for success at the collegiate level.

## Oral Presentations (Continued)

Gupta (CBSL 237)

### **Chicken Fighting and Its Impact on Puerto Rican Culture**

*Amanda French*

*Sponsor: Nathan Gordon*

Animal fighting has been prevalent in Puerto Rican culture since its establishment. Many types of animal fighting have come and gone, but the most extensive is chicken fighting. Chicken fighting has had an extreme impact on the culture of the island. Many Puerto Ricans livelihood relied on chicken fighting whether as a manufacturer of armor for chickens or as a chicken breeder. Due to its bloody nature, chicken fighting has been outlawed or made illegal in almost all countries including the U.S. and Puerto Rico, but not before it became culturally significant.

Whitson (CBSL 232)

### **Passing Through Puerto Rico: An Exploration of the Impact of Paso Fino Horses Following the Islands Discovery**

*Skylar Wooddell*

*Sponsor: Nathan Gordon*

Explore the history of the Paso Fino horse and its influence on the island of Puerto Rico spanning from the time the island was discovered to now. We will touch on the uses of the horse as well as selective breeding and genetic factors marking them as a unique breed recognized worldwide. Some of the highlights include an examination of the breed's conformation, how its influence has spread beyond Puerto Rico's borders, and the popularity it has generated not only on the island, but also for the island. The presenter recently travelled to Puerto Rico after originally conducting the research in a Spanish course at UF. However, the presentation will be in English.

## 2:30-2:50

DAVIS 181

### **Current Economic Issues: Their Effects on the Independent Grocery Industry**

*Jenna Krakomperger*

*Sponsor: Shane Fudge*

The purpose of my study is to address and understand current economic issues occurring today, and research how they are impacting small businesses like independent grocery stores. The economic issues discussed are rising inflation, labor shortages, supply chain disruptions, and the monopolization of supermarkets. In this paper, I also uncover the lasting impacts of the COVID-19 pandemic and how it has played a huge role in the economic issues we are facing. Additionally, this paper discusses the differences and competition between independent grocery stores and big box supermarkets like Walmart, Dollar Stores, and Aldi. This paper unravels the controversy of shopping and supporting small and local businesses within a community versus shopping at big retail supermarkets. Is there a difference in where you shop? In addition, I address the negative impact these supermarkets may be having on independently owned businesses while also diving deeper into the importance that these small businesses have on their community and economy.

Gupta (CBSL 237)

### **That's A Wrap: Creating Inspiration for Characterization in Fiction Pieces Through Music Playlists**

*Sarah Vejsicky*

*Sponsor: Melanie Dusseau*

When it comes to character creation for creative fiction pieces, there are many methods for inspiring a writer to make that perfect character for their story. However, inspiration does not flow freely and sometimes writers find themselves stuck. This presentation explores a tool for character creation and fiction inspiration by discussing how music and playlist creation can be just the trick. This will be a deep dive into lyric examination, song choice, and how best to create a playlist that fits a character, whole work, or arc.

DAVIS 188

### **Exploring the Impacts of Nutrient Intake on Development of Curly Hair Tarantulas (*Tiiltocatl albopilosus*)**

*Jacob Thomas*

*Sponsor: Brandan Gray*

This study investigates the effects dietary nutrient composition on the developmental rates of captive juvenile curly hair tarantulas (*Tiiltocatl albopilosus*, formerly *Brachypelma albopilosum*). Twenty-eight individuals were randomly assigned to four test groups fed prey of different nutritional quality: (1) Dubia cockroaches (*Blaptica dubia*) and darkling beetle larvae (*Tenebrio molitor*) fed with a variety of decaying foods simulating their natural diet, (2) feeder insects fed a grain-based diet, (3) feeder insects fed dog food (high protein), and (4) feeder insects fed dog food and a mineral supplement. Monitoring parameters of growth such as total body length, limb length, carapace width and length, and abdomen width and length provided insights into the development and nutritional requirements of captive curly hair tarantulas. These findings contribute valuable information for tarantula enthusiasts and caretakers and facilitate the optimization of the health and well-being of these and other captivating arachnids in captivity.

Whitson (CBSL 232)

### **The Domestic Violence Epidemic in Puerto Rico**

*Lauren Perry*

*Sponsor: Nathan Gordon*

Over the years, domestic violence has become a prevalent problem across the United States. Puerto Rico, a U.S. territory, is no exception to this issue. Domestic violence has had many negative effects on the women of Puerto Rico, both mentally and psychically. Research has shown that there are multiple reasons contributing to this violence between partners, including natural disasters, the application of the law, and alcoholism.

DAVIS 102

### **Pharmacy Prescription Label Software**

*Owen Styer, Grant Bryan, Zachary Mitchell, and Samuel Luke*

*Sponsor: Dominic Wilson*

We created software that can allow students to make their own prescription bottle labels. This software was made available for the students on the computers in the pharmacy department so they can print prescription bottle labels, simulating an actual lab environment.

DAVIS 186

### **Technology and Language Instruction: A Preliminary Analysis of TPACK Among In-Service High-School World Language Teachers**

*Debra Ponce*

*Sponsor: Jennifer Theriault*

Teachers' beliefs about language and technology, pedagogy, and ability to integrate them can be challenging within the second language classroom. This presentation will discuss preliminary research findings for United States in-service high school world language teachers' technological pedagogical content knowledge (TPACK). Preliminary data analysis will be shared about how demographic variables may influence TPACK in the second language classroom, aiming to identify factors that contribute to variations in teachers' technological and pedagogical competencies in the world language context. Furthermore, this presentation aims to provide insights between teachers' self-efficacy as it relates to the integration of technology through alignment with the three levels of ACTFL performance language descriptors seeking to understand how technology is used to support second language acquisition across the different modes (interpersonal, interpretive and presentational). Ultimately, these findings can contribute to the continued discussion and development of informed strategies for professional development and second language teacher education programs.

## Oral Presentations (Continued)

### 3:00-3:20

DAVIS 102

#### **Raspberry Pi Internet Speed Monitor**

*Keith Doepker, Dominic Hord, Tyler Thomas,  
and Reilly Cozette*

*Sponsor: Dominic Wilson*

Many ISPs fail to meet their guaranteed internet speeds to customers. To mitigate this common issue, a computer system was created to continuously monitor internet speeds and forward a report of average speed data to a text file for a time interval set by the user. The data from the text file will be used to generate a graph that will display the variation in internet speed for each given day. This project is aimed at empowering users to hold ISPs accountable for delivering the agreed-upon service levels. The key features include real-time speed monitoring, automated detection of speed drops, and the generation of graphs to address discrepancies. By automating this process, users can efficiently communicate with their ISPs and foster a more transparent and accountable relationship. Overall, this project seeks to improve the quality of internet services by implementing a user-friendly system that enhances accountability in the ISP-user dynamic.

Whitson (CBSL 232)

#### **Stray Overpopulation in Puerto Rico: How Veterinary Medicine Can Help Lower the Risks Associated with Human and Animal Health**

*Jillian Baracz*

*Sponsor: Nathan Gordon*

The island of Puerto Rico is home to about 3.3 million people as well as their animal companions. Stray animals line the streets and populate the plazas of Old San Juan, Ponce, Loiza Aldea, and other cities of the island. The Puerto Rican culture values its relationship to nature and higher beings, but it does not always value animals as pets as strongly as other cultures do. High rates of abandonment, lack of accessible veterinary care, unstable infrastructure, and an absence of education on zoonotic diseases are all pertinent factors that lead to the stray animal problem in Puerto Rico. This issue threatens both human and animal populations, but there are groups working to curb the risks associated with the misplaced and sick animals. Volunteer veterinarians host spay and neuter clinics, volunteer feeders attend to stray cats in the capital, and groups work to encourage adoption of the stray population.

DAVIS 186

#### **Teacher Perceptions of Restorative Justice Practices in a Classroom Setting**

*Justin Dennen*

*Sponsor: Jennifer Theriault*

As administrators are looking to navigate a new era of education post-COVID-19, some of the biggest challenges arising relate to an overreliance on ineffective punitive discipline and finding ways for students to develop better relationships with their teachers and school community. This has led to more administrators implementing restorative justice practices. Restorative justice is “an approach to discipline that engages all parties in a balanced practice that brings together all people impacted by an issue of behavior. It allows students, teachers, families, schools, and communities to resolve conflict, promote academic achievement, and address school safety” (González, 2012, p. 281). While existing research has shown promise, little research has been done to examine teacher perceptions of the effectiveness of restorative justice practices. This study examined how teachers define restorative justice practices, what practices they use in their classrooms, and the impact on discipline and building relationships.

Gupta (CBSL 237)

#### **The First Rule of Microform Is You Don't Talk About Microform: An Exploration of Four Genres**

*Cora Purves, Skylar Wooddell, Sarah Vejsicky,  
Rebecca Thompson, and Cody Springer*

*Sponsor: Melanie Dusseau*

In Spring of 2024, the Advanced Creative Writing class took on micro-formed genres alongside their teeny tiny mascot, Syd the Spider. Breaking down genres of writing which possess millennia of history into their most minute and concentrated forms was no small task (pun intended). Taking into consideration form, character, word choice, imagery, and scene, the class crafted micro writings in the genres of poetry, fiction, playwriting, and memoir. In an interactive presentation, the class will reveal the ways in which they adapted genres to miniatures.

DAVIS 188

## **Tools and Techniques for Collection of Terrestrial Arthropods in Ohio**

*Meghan Kostka, Amanda Gigante, and Emily Falcone*  
*Sponsor: Abby Kalkstein*

Arthropoda is the largest phylum of the kingdom Animalia, and likewise, these creatures play huge ecological roles. In light of global environmental challenges, arthropod research is as important as ever. However, projects are often limited by the quantity of specimens collected. This review aims to highlight the most efficient methods of collecting terrestrial arthropods with a focus on those species native to Ohio. Included are descriptions of both active and passive methods of collection, illustrations of each trap, and suggestions as to which methods are most useful for particular species. It is hoped that this review will be used as a starting point for researchers looking to establish new investigations involving arthropods and provide guidance in obtaining specimens for their research.



# Poster Presentations

Poster: 1

## Do You Know the Difference?

*Haley Baker and Olivia Harr*

*Sponsor: Nira Kadakia*

Students enter pharmacy programs with varying levels of experience. This can become problematic as pharmacies manage hazardous drugs. Hazardous drugs have potentially harmful side effects to students as they manage them. Some side effects can include birth defects, infertility, increased risk of developing cancer, and more. Teaching about hazardous drugs should be part of medical professionals curriculum, but there is little literature examining this topic and how to teach it to health professions students. As student pharmacists go out on clinical rotations, they must be equipped with knowledge of hazardous drugs and safely handling them to remain safe and reduce the risk of harm. This study aims to evaluate students' knowledge of hazardous drugs before and after an educational video presentation.

Poster: 2

## Growing Mediums and Their Effect on “The Venus Flytrap”

*(Dionaea muscipula)*

*Caleb Acker*

*Sponsor: Lauren Sandhu*

“The Venus flytrap” (*Dionaea muscipula*) is a carnivorous plant which is native to regions of North and South Carolina. These plants are best known for their ability to trap and digest insects as a means of obtaining critical nutrients in their nutrient-poor habitat. Insects are attracted to Venus flytraps by both food smell mimicry and trap coloration. The traps of a Venus flytrap range in color from various shades of green to red, while the flowers are always white. Because of this, the prey insects captured by the Venus flytrap differ from the insects that pollinate the plant. Venus flytraps will be grown in University of Findlay's greenhouse in seven different planting media, including hydroponic conditions. Plant height, trap width, trap depth, and trap coloration and fluorescence will be measured. Prey interactions with the Venus flytraps, based on their morphological traits, will then be studied.

Poster: 3

## Parenting Styles Effect on Transition into the Workforce

*Isabella Murphy-Morrow*

*Sponsor: Shane Fudge*

I will be looking at the topic of “nature vs. nurture,” what parenting styles exist, and how they affect individuals and their values. How parenting styles relate to motivational attributes and attitudes in workers. I will also explore what employers look for in employees and how different parenting styles cultivate similar attributes or what employers look for.

Poster: 4

## Connections Between Musical Tempo and Emotional State

*Jenna Daria, Sienna Garcia, and Sara Neff*

*Sponsor: Jessica LaBuda*

Over the years, there has been a desire to understand music and its influence on emotional state. However, little research has been conducted on how specific components of music, such as tempo, affect an individual. When analyzing literature, tempo (beats per minute) has been found to influence positive/negative emotional state and performance rate, which is what this study focuses on. Individuals rated their initial emotions on the PANAS-X scale, listened to the tempo condition (high, low, none), performed a word recall test with words from the same scale, carried out a word search, and completed the PANAX-S assessment again. There was significance found between initial negative and positive affect, initial and final positive emotional affect, and initial and final negative affect. Also, there was marginal significance between the tempo condition and word search performance, post-negative emotional state, and tempo condition. Results suggest that varieties of tempo within musical compositions can cause significant differences in an individual's emotional state and performance, which can be further utilized within many settings.

Poster: 5

### **The Stresses of Policing: How Job Stressors Impact the Overall Well-being of Police Officers**

*Meghan Burke and Ainslie Lane*

*Sponsor: Robert Postic*

It is well known that those who work in law enforcement experience large amounts of daily and overall stress. As a result, components like officers' physical well-being, substance abuse tendencies, and mental well-being can be compromised due to these levels of stress. With data collected from multiple police departments in different states, these factors were compared to see the type of impact that stress in this job specifically has on the individual worker. Ideally, this research can be used to create future stress prevention methods to help those working for our law enforcement agencies.

Poster: 6

### **Examination of Student and Student-Athlete Self-Efficacy**

*Taylor Banta*

*Sponsor: Jessica LaBuda*

It is common for student-athletes to have poorer mental health when compared to their non-athlete student peers (Zhou et al., 2022). Collegiate student-athletes are expected to maintain nutrition, sleep, and schoolwork, all while devoting a substantial amount of time towards their sport (Lopes et al., 2020). Student athletes also face performance pressure from coaches, family, friends, fans, and themselves (Benson et al., 2015). College students also face similar pressures (Agliata, 2005; Donald, 1998). Performance expectations in combination with factors such as self-efficacy, confidence, and personal identification may influence students and student-athletes mental health. As one's sport or academics can influence identity, which may buffer depression and isolation, one must wonder if this holds true when one is lacking self-efficacy and confidence (Branscombe et al., 1991). The current study sets out to compare rates of self-efficacy, confidence, expectations, identity, and mental health between college students and college student athletes.

Poster: 7

### **Effect of Total Dissolved Solids Concentration on Macroinvertebrate Communities in the Blanchard River Watershed**

*Audrey Buskirk, Taryn Martin, and Lauren Anderson*

*Sponsor: Lauren Sandhu*

Water quality can be determined by the species richness of macroinvertebrates within a water system. Macroinvertebrate communities are impacted by pollutants such as excess sediment and nutrients, which are found in waterways in Northwest Ohio. Water quality parameters such as pH, dissolved oxygen, and total dissolved solids can be measured to evaluate waterway health, in addition to surveying the macroinvertebrate community. Total dissolved solids (TDS) is a measure of organic and inorganic materials in water, including calcium, magnesium, potassium, sodium, nitrates, chlorides, sulfates, carbonates, and bicarbonates. These dissolved solids can occur naturally, or they can be a result of human activities such as agricultural practices, urban development, and pollution. Field data from 2023 was analyzed to evaluate relations between TDS concentrations and macroinvertebrate populations.

Poster: 8

### **Holiday Eating and Food Rules in School Aged Children**

*Sienna Garcia and Mackenzie Bacher*

*Sponsor: Allison Kiefner-Burmeister*

Parents are often seen as the gatekeepers to child feeding, but holidays and class parties can make this difficult. Children also learn how to connect psychologically with food through their parents' food behaviors or rules. This investigation sought to determine how parent "food rules" are impacted by celebration events. In the US, candies and sweets are served for all holidays and often all birthday events in class, making special treats available nearly every week in school. Special care was taken to study how children combating obesity may be differentially impacted by these events. For example, children who are obese may be living under different food rules than other children, leaving them to feel shame if they cannot fully participate. How parents handle this emotional situation is under investigation. Overall, our findings showed that parents differed on how they decided to feed their children and the rules they have in place.

Poster: 9

## **Fungal Metabolite Cytotoxicity**

*Reegan Kehres*

*Sponsor: Michael Edelbrock*

Fungi compete with other microorganisms by releasing chemical defenses such as secondary metabolites to survive in a niche environment. Yeast is a eukaryotic cellular organism that serves as a model for human cells. Fungus that exhibited bioactivity against yeast using the Kirby-Bauer disc diffusion assay were selected to generate extracts for putative activity against human cancer cells. Bioactive fungi were selected and grown in pure culture and in competition with another fungus that similarly displayed anti-mycotic properties. Extracts were prepared from fungus using ethyl acetate as the solvent. Our hypothesis is that extracts from fungus grown in competition with one another will have greater bio-activity against the human colon cancer cells than extracts produced from the same fungus grown in pure culture.

Poster: 10

## **Mental Health Within Pharmacy Students**

*Mouna Dalal*

*Sponsor: Julie Oestreich*

**Abstract Objective:** Examine the literature to determine the percentages amongst pharmacy student dealing with mental health issues such as depression or anxiety. To examine how COVID19 effected learning pharmacy at a graduate level. **Methods:** A literature search in PubMed was done using a combination of key words like "pharmacy students", "mental health", "depression", "anxiety", and "well-being" to populate surveys conducted within different pharmacy curriculums to observe the student's well beings. **Results:** After obtaining several articles, articles concluded stress was observed more in 3rd and 4th year students compared to 1st and 2nd year students. Other studies show that stress was more prevalent in medical student and anxiety was more prevalent in pharmacy students. Several studies show some coping mechanisms students use to cope with depression and anxiety while attending school. Some studies described different ways the school offers to discuss and aid in the student's well-being. **Conclusion:** after conducting a literature search, it was determined that a large percentage of pharmacy students suffer from mental health issues during school. Coping mechanisms and institutional strategies such as mental health classes may improve these findings and should be considered or further researched.

Poster: 11

## **A Bountiful Harvest: Expanding Production in the Campus Hoop House**

*Hannah Tyler*

*Sponsors: Lauren Sandhu and Brandon Gray*

In 2013, a group of students was awarded the Garner Endowment, which facilitated the construction of the campus hoop house in 2014. The hoop house led to the creation of Findlay Greens, which was a student-run business that once sold produce. After sitting fallow for several years, the University of Findlay's hoop house was brought back to life. After a successful growing season in 2023, hundreds of pounds of produce were donated to a local food bank. In 2024, students will work to increase production, increase crop diversity, and continue produce donations. A small fruit orchard will be installed alongside newly researched cultivars of vegetables and flowers. This project aims to improve the UF ecologically-conscious agricultural teaching garden and develop a system which focuses on maximizing yield while maintaining sustainable agriculture practices, such as integrated pest management and companion plantings.

Poster: 12

## **Comparison of Wind Turbine Blade Design on Efficiency**

*Parker Duxbury*

*Sponsor: Justin Richardson*

Through a project in my ESOH-240 Sustainable Energy class we will be creating, with the help of 3D printing, different wind turbine blades and testing them to see what would be the most efficient. Many iterations of designs will be tested in a controlled setting.

## Poster Presentations (Continued)

Poster: 13

### **Dynamics of Small Mammal Resource Partitioning in Ohio Forest Canopies**

Ryleigh Jones, Dillen Curnutte, Laura Miller, Jacob Hodge, Joshua Snay, Melissa Laux, Michael Johnson, Quinn Carter and Madeline Haase  
Sponsor: Benjamin Dolan

This research addresses the gap of knowledge concerning resource partitioning among diurnal and nocturnal small mammal species within temperate forest canopies, emphasizing spatial and temporal dynamics. We want to determine if there is a pattern in how these mammals partition resources over time and what diversity of species is present at various heights. To obtain more information regarding these behaviors, trail cameras were strategically placed at 16 m, 20 m, and 25 m a randomly selected *Quercus rubra* in northwest Ohio. From mid-August through early November photos were taken using motion-activated sensors in the daytime and regular time interval triggers during the night. Photos were analyzed to determine if there was a temporal overlap in activity of southern flying squirrels and diurnal squirrels like red squirrels and eastern fox squirrels. We will use this data to determine the overlap of squirrel access and the diversity index of each camera.

Poster: 14

### **Arthropods and Aborists: Exploring Insect Diversity of Northern Red Oaks**

Michael Johnson, Laura Miller, Joshua Snay, Dillen Curnutte, and Madeline Haase  
Sponsor: Benjamin Dolan

The temperate forest canopy remains a relatively understudied ecological niche, with limited available data on the insect communities inhabiting various heights within this complex environment. To close this knowledge gap, we aim to gather comprehensive data on flying insect diversity in the canopy of *Quercus rubra*. In particular, we seek to determine whether flying insects are distributed evenly throughout the canopy or if they are partitioned the space vertically. Aerial interception insect traps were strategically placed at 16 m, 20 m, and 25 m heights in a randomly selected *Quercus rubra* in northwest Ohio. Over four weeks during autumn, insects were sampled and preserved. Initial data indicate that insects are primarily in the Order Coleoptera, and further analysis will indicate how diversity changes through the vertical strata. Future work includes comparisons with *Q. rubra* canopies distributed throughout the eastern hardwood forest of North America.

Poster: 15

### **Investigating the Anticancer Activity of Norethindrone and Various Novel Synthetic Derivatives in Glioblastoma Cell Lines**

Carson Shoemaker, Elizabeth Frazier, Harbinder Dhariwal, Matthew Mcavoy, Julian Sawaged, and Charity Gottfried  
Sponsors: Ryan Schneider and Richard Dudley

Glioblastoma is an aggressive and often fatal form of brain cancer. Despite modern advancements, glioblastoma remains one of the most difficult cancers to treat. Others have shown that androgen receptor antagonism leads to glioblastoma death in cell culture. Here we sought to evaluate the anticancer effects of a progestin which is thought to bind to androgen receptors, norethindrone, to compare with various norethindrone derivatives. Cell viability was assessed using plate-reader assays including the XTT viability assay or the alamarBlue viability assay. Cytotoxicity of the parent molecule, norethindrone, was assessed alongside the norethindrone derivatives in A-172 glioblastoma cells in order to determine an optimal structure activity relationship by comparing respective IC50 values. Future studies will be performed to investigate potential mechanism(s) of anticancer activity.

Poster: 16

### **The Effect of Education by Pharmacist on Patient Adherence When Taking Trikafta™**

Katie Fauver, Bailee Meeker, Sarah Anderson, and Emily Neff  
Sponsor: Sandra Earle

Trikafta™ has caused a pivotal shift in the care and outcomes of cystic fibrosis patients. “Caftor” drugs are very effective but are subject to drug, food, and environmental interactions while the therapy costs about \$840 per day. The significance of this study is to demonstrate if pharmacist medication counseling improves the patient’s ability to recall and correctly answer questions in a survey related to taking their medication properly and thus provide the best outcomes for their medication regimens and avoid unnecessary costly waste.

## Poster Presentations (Continued)

Poster: 17

### **Pharmacy Student Academic & Professional Performance in Relation to Pharmacy Work Experience**

*Hailey Selders and Jilella Weingart*

*Sponsor: Sandra Earle*

Pharmacy students must retain extensive knowledge of drug applications and cautions; however, this is only some of what is required to make a truly excellent pharmacist. To produce competent and confident pharmacists, students must also develop transferable and interpersonal skills. This retrospective cohort study tested the hypothesis that students with pharmacy work experience will have achieved higher academic and professional performance when compared to those without pharmacy work experience. Data gathered from GPA, top-drug exam scores, CAPE self-report assessment survey scores, and IPPE/APPE evaluation outcomes served to assess the performance of students with and without pharmacy work experience. Data for each assessment was collected and analyzed in a two-tailed T-test. Evaluating the impact and understanding the correlation of work experience on academic and professional performance, this study may better guide pharmacy students towards methods for success.

Poster: 18

### **Barriers within Public K-12 School Systems for Individuals with Disabilities Requiring Service Animals**

*Luke Miller and Alexis Bishop*

*Sponsor: Carrie Wysocki*

The study identifies and documents the barriers that individuals with disabilities face in public K-12 schools when looking to have service animals with students. Furthermore, the policies and practices within public K-12 school systems related to service animals for students with disabilities are examined and compared to the policies and expectations set at the federal-level through the Americans with Disabilities Act (ADA). While some schools are accommodating toward service animals for students with disabilities, the process is not always easy for families. Parents/Guardians are surveyed on their experiences with schools, with interviews conducted at the request of the families, to discuss any barriers they may face. The overarching, long-term goal of this study is to highlight any barriers within school systems that limit service animal access that are necessary and federally-protected accommodations for students with disabilities.

Poster: 19

### **Mathematics and Literature: Foes No More**

*Rebecca Thompson*

*Sponsor: Melanie Dusseau*

Mathematics and literature, two subjects who could not be more different- or so one might think. The truth is, the two have always been integrated. An analysis of varying literature will show references to mathematical foundations, concepts and ideas. Without which, these creative works would not have been possible. The culmination will be how this intertwining has evolved from discrete nods, to a legitimate genre.

Poster: 20

### **Do Producers Think Farmers' Markets are Educational for Children?**

*Samuel Waldman and Sienna Garcia*

*Sponsor: Allison Kiefner-Burmeister*

Farmers' markets may be a tool that could be used in educating children on the origin of their food (Lohr, 2013). Researchers consisting of both students and faculty from University of Findlay visited ten farmers' markets where they surveyed producers on how they felt farmers' markets were being used to educate children on the origin of the food consumed. 29 producers volunteered to participate in the survey. The surveys showed that producers viewed farmer's markets as providing valuable knowledge on food to children.

Poster: 21

### **The Ghost Mantis: How Diet Affects Development**

*Joseph Habra*

*Sponsor: Brandan Gray*

The ghost mantis (*Phyllocrania paradoxa*) is a popular species of insect in the pet trade. However, not much is known about their proper husbandry practices, specifically regarding their food quality. To test whether the protein concentration of the feed given to ghost mantis nymphs affected their overall growth rate and morphology, sixteen ghost mantis nymphs were randomly assigned to two categories from birth: one fed a high protein diet, one fed a low protein diet. Upon each instar transition, total body length, raptorial forelimb length, hindlimb length, abdomen length, and abdomen width were measured and compared using various non-parametric statistical analyses. Results from this study could help improve the understanding of captive care, lifespan, and lifetime reproductive success of ghost mantises, other mantis species within the *Phyllocrania* genus, and beyond.

## Poster Presentations (Continued)

Poster: 22

### **How are Farmers' Markets Perceived by Consumers?**

*Liberty Mahaffey and Samuel Waldman*

*Sponsor: Allison Kiefner-Burmeister*

According to the U.S. Department of Agriculture, farmers' markets may assist in educating children in regard to the source of their food (Lohr, 2013). A total of 10 farmers' markets were visited by faculty and student researchers at University of Findlay to investigate how farmer's markets were being used in children's educational perception of food. Surveys were administered to those consumers at the farmers' markets who volunteered to be a part of the study. A total of 18 consumers volunteered to fill out the survey. The response obtained showed that consumers who were shopping at the farmers' markets thought that farmers' markets were educational for children on the food they ate and where it came from.

Poster: 23

### **Classification of Music Genre**

*Vamsi Kanthi Kiran Deta*

*Sponsor: William Herald*

Music genre classification is a fundamental task for all the music lovers. It includes retrieval and analysis of music information. It involves categorizing music tracks into predefined genres like Rock, Pop, HipHop etc., based on the features like rhythm, melody and harmony. This project explores application of different algorithms for music genre classification using a free dataset, containing audio features of diverse collection of music tracks. The purpose is to investigate the effectiveness of different classification models and feature representations in accurately predicting music genres. The final findings explore the best model for music genre classification. It also provides insights into the performance of analytical techniques in this domain.

Poster: 24

### **Analyzing the Factors that Influence Traffic Stop Outcomes**

*Benjamin Frimpong*

*Sponsor: William Herald*

Using structured data extracted from Vermont's 2017 traffic logs, the study delves into the dynamics surrounding traffic stops. The analysis involves scrutinizing various demographic factors, including age, gender, and race, to understand their collective impact on interactions with law enforcement. Specifically, the investigation focuses on whether these demographic variables affect the likelihood of receiving a ticket or a warning. Furthermore, the study explores the unique influence of individual factors, such as age or gender, on the outcome of these encounters. Leveraging analytical techniques like logistic regression, the aim is to gain deeper insights into the complexities of traffic stop dynamics.

Poster: 25

### **Identifying Key Factors in Road Accident Fatalities in Ohio: A Data-Driven Study**

*Suresh Lopinti*

*Sponsor: William Herald*

This study investigates the key determinants of road accident fatalities in Ohio over the last five years, focusing on drunk driving, weather conditions, and road types. Through detailed data analysis, it aims to uncover critical characteristics of accidents, ranging from minor to major injuries, as well as fatal accidents, providing a foundation for future road safety enhancements in Ohio.

## Poster Presentations (Continued)

Poster: 26

### **Impact of Road Salt on Chloride Levels in Local Waterways**

*Brynn Spicher, Samantha Klug, and*

*Alexandra Arnholt*

*Sponsor: Lauren Sandhu*

Water pollutants can originate from many sources. During frigid winters, road salt serves as a crucial tool for fighting ice and snow. When added to ice, road salt reduces the freezing point of water, allowing for the ice to melt even in sub-zero temperatures. Despite the evident safety advantages, the runoff from road salt introduces elevated levels of dissolved sodium chloride into nearby water systems. The increased salinity threatens both water quality and native organisms that inhabit the affected areas. Assessing the percentage of sodium chloride and chloride concentrations in parts per million (ppm or mg/L) will determine the impact of road salt on water quality. In addition, monitoring these metrics before and after winter storms will key into the environmental repercussions over a set period.

Poster: 27

### **AI Generated Image Detection Using Convolutional Neural Network Techniques**

*David Garfield Stevenson Nagathota*

*Sponsor: William Herald*

Detecting images generated by Artificial Intelligence (AI) poses a significant challenge in digital content verification. Classification of images often relies on advanced Neural Networks, particularly Convolutional Neural Networks (CNNs), renowned for their effectiveness in image analysis. The generation of fake images requires Neural Networks, such as Generative Adversarial Networks (GANs). Among GANs, StyleGAN stands out for its ability to produce high-fidelity synthetic images. This project aims to explore Convolutional Neural Network (CNN) techniques, particularly MobileNetV3, EfficientNet, and similar architectures, to identify images of faces generated by StyleGAN. By using a dataset containing both real and fake images, this can be achieved by developing a CNN model.

Poster: 28

### **Dual Degree Programs Offered by ACPE Accredited Pharmacy Schools**

*Paige Willms and Allison Leszczynski*

*Sponsor: Lori Ernsthausen*

Dual degree programs have become increasingly popular among pharmacy students seeking to gain a competitive advantage in the workforce. The intent of this study is to collect and compare the various dual degree options available to Doctor of Pharmacy students. To gather this data, information was collected on dual degree programs from each college's website. Of the 141 ACPE accredited pharmacy schools in the United States, 101 offer dual degree programs. The most frequently offered dual degree programs are PharmD/MBA, PharmD/MPH, and PharmD/PhD. The findings of this study may serve as a beacon to guide prospective students considering dual degree programs, as well as enlighten pharmacy schools on the dual degree offerings at peer institutions.

Poster: 29

### **DEI (Diversity, Equity and Inclusion) in Japan: Buraku Issues in the Past and Present**

*Audrey Hess*

*Sponsor: Hiroaki Kawamura*

Burakumin are one of the largest minorities in Japan with an estimate of over three million individuals (Buraku Liberation and Human Rights Research Institute). Unlike other minority groups such as the Ainu and Zainichi Koreans, Burakumin are not a racial or ethnic group. During the feudal era, many Burakumin were engaged in professions deemed "polluted," i.e., slaughtering animals and/or executing criminals. This has led to their descendants being seen as "unclean" as well. Burakumin were often excluded from society and suffered from the extreme poverty. While advancements have been made with respect to their living conditions by the 1969 law, discrimination still exists. In recent years, a new form of discrimination started emerging online. In 2023, I conducted fieldwork in Japan with three other students and two faculty mentors through the ASIANetwork Student Faculty Fellows grant program. This poster presentation will report our findings.

## Poster Presentations (Continued)

Poster: 30

### **Predictive Analytics for Enhancing Food Safety in Franklin County Ohio: A Public Health Perspective**

*Dhirat Raut*

*Sponsor: William Herald*

In a world where foodborne diseases continue to be a major concern, the World Health Organization (WHO) has taken a significant step forward. They've crafted a food safety manual with a clear goal: to educate and empower food safety professionals across the globe. This manual isn't just a collection of guidelines; it's a strategic tool designed to tackle the widespread issue of foodborne illnesses head-on. To analyze food safety risks and enable more accurate and proactive management of food safety issues, the integration of data analytics and tracking systems has become essential.

Poster: 31

### **Evaluation of Single-Leg Balance Pre- and Post-Fatigue in Collegiate Athletes With and Without Functional Ankle Stability**

*Celia Johnson, Sydney Guyer and Anthony Fusco*

*Sponsor: Stephanie Born*

Dynamic balance, as an integral component of sport play, is crucial in the prevention of ankle injuries, particularly in individuals with functional ankle instability (FAI). This study aims to investigate the impact of fatigue induced via compliant unilateral stance on dynamic balance in athletes with and without FAI. Results indicate that two minutes of a single-leg stance on a compliant surface revealed an increase in dynamic balance, evident by improved mean YBT scores, regardless of indication of FAI.

Poster: 32

### **Assessment of Nutrition Knowledge Amongst NCAA Division II Athletes**

*Taylor Creed*

*Sponsor: Stephanie Born*

The purpose of this study was to assess the nutritional knowledge of University of Findlay NCAA Division II student-athletes. The objective was to analyze the participants' nutritional knowledge within the General Nutritional Knowledge (GNK) category and the Sports-Specific Nutritional Knowledge (SNK) category of the Abridged Nutrition for Sports Knowledge Questionnaire (ANSKQ). Acquiring this data can help to determine if there is a need for an intervention aimed at influencing the diet quality and overall performance of these student-athletes as both students and athletes. Results indicate that athletes have below average SNK, with average GNK, putting them at a disadvantage for making dietary choices to support optimal sports performance.

Poster: 33

### **Navigating Challenges and Understanding International Students' Experiences**

*Lakshmi Sai Kaivalya Kadiveti*

*Sponsor: William Herald*

This research digs into the journey of international students getting along in Findlay, Ohio. By knowing their backgrounds, language barriers, support mechanisms, and pre assumptions of USA, the project unravels this unique journey of these students. Through surveys and data analysis, the research identifies some situations and moments in them adapting to a new country and region, helps in a deeper understanding of the challenges and coping strategies. The project seeks to provide insights for incoming students and recommendations for the University, expecting a more inclusive and supportive environment.



## Poster Presentations (Continued)

Poster: 34

### **Searching Accommodation for International Students**

*SatyaSaiPavanKumar Vidiyala*

*Sponsor: William Herald*

The project focuses on studying the challenges that international students encounter when searching for suitable accommodations while studying abroad. It aims to understand these difficulties and explore ways to simplify the process of securing housing for these students. This project addresses the central research question: For the University of Findlay international students, what are the challenges associated with finding and booking accommodations and how can these challenges be mitigated? The research design consists of a user-friendly online platform that integrates various essential features to streamline the accommodation booking process. These features include providing a diverse range of accommodation options, ensuring secure and reliable booking procedures, offering comprehensive accommodation listings with detailed information, fostering a sense of community among students, collaborating with universities and landlords to expand accommodation choices, providing multilingual support, and creating a user-friendly interface for easy navigation.

Poster: 35

### **Food Waste Patterns: Analyzing Causes and Stages with Geographic Insights**

*Radhika Chowdary Kolla*

*Sponsor: William Herald*

This research project examines food waste and the annual disposal of edible food. The primary objective is to identify the specific stages in the food lifecycle, from production to consumption, where significant food waste occurs. Using a strong dataset, the research investigates various factors such as agricultural infrastructure, temperature, rainfall, agricultural land, geographic locations, and types of food products to visualize the percentage of food waste. The primary beneficiaries of this study's findings are environmental organizations, policymakers, and sustainability-focused non-governmental organizations (NGOs). The analytical approach incorporates machine learning, regression analysis, and descriptive statistics, with the addition of geographic information systems (GIS) for representing data geographically.

Poster: 36

### **COVID-19 Impact On Unemployment**

*Vineel Varma*

*Sponsor: William Herald*

This project examines the impact of COVID-19 pandemic on unemployment rates in the United States, the study focuses on two key research questions. Firstly, it investigates the impact of economic downturns on unemployment rates in the United States, primary focus being the states with higher unemployment rates. Secondly, it explores how the COVID-19 pandemic affected unemployment rates in the states that experienced restrictions with a specific focus on states subjected to severe lockdown measures. Utilizing data spanning from 2000 to 2022, the study aims to identify patterns and variations in unemployment rates across different states and the impact during periods of crisis.

Poster: 37

### **Analyzing the Basketball Player Performance on Home vs Away Perspective**

*Maha Lakshmi Soumya Yalavarthi*

*Sponsor: William Herald*

Everyone knows the home-field advantage. The purpose of my research is to determine whether the venue of a basketball game affects the performance of individual players. I will be analyzing and comparing player performance metrics across various categories (points, rebounds, assists, etc.) in both home and away games. Cluster analysis helps identify groups of players with similar performance patterns across home and away games. I will also be using multiple regressions and data visualizations. Data from the University of Findlay website for this season will be utilized to identify potential performance variations and contributing factors.

Poster: 38

### **Fake News Detection**

*Subbarao Ravuri*

*Sponsor: William Herald*

In a fast-paced world we can see many fake news articles, our project use machine learning model to detect the authenticity of news articles. Aim of the project is to find the model which gives best accuracy using the dataset which has labelled fake or real. The dataset is collected from Kaggle has 2 sub datasets. The fake news articles were collected from unreliable websites that were flagged by PolitiFact (a fact-checking organization in the USA) and Wikipedia. Real News collected from Reuters website.

## Poster Presentations (Continued)

Poster: 39

### **Impact of Recreational Marijuana Legalization on Road Accidents in U.S. States**

*Teja Sai Jagarlamudi*

*Sponsor: William Herald*

Out of 50 states of United States of America, 24 states have legalized the recreational use of marijuana. This project is a comparative analysis of road accidents happened before and after the Legalization of Marijuana. This analysis tells us if there is any correlation between the Legalization policy with number of Road Accidents happening in the State. This analysis will also be looking at the neighboring states of the legalized 24 states from the particular period of legalization time. By examining the pre-legalization and post-legalization periods, results conclude by saying if it is safer to Legalize the Recreational Use of Marijuana or not.

Poster: 40

### **Bloodstain Pattern Analysis: Decoding Crime Scenes Through Velocity and Impact Angle Analysis**

*Annabelle McMillan and Morgan Faulkner*

*Sponsors: Guofen Yu and Philip Lucas*

Bloodstain patterns are commonly observed at crime scenes, and their analysis through bloodstain pattern analysis can assist in reconstructing the sequence of events. Fluid dynamics, an aspect of the physical sciences, is used in blood pattern analysis to interpret variables such as velocity and impact angle. This project focuses on examining blood droplet impact patterns on various surfaces at varying angles, heights, and velocities. The validity of calculating the impact angle will be tested by varying the angle of various target surfaces, applying blood droplets, and holding the velocity constant. Velocity will also be calculated by varying release heights of droplets and comparing the modifications made on impact patterns.

Poster: 41

### **Exploring The Interconnection of Parental Feeding Styles and The Nutritional Education in Molding Children's Dietary Habits**

*Mackenzie Bacher and Liberty Mahaffey*

*Sponsor: Allison Kiefner-Burmeister*

The Comprehensive Feeding Practices Questionnaire (CFPQ) is a scale used to assess parental feeding practices and their influence on a child's eating behaviors. Parents' feeding practices play a crucial role in the development of a child's nutrition, eating habits, and weight status. A study was conducted that measured the behaviors of parents when feeding their 3–9-year-old children. The results showed that parents did not differ in their feeding styles or education of nutrition regarding their children. This is important because parents should be demonstrating a higher level of education and changing their behavior within feeding styles as children grow older. The results of the study also showed that parents offer food for emotional eating for girls more than they did for boys. This teaches females that when they grow up, and are experiencing these same emotions, eating unhealthy sugary foods is beneficial to their emotional improvement.

Poster: 42

### **Predictive Analytics for Used Car Prices**

*Upendra Machunuru*

*Sponsor: William Herald*

This project examines a dataset of used cars to develop a predictive model that estimates prices closely aligned with Kelley Blue Book (KBB) standards. This approach involves processing the data and using algorithms such as multilinear regression, random forest, and XGBoost to fine-tune the price predictions. Additionally, the project uses forward selection to identify factors that could impact the market value of used cars, aiming to be consistent with KBB's pricing framework. The ultimate goal is to minimize the discrepancy between our model's price predictions and KBB's actual valuations, thereby providing a more accurate estimation of the used car values in comparison to KBB's valuation.

## Poster Presentations (Continued)

Poster: 43

### **Understanding of Occupational Therapy Among Allied Fields**

*Sara Neff*

*Sponsor: Jacob Burmeister*

Occupational therapy (OT) assists individuals across the lifespan in continuing and improving their occupations. Through personal experience, communication with occupational therapy practitioners, and review of research articles, lack of understanding of the field has become prevalent. Misunderstandings include believing that individuals haven't heard of the field, thought it was synonymous with physical therapy, or did not know the role of OT practitioners. These misconceptions have been explored throughout the literature by assessing the understanding of the field by including samples of undergraduate health-care students, medical practitioners who work alongside the profession, and the general society located in a selected area. The proposed study is a replication and extension designed to distinguish the knowledge and misconceptions that allied healthcare undergraduate majors have of the field.

Poster: 44

### **College Athletics vs NIL Endorsements**

*Joshua Thorbahn*

*Sponsor: Shane Fudge*

NIL endorsements deals for college athletes have changed the way college teams have recruited athletes from all over the country. This has given college athletes the opportunity to make a profit off of their name from other businesses and companies, instead of just getting scholarship grants through the institutions. While college athletes and teams have benefitted from NIL, it has also created some controversies and issues to where NIL may have gotten out of control. Now, college athletes will transfer schools based on how much NIL money they can make at another school. The research takes a look at if institutions will keep student-athletes at the school if there were more NIL deals for just the college teams, not just the individual.

Poster: 45

### **How Has the Incorporation of NIL Affected College Athletics, and is the Current Governance Provided by the NCAA Sustainable Moving Forward?**

*Donnie Professori*

*Sponsor: Shane Fudge*

In the summer of 2021, the NCAA announced that student-athletes would be able to profit off of their name, image, and likeness (NIL) for the first time in 115 years. While NIL has provided student-athletes with an abundance of opportunities to grow, there are underlying problems with the current structure provided by the NCAA in relation to this subject. This study will look at the negative impacts of NIL on student-athletes and their respective universities and attempt to provide solutions. Specifically, the way NIL is governed by the NCAA will be examined to see if a more structured approach would be more beneficial for all parties involved.

Poster: 46

### **The Impacts of Sports Betting on the Sports Industry**

*Dylan Hickey*

*Sponsor: Shane Fudge*

The sport's industry's viewership has been mostly stagnant for several years. In the background, however, sports betting has grown immensely in recent years. As this industry has grown and expanded, the sports industry has begun to take advantage of sport's betting popularity. In order to understand this connection, this research focused on gathering statistics related to the potential impact that sports betting has had on the sports industry. The profitability of the sports industry is closely tied to consumer engagement. Whether or not sports betting has contributed to consumer engagement will likely be the determinant of whether or not the partnership between the two industries will have a positive impact on the sports industry.

## Poster Presentations (Continued)

Poster: 47

### **Analysis of Spam or Non-Spam Text Messages**

*Abdas Devi Varaprasad  
Sponsor: William Herald*

Spam messages, which are frequently seen as digital annoyances, comprise a wide range of uninvited and unwanted communication sent through different digital channels like social media, text messaging, and emails. This semantic analysis consisted of analyzing text messages and categorizing if they are spam or non-spam messages. This is a sequential process of analyzing, detecting and notifying the users regarding text messages that they have received.

Poster: 48

### **Hour of Code: HTML, CSS, JavaScript, & GitHub**

*Grant Bryan, Millie Berg, Lidia Laskova, Zachary Mitchell, Julia Marcuzzi, Hassan Sesay, and Owen Styer  
Sponsors: Helen Schneider and Mary Jo Giese*

We are Computer Science students selected by the Choose Ohio First Program to expand our knowledge in different areas within STEM and mentor prospective students. Each year, we conduct an Hour of Code workshop for students within the Marathon IT Explorers. Previously hosted events include: Python Demonstration, RC Cars, Raspberry Pi & Minecraft. For last year's Hour of Code session, we focused on the importance of collaborative communication and independent creativity. Through the use of website development and software engineering concepts, we exposed the IT Explorers to both topics. In addition, we helped illustrate the importance of how to work with teams and be responsible for their work. A guided interactive experience in creating their own website provided these students with a foundation for understanding collaboration and website development. Our goal for these students was for them to create a website, manage it, and share it with others. For last year's Hour of Code session, we Choose Ohio First scholars focused on a guided interactive experience for students to create their own website to showcase the importance of collaborative communication and independent creativity.

Poster: 49

### **The Future of Funeral Service; Exploring Current Trends and Attitudes About Death and Post-Mortem Services**

*Brent Miller  
Sponsor: Shane Fudge*

Preferences and types of services within the funeral industry have changed drastically within the last 20 years. Traditional burial used to be much more popular than it is today. Now, cremation is a much more common option. This study aims to better define and understand why families and individuals choose different types of funeral service options, as well as understand their motivations behind those decisions.

Poster: 50

### **Effects on Automobile Industry from Inflation, Global Competition, and Supply Chain Issues**

*Brady Johns  
Sponsor: Shane Fudge*

Prices of vehicles have risen greatly in the past few years. There are many possible explanations for this. Perhaps the three most evident reasons for price disruption in the automobile industry are inflation, global competition, and supply chain issues. Analysis will show correlation between the three variables and prices.

## Poster Presentations (Continued)

Poster: 51

### **Changes in Understory Diversity after Emerald Ash Borer-Induced Mortality of North American *Fraxinus***

*Jenna Illig*

*Sponsor: Benjamin Dolan*

Emerald Ash Borer (EAB), a wood-boring beetle indigenous to eastern Asia, has established itself in North America, where it has decimated *Fraxinus* populations. The result of EAB-induced mortality is a pronounced shift in the composition of North American forest ecosystems, with shade-tolerant species, including *Acer saccharum* and *A. rubrum*, emerging as dominant plants in areas once dominated by *Fraxinus* species. Building on previous research from 2018, our study aims to elucidate the long-term changes in woody plant community biodiversity. We have selected six tenth-acre permanent plots in Hancock County, Ohio, as our focal research sites. Using data collected consistently from 2012 to 2022, we will examine the changes in plant richness and density over time. We anticipate observing further shifts in species composition because of a combination of altered light dynamics and white-tailed deer browsing in the understory.

Poster: 52

### **Can Better Marketing Improve Consumer Perception of the Meat Industry?**

*Zack Britton*

*Sponsor: Shane Fudge*

In today's society, many people are choosing to eat vegetarian or vegan diets for a multitude of reasons spanning from ethics to health concerns. This has likely stemmed from numerous stereotypes surrounding the meat industry. What has the meat industry done to combat these stereotypes? Next to nothing. This research will analyze how consumer perception of the meat industry affects their diet and buying habits. It will also analyze how, with better marketing strategies and business practices, the meat industry could clean up its image and improve consumer perception.

Poster: 53

### **The Impact of Artificial Intelligence on Logistics and Transportation in the Aviation, Railroad and Trucking Sectors of the Transportation Industry**

*Brandon Good*

*Sponsor: Shane Fudge*

This presentation shows the correlation between abilities of artificial intelligence and the improvement and self-regulation (self-automation) of the transportation industry, specifically in railroad, trucking and aviation sectors.

Poster: 54

### **The Impact of Climate Change of the Winter Tourism Industry.**

*Alexis Gorant*

*Sponsor: Shane Fudge*

The increase in temperatures and decrease in snowfall levels are negatively affecting the winter tourism industry. Areas in lower altitudes are more greatly affected than areas in higher altitudes. Not only has the amount of snow falling been affected but also the quality of the snow that does stick. This all affects the length of the winter sports season, the attendance rate at ski/snowboarding areas, and past and upcoming winter Olympics.

Poster: 55

### **Analyzing and Predicting Graduates' Career Paths: A Study of Graduates from University of Findlay**

*Mohammad Mahyar Pourabdollah Khadar*

*Sponsor: William Herald*

One of the most significant concerns for students before graduating is securing a job. This capstone project will delve into the career paths of graduates from University of Findlay, utilizing historical data—such as degree, major, internships and volunteer experiences, gender, and timing of graduation—to analyze the factors influencing job attainment and their impacts. Employing statistical techniques, including descriptive statistics, correlation analysis, regression models, and leveraging machine learning models like Random Forest and Decision Tree, along with data visualization. The project aims to highlight the most influential factors in job placement.

Poster: 56

## The Role of Pharmacogenomics in Treatment Decisions

*Evelyn Khammanh, Anjali Patel, Samantha Bentley, Stephen Garrison, and Hailey Selders*

*Sponsor: Jason Guy*

Pharmacogenomics testing is an evaluation tool for navigating pharmacotherapy interventions. This testing can give valuable insights into genetic variations in individuals that may alter the way they metabolize certain medications. This emerging field can be valuable in selecting and optimizing therapy for providers. CYP2C19 is a member of the cytochrome 450 family of genes. These enzymes are responsible for the metabolism of various molecules and drugs. CYP2C19 produces an enzyme that is primarily located in the liver. Genetic polymorphisms with CYP2C19 can cause either rapid metabolism or loss of function with a key cardiology drug, Clopidogrel. Clopidogrel is an anti-platelet agent used to prevent heart attack and stroke in certain cardiovascular conditions (peripheral artery disease, etc). Therefore, the ultimate goal of examining CYP2C19 is to determine the extent that alleles CYP2C19\*2 and CYP2C19\*3 cause treatment failure in these patient populations.

Poster: 57

## Horse's Body Thermoregulation

*Anna Schwartzfisher and Kaylie McCann*

*Sponsors: Guofen Yu and Lok Lew Yan Voon*

Horse's internal and external temperature varies differently among age, breed, and hair length and will also vary when protected with Mylar blankets. Nine horses of different breeds, ages, and hair lengths are the subject of this research. The internal and external body temperatures with/without Mylar blanket around the mane of the horse for 30 minutes at various barn temperatures are collected. The correlation between thermoregulation and breed of horse, age, hair length, or Mylar blanket are reported.

Poster: 58

## Has the Legalization of Marijuana Caused any Changes to Drug Abuse and Positive Testing Statistics Among the NCAA and Other Sports Associations?

*Maxwell Hosey*

*Sponsor: Shane Fudge*

The purpose of this research study is to look into the potential changes in drug abuse patterns and positive testing statistics among the NCAA and other sports associations following the legalization of marijuana. By reviewing the effects of legalization on athlete behavior and testing outcomes, this study aims to provide information into the implications of drug policy changes in sports.

Poster: 59

## Does Captive Breeding Affect Isopod Personality?

*Emily Scoggins, Magdalena Devan, Annabelle McMullan, Jenna Rybicki, and Samuel Waldman*

*Sponsor: Vincent Coppola*

Higher-order organisms are typically the focus of research on animal personality, with the lowly bugs of the world being swept under the rug during such discussions. Previous studies however, have documented a boldness/shyness personality trait in many arthropods, including cockroaches and bees. In the current study, we investigated boldness/shyness in two groups of terrestrial isopods (both *Porcellio scaber*): a wild-caught line and captive-bred "orange" line. It was first hypothesized that individuals would display a consistent pattern of behavior along the boldness/shyness continuum (i.e., personality). Second, it was hypothesized that the many generations of captive breeding of the orange group would alter their boldness/shyness relative to the wild-caught group. To test these hypotheses, isopods were tested on two behavioral tasks designed to quantify each individual's boldness/shyness. Data analysis aims to detect between-group differences, thus investigating the effects of captive breeding on personality in *P. scaber*.

Poster: 60

## **Chatbot vs. Google Search: A Comparative Study in Cybersecurity Learning**

*Safiuddin Siddiqui*

*Sponsor: William Herald*

The development of AI-powered chatbots offers new ways to distribute information. This project aims to investigate the effectiveness of a cybersecurity chatbot in comparison to standard Google searches. It conducts an analytical comparison between a cybersecurity chatbot and standard Google searches in terms of its accuracy, relevance, and depth of the information. Traditional search engines like Google are commonly used to gather information but they often present challenges in filtering the huge amounts of data.

Poster: 61

## **Generation Z and their Motivation in the Workplace**

*Jagger Landers*

*Sponsor: Shane Fudge*

A problem that has been occurring among Generation Z has been their lack of motivation to work. This has not been an issue in the past and if it was those people weren't successful. Today, more people tend to complain about Generation Z workers being unmotivated to work and they require too many needs to stay motivated. In order to better understand Generation Z, data was gathered to find what is keeping Generation Z motivated and what factors make them unmotivated and why. Analysis and observations were done on the data to see if any patterns occurred.

Poster: 62

## **Benefits Effect on Turnover Rates After the Pandemic**

*Kayla Dykin*

*Sponsor: Shane Fudge*

The COVID-19 pandemic caused the increase of benefits given to workers by businesses. This included a change of working environment, health insurance, and time off. This was due to the increased job turnover and mass shortage of workers due to the pandemic. Post COVID-19 lockdown, these increased benefits are now the minimum. The purpose of this research is to address the increased level of job turnover post pandemic and the change in expectations of benefits for high talent employees. This topic is important and relevant today as companies have been facing an ongoing struggle to bridge the gaps for skills within jobs.

Poster: 63

## **Impact of COVID-19 on the Tourism Industry in South America: A Comprehensive Study**

*Luigi Bove*

*Sponsor: Shane Fudge*

This study examines the impact of the COVID-19 pandemic across the South American tourism industry, particularly on local companies, hotels and transportation. By drawing on economic theory regarding external impacts and crisis management, this study aims to better understand the problems faced by the economy and businesses in the region and to propose strategies to promote the tourism industry. The research, which examines how the pandemic affects the needs of travelers, highlights the financial difficulties faced by companies that rely on tours. The findings contribute to our understanding of the interaction between public health, tourism, and external influences in emerging markets such as South America. Policy makers, business and academia can benefit from the study's recommendations to analyze the effectiveness of business development strategies and mitigation measures. Additionally, this study extends previous research by addressing the specific context of South America and incorporating public health into the crisis management strategy. This study highlights the importance of adaptive strategies to address the various risks and prospects present in the South American tourism industry.

Poster: 64

## **Examining the Differences in Ethical vs. Unethical Behavior in Social Media Influencer Activity**

*MaKenna Schaney*

*Sponsor: Shane Fudge*

As social media keeps growing, so does the popularity of influencers and lifestyle bloggers. Social Media Influencers (SMIs) must make money through their channel on social media, doing so requires brand deals and sponsorships. This research is to examine the decisions SMIs make and if these decisions are ethical or unethical. People with bigger platforms and more followers have more influence over people. The goal of this research is to examine how much social responsibility influencers have and should take accountability for.

Poster: 65

## **How Have Retailers Adapted to Cancel Culture on Social Media**

*Aurora Lescody*

*Sponsor: Shane Fudge*

The purpose of my research is to examine how retailers have adapted to cancel culture on social media. Throughout retail history, we have seen trends come and go long before social media entered the picture. Social media allows users to share thoughts, information, and ideas, and for many of us, this tool has quickly become an essential part of our everyday lives. Social media is a powerful tool that can be used in both positive and negative ways. With massive amounts of opinions flowing in and out of our feeds, people tend to gravitate towards other like-minded people to support their own opinions. This can create large social networking communities. The power of social media can be seen when influencers can promote a product or retailer, or the inverse which is to prevent their progress or cancel them. Cancel culture originated from the idea of holding companies or individuals responsible for their actions that are considered socially unacceptable and working to get them invalidated or canceled. Cancel culture often aims to discredit a business or an individual to remove them from power or cause them to suffer financially. I am looking into what happens when a business is discredited or canceled simply because a community online does not agree with their actions or opinions.

Poster: 66

## **Navigating the New Era: A Comparative Analysis of NIL Deals and Traditional Professional Sports Contracts**

*Camden Perkins*

*Sponsor: Shane Fudge*

The primary purpose of this research is to conduct a comparative analysis of Name, Image, Likeness (NIL) deals, and traditional professional sports contracts within the contemporary sports industry landscape. By examining the similarities and differences between these two types of agreements, the study aims to achieve several objectives. Firstly, it seeks to clarify the legal, economic, and regulatory frameworks governing NIL deals and traditional contracts, providing insights into the rights, responsibilities, and implications for athletes, sports organizations, and other stakeholders. Secondly, the research aims to analyze the impact of NIL deals on athlete empowerment, autonomy, and financial opportunities, particularly in the context of collegiate athletics. Additionally, the study endeavors to assess the economic dynamics, risk management considerations, and social-cultural implications associated with NIL deals compared to traditional sports contracts. Ultimately, the research endeavors to contribute to a deeper understanding of athlete compensation and endorsement arrangements, informing policymaking, industry practices, and future directions in the sports business domain.

Poster: 67

## **Corporate Greenwashing**

*Kennedy Slovak*

*Sponsor: Shane Fudge*

When it comes to sustainability in the workplace and companies trying to go green, greenwashing has emerged into a major issue around the world. When consumers go to buy a product from a company that they think is green, they tend to feel good about themselves because they feel they're doing something good for the environment. However, lots of companies lie about being green just for the profitability, and how it makes their company look better. Further research has been made to see how lying about being green can negatively affect a company's reputation, and how it negatively affects consumer behavior when these consumers figure out they've been lied to.



Poster: 68

### **What is the Potential Impact on ROI From Marketing With Instagram, Facebook, etc., for the Express Package Delivery Services (UPS, FEDEX)**

*Dylan Schimmoeller*

*Sponsor: Shane Fudge*

In the last couple of years, the explosive growth of social media has been intricately tied to advancements in technology, fundamentally transforming the landscape of communication, connectivity, and business outreach. The advancement of high-speed internet, smartphones, and innovative platforms has facilitated unprecedented levels of global interconnectedness. This technological surge has empowered businesses to leverage social media marketing as a potent tool for enhancing brand visibility, engaging with target audiences, and ultimately boosting Return on Investment (ROI). Companies are increasingly recognizing the significance of cultivating a strong online presence to connect with consumers in real-time, humanizing their brands, and fostering customer loyalty. Social media platforms serve as dynamic marketing channels, enabling businesses to share compelling content, run targeted advertising campaigns, and gather valuable insights through analytics.

Poster: 69

### **GPA and Self-Reported Mental Health in a Doctor of Pharmacy Program**

*Changlena Delphe and Gheed Al Jubury*

*Sponsor: Sandra Earle*

Mental health has tremendous importance in many aspects of life, including grade point average (GPA). The incidence of low or high mental health and its relationship with GPA during the professional years of a doctor of pharmacy program remains vague and theoretical. Student pharmacists at the University of Findlay have been required to self-evaluate their mental health status each semester using an internally developed 3-question series for the past several years. Student pharmacists are also asked to self-report their current GPA on the form and other programmatic performance questions for advisors to use during advising sessions. The retrospective data collected was used to determine if there is a correlation between mental health and GPA. By better understanding how mental health may be a factor in a student's academic success, proactive recommendations can be made by advisors, teachers, and supporters.

Poster: 70

### **What Happens When We Run Out of Crude Oil: Examining Industry Contingency Planning Efforts**

*Blake Steiner*

*Sponsor: Shane Fudge*

The research will analyze the theories on the economic impact and the repercussions that will be in place on the industry and global trade. Another theory that will be examined is the energy transition theory, what are the shifts that will be needed to shift to alternative forms of energy? Another key idea is the fact that there will need to be a shift in society and culture by examining the transformations in lifestyle and consumption. This research explores the consequences of running out of crude oil, focusing on key economic theories to analyze industry and global trade impacts. It also investigates energy transition theories for shifts to alternative energy and examines social and cultural changes in lifestyle and consumption. The goal is to provide a nuanced understanding of the multifaceted implications and necessary adaptations in a post-crude oil world.

Poster: 71

### **Antidepressant Use in Geriatrics Living at Home vs Living in a Nursing Home**

*Klair Ruggiero, Maile Plotner and Courtney*

*Weihrauch*

*Sponsors: Charles Mosler and Suzanne Lifer*

Elderly patients are at increased risk of experiencing depression and suicidality compared to younger populations. Approximately 2.5 million elders in the United States currently live in nursing homes to manage health conditions and assist with activities of daily living. Unfortunately, studies have shown that living at nursing home facilities pose increased hospitalizations and mortality due to depression and other mental health illnesses. This study investigates the difference of antidepressant use in patients 65 years or older living in nursing homes compared to living in the community. The antidepressants predominantly evaluated in this study were SSRIs, SNRIs, and TCAs. The data obtained was utilized to ascertain the correlation between living in a nursing home and antidepressant use versus living at home and antidepressant use. Further studies are required to analyze the effects of nursing home residency on mental health in comparison to living in the community and overall health outcomes.

Poster: 72

## **The Effects of COVID-19 on Employee Turnover**

*Lauren Benroth*

*Sponsor: Shane Fudge*

Since the COVID-19 pandemic, the job market has been all over the place. Many employees were laid off or had to resign in order to take care of themselves or family members. Now that the pandemic is on a downward spiral, people are getting back to work. However, companies are having a difficult time retaining employees. There are many factors that are leading to a high turnover rate that is being seen across the board on all different industries. These factors will be explored along with the effects of high turnover rates on different industries.

Poster: 73

## **Comprehending Deception: Children's Challenges in Recognizing Unhealthy Foods Amidst Deceptive Packaging**

*Jade Ridgely and Kirsten Frazier*

*Sponsor: Allison Kiefner-Burmeister*

The food industry's skillful manipulation has blurred the lines between healthy and unhealthy foods, confusing both parents and children (Kiefner-Burmeister & Burmeister, 2020). Deceptive packaging often misleads consumers, presenting seemingly nutritious options, like fruit snacks and veggie straws, as health-conscious choices when in reality they are more nutritionally similar to candy and chips. To gauge children's awareness of such deceptive practices, a mock "grocery store" was set up for child participants aged 3-9 years. They were tasked with selecting both healthy and unhealthy items. They were also asked to pick unhealthy foods that were deceptively packaged as healthy. Surprisingly, the study revealed that while children could differentiate between typical healthy and unhealthy foods, their ability to recognize deceptively unhealthy options remained low and consistent across age groups and Piaget's cognitive stages.

Poster: 74

## **Identifying Ingredients: Obstacles in Processed Foods, and Child Inaccuracies Within Them**

*Kirsten Frazier and Brooke Vennekotter*

*Sponsor: Allison Kiefner-Burmeister*

The origins of processed foods are complex for children to understand in comparison to natural foods, such as fruits and vegetables (Girgis & Nguyen, 2020). A mock grocery store was created to study how children between the ages of 3-9 identify healthy food, unhealthy food, and deceptively unhealthy food items. Deceptively unhealthy refers to foods appearing healthy due to packaging or misleading advertisement, but are high in fat and sugar while being low in nutritional content (Kiefner-Burmeister & Burmeister, 2020). Within such foods, children listed the ingredients of each processed product (e.g. beef-sticks and pasta). Results of the identification process varied widely, ranging from nearly accurate responses to completely inaccurate descriptions. Additional findings included children fixating on the appearance and visible serving suggestions on the package itself (e.g. lemon shown on pasta box). Ultimately, identifying ingredients rose with child age and is important for sustainable eating practices.

Poster: 75

## **Assessing Productivity and Engagement of Remote Workers in the United States**

*Kalena Jackson*

*Sponsor: Shane Fudge*

Remote work is increasing in the United States. Due to this substantial increase in remote employees, it is vital to investigate whether remote employees are as productive as traditional, in-person employees. Another important aspect of this comparison is the factor of employee engagement. Data was collected on if engagement plays a factor in employee's productivity. This study explored the effects of remote work on employee's productivity and engagement levels. Analysis was drawn between traditional and remote workers to investigate if remote workers are beneficial or costly to companies in the United States.

Poster: 76

## **Associations of BPD and NPD With Relationship Quality and Well-Being**

*Jordan Haines*

*Sponsor: Jessica LaBuda*

This study investigates whether traits from borderline personality disorder (BPD) and narcissistic personality disorder (NPD) are associated with well-being and relationship quality. BPD is characterized by severe interpersonal relationship conflict and intense feelings of “abandonment” with close others (Choi-Kain et al., 2009; Hill et al., 2011; Miano et al., 2017; Selby et al., 2008). NPD is characterized by two distinguishable traits: admiration and rivalry (Casale et al., 2019; Wurst et al., 2016). Admiration can be described as promoting one’s self-view in a positive manner by seeking applause, which leads to positive social outcomes. Alternatively, rivalry is the tendency to belittle others to protect one’s self-view. Importantly, BPD and NPD traits have been shown to lead to romantic dysfunction, particularly for long-term relationships. Therefore, investigating whether these tendencies are associated with poorer well-being and relationship functioning can provide a clearer understanding of how BPD and NPD traits can influence interpersonal interactions.

Poster: 77

## **The Influence of Empathy on Perceived Victimization, Legitimacy, and Alleged Crime Severity**

*Ava Doster*

*Sponsor: Jessica LaBuda*

We investigated whether baseline empathy impacts perceptions of victimization through crime-based vignettes. We are examining how participants’ empathy influences their reported victim attributions across crime scenarios and victim identification (i.e., legitimate versus illegitimate victim). Legitimate victims are perceived as weak and blameless; illegitimate victims as deceivers and those who wish to gain from their victim status (Lewis et al., 2019). Previous research shows a connection between empathy and victim advocacy and concern (Clements et al., 2006); we expect higher baseline empathy to be positively correlated with victim specific empathy. Deeper understanding of empathy applications, victim perceptions, and crime severity ratings can help both our legal and social systems. This study aims to identify these empathy applications and highlight their associations with criminal or legal attitudes to better aid in understanding the perceptions of victims or crime scenarios in promoting justice.

Poster: 78

## **Partner Decisions of Contraceptive Usage and Relationship Quality**

*Mackenzie Lape*

*Sponsor: Jessica LaBuda*

Research suggests that male emerging adults from eighteen to twenty-nine years of age are 53% less likely to use contraceptives with long-term partners, and females are 36% less likely to use contraceptives with long-term partners (Higgins et al., 2012). In long-term relationships, contraceptive usage can contribute to dealbreakers within partners. Furthermore, power dynamics and masculinity norms are often correlated with contraceptive decision making (Grady et al., 2010; Mahalik et al., 2003). This may stem from miscommunication and personal beliefs that partners hold surrounding gender and contraceptive use, as well as beliefs of contraceptive use within the hook-up culture (Grello et al., 2006). The current study examines how power dynamics and partner commitment are associated with contraceptive decisions for established couples.

Poster: 79

## **Effectiveness of Chemical Processing for Developing Latent Prints on the Adherent Side of Tape**

*Avery Wright*

*Sponsor: Philip Lucas*

The purpose of this study will be to overcome common issues associated with current methods of latent fingerprint enhancement with regard to the adhesive side of the tape. As a result of its adherent nature and surface composition, such issues include the elevated risk of background staining, difficulty in visualization, potential detail loss, and tedious processing. For the purpose of this research, the application of several chemical processing techniques will be assessed. CA fuming and staining, Photo-Flo, Stick Side Powder, RAM dye, Yellow Dye 40, Gentian Violet, and Liquinox. These reagents will be applied to various compositions of adhesive tape, including clear sticky tape, brown packaging tape, frosted tape, gaffers’ tape, black electrical tape, and grey duct tape. Developed latent prints will be scored using the Bandey Five-Point Scale System.

Poster: 80

## **Understanding the Influence Packaging Has on Children's Selection of Products**

*Brooke Vennekotter and Jade Ridgely*

*Sponsor: Allison Kiefner-Burmeister*

The food industry uses various practices to manipulate children into choosing their products including placing cartoon characters onto packaging. Studies have demonstrated mixed results on whether character display impacts children's preferences (Nelson et al., 2015; Ogle et al., 2016). To continue studying the effects packaging has on children's selection of foods, we created a mock "grocery store" for children. From the foods in the "grocery store," there were doubles of particular foods where one item had a cartoon, and one did not. The results showed when choosing healthy foods, children choose foods with no characters 8 times compared to 10 times with characters. When choosing unhealthy foods, children choose foods with no characters 14 times compared to 20 times with characters. Lastly, when choosing foods that are deceptively unhealthy, children chose foods without characters 13 times compared to 10 times with characters.

Poster: 81

## **Synthesis and Characterization of Glycerol-Based Biodiesel Fuel Additives**

*Lauren Crutchfield*

*Sponsor: Nathan Tice*

Biodiesel, which is comprised of a mixture of long-chain fatty methyl esters, has long been viewed as a superior fuel compared to petroleum diesel with environmental factors in mind, as it releases fewer harmful emissions into the atmosphere and can be created from renewable feedstocks. However, one of the biggest challenges with biodiesel is its relatively high freeze point, which leads to challenges in cold operations. To counteract this, certain fuel additives can be added to lower the observed cloud point for biodiesel. One such class of promising additives are based upon a glycerol-backbone, acetal-glycerol esters. This approach has the additional advantage of utilizing a side product from the biodiesel formation process itself to enhance the properties of the biodiesel.

Poster: 82

## **What is the Perception of Palliative Care?**

*Kennedy Walsh*

*Sponsor: Jenny Evans*

The World Health Organization defines palliative care as "an approach that improves the quality of life of patients and their families through the prevention and relief of suffering by means of early identification and impeccable assessment and treatment of pain and other problems, physical, psychosocial and spiritual." (Aldridge et al., 2015). This study aims to determine how college-aged participants perceive palliative care. The lack of common knowledge, attitudes, and beliefs about palliative care is a problem that should be researched to figure out where we stand on the matter. A lack of education is the most significant contributing factor to these problems. The goal of this research is to go through what education is currently on palliative care for those currently in school. That way, it can gauge and say this is what is currently out there, why it is not working, and what more can be done. Reference (not included in 150 word count, but is cited in abstract) Aldridge, M. D., Hasselaar, J., Garralda, E., van der Eerden, M., Stevenson, D., McKendrick, K., Centeno, C., & Meier, D. E. (2015). Education, implementation, and policy barriers to greater integration of palliative care: A literature review. *Palliative Medicine*, 1-16. doi: 10.1177/0269216315606645

Poster: 83

## **The Effects of Time Management the Internet Creates on Large Businesses**

*Jaysen Knick*

*Sponsor: Shane Fudge*

The internet has become very mainstream over the past twenty years and is continuously improving with things such as AI (artificial intelligence). Large businesses have transformed the way they do business by incorporating internet use among their daily operations via communication, task, and even payroll. In order to see how the internet has effected the use of time during the workday, I have explored different articles to analyze the data of previous studies that tested how people use the internet in the workspace.

Poster: 84

## **Lack of Transparency of Ingredients in United States' Food Products in Relation to Consumer Preferences**

*Alexis Shoop*

*Sponsor: Shane Fudge*

The purpose of my research is to answer a question I have about the lack of transparency in United States' food products' ingredients in relation to consumer preferences. I will use my findings to conduct my final research project for BUAD 390. The problem to be explored in this study is whether or not a lack of transparency about ingredients in the food products sold in the United States affects consumer purchasing preferences. The purpose of this study is to see how a company would successfully educate a consumer about their ingredients to increase awareness of the product's health effects.

Poster: 85

## **Current Electrical Utility Infrastructure May Struggle to Accommodate Surges in EV Car Ownership**

*Nick Korhorn*

*Sponsor: Shane Fudge*

The problem to be explored in this study is if the infrastructure of the current power grid can sustain the demand that electronic vehicles will create, and what effects businesses and consumers will face. The importance of this study is that, without exploring the current demand and need for the power grid, many people may lose access to power for periods of time, causing great problems. I plan on conducting this by looking at past information, as well as information that may currently be important. I will look through other studies and peer reviewed articles to come to a conclusion on what exactly will happen if current projections are true. The data compiled within this study will help people get a better understanding of what the future of electronically power cars may hold.

Poster: 86

## **Pandemic Postpartum - Is Remote Work the Future for Greater Workplace Satisfaction?**

*Anna Rider*

*Sponsor: Shane Fudge*

In the working world, there is a perceived stigma of remote workers being less productive in the workforce. This study aims to determine the productivity differences between traditional and remote workers, especially those in the accounting field. To answer this question, research was done on existing reports that studied both employees' and employers' reactions to remote work. These studies were then analyzed and reviewed to determine results. The availability and quality of work is crucial to a functioning business world.

Poster: 87

## **A Prospective Observational Study on Impact of Diabetes Mellitus and / or Dyslipidaemia on Incidence, Severity and Recurrence of Stroke at a Tertiary Care Hospital in South India**

*Satheesh S Gottipati, Dehanaz Begum Sk., Nissi Joseph V., Kumaravelu S., Honey Hasini S., Sindhu G., and Naga Sai Prakash Reddy G.*

*Sponsor: M. Chandra Sekar*

The aim of this study was to assess the impact of diabetes mellitus and / or dyslipidemia on incidence, severity, and recurrence of Stroke. This 4-month prospective observational study was carried out on 100 stroke patients visiting Neurology out-patient department at a tertiary care hospital in south India. IRB approval was taken prior to the initiation of the study and the patient consent was obtained from each patient enrolled. Following parameters, HbA1C, LDL, HDL and Total Cholesterol levels were taken into consideration. Among diabetics, those with uncontrolled hyperglycemia had higher incidence of stroke, severity, and recurrence than those with moderate to good glycemic control. Individuals with total cholesterol levels in the high or borderline-high range had a higher incidence of both primary and recurrent stroke.

Poster: 88

### **A Prospective Observational Study on Impact of Covid-19 Lockdown on the Behavioral Patterns of Children in South India**

*Satheesh S Gottipati, Vennela Atmakuri, Sahithi Chandarlapati, Sirisha K.Y.M., Lakshmi Sukanya M., Nazreen Banu Sk., and Siva Sai Mallik P.*  
*Sponsor: M. Chandra Sekar*

Aim of the study was to assess different types and major causes of behavioral changes before and after Covid-19 lockdown and observe the negative psychological effects in children. This prospective observational study was carried out with 100 children in the pediatrics department of a tertiary care hospital in south India. IRB approval was obtained prior to start of the study and informed parent consent & child assent obtained from each enrolled patient. Questions regarding socializing with others, duration of play, eye contact, response to others, screen time, repetitive behavior, anxious behavior, anger / irritability, emotional imbalance, academic performance, eating problems were asked of parents regarding the children and compared the behavior during pre-covid and post-covid. Comparisons were statistically significant and demonstrated that COVID- 19 lockdown showed great impact on children's behavior and lifestyle changes.

Poster: 89

### **Measurement of Risk of Coronary Artery Disease Based on Lipid Profile Parameters in 1000 Local Population of South India During a Period of 5 Years**

*Satheesh S Gottipati, Sri Lekha Bollepalli, Naga Sri Haritha P, Satyavathi M, Gowthami N, Sruthi Reddy V, Bhargavi V, and Laharika Bai R*  
*Sponsor: M. Chandra Sekar*

Our aim of the study was to assess the risk of developing coronary artery disease in the future by correlating the lipid profile with the incidence of the disease. This 6-month Retrospective Observational study was carried out on 1000 population visited Cardiology out-patient department at Ramesh Hospitals, Guntur, India. IRB approval was taken prior to the initiation of the study. Generally, LDL values are considered to be superior to other lipid values in the lipid profile tests, however in our study we found that Triglycerides and NON-HDL values are equally superior to other lipid profile parameters in determining the risk of CAD. In lipid profile, simple assessment of Total Cholesterol can predict the risk of CAD equivalent to that of comprehensive lipid profiles. CAD is more common in people with sedentary lifestyles. The risk of developing CAD is higher in those who have both diabetes and hypertension.

Poster: 90

### **Lower Extremity Immersion on Exercise Recovery: A Critically Appraised Topic**

*Hanna Breidenbach*  
*Sponsor: Bart Welte*

Water immersions are common interventions employed by athletes for recovery of endurance training bouts. There are various types of water immersion interventions including cold, hot, and contrast (cold and hot applied intermittently). There are several factors that contribute to fatigue in endurance athletes including blood lactate concentration, central fatigue, peripheral fatigue, and general fatigue. The aim of this project was to determine what immersion interventions have a positive, negative, or no effect on recovery times and subsequent performance in endurance athletes.

Poster: 91

### **The Mental Health of Older Clients in a Skilled Living Facility**

*Trista Fintel*  
*Sponsor: Robin Walters-Powell*

The purpose of this study was to see the self-reported mental health status of Good Shepherd Home residents. Older clients often overlook their mental health, as well as those who are caring for them do. This study explored if their mental health has benefited or deteriorated during their time at Good Shepherd Home. It was hypothesized the mental health of Good Shepherd Home residents has declined since becoming residents. This hypothesis was tested through mixed methods using an in-depth and basic interview, a survey, and secondary analysis of patient charts. Predicted implications included how the mental health of older clients is diagnosed and cared for, which can inform family members on how their Good Shepherd Home family member's mental health is impacted and how they can assist in providing quality ongoing care for them.

Poster: 92

## **Low Back Pain Interventions: A Critically Appraised Topic**

*Paige Lucic*

*Sponsor: Bart Welte*

Chronic low back pain is one of the most common health conditions worldwide and affects nearly 80% of individuals during their active lives. Research was assimilated to compare the effectiveness of different interventions to alleviate low back pain, including the McKenzie Method, William's Exercises, traction therapy, traditional exercises, and aquatic therapy. The purpose of this critically appraised topic was to assess the effectiveness of each intervention for varying types of low back pain. The McKenzie Method, alone and with other forms of interventions, is effective in treating patients with disc pathologies and non-specific low back pain. Aquatic therapy is another effective intervention that can help reduce low back pain in individuals with varying needs.

Poster: 93

## **The Prevalence of the CYP3A4\*22 Variant Allele in a Rural Patient Population and its Implications in Clinical Practice**

*Alexandria Freehoffer, Gabriel Reyes, and Ryan Gildow*

*Sponsors: Julie Oestreich and Jason Guy*

Pharmacogenomics is an area of research which aims to provide potential explanations for the variability in drug response in different patient populations.<sup>1</sup> The primary goal of pharmacogenetic testing is to maximize safety and efficacy in pharmacotherapy. Cytochrome P450 (CYP) enzymes are major enzymes involved in drug metabolism. One of the primary CYP enzymes involved in drug metabolism is CYP3A4; research suggests that as many as 50% of all prescribed drugs are metabolized by CYP3A4.<sup>2</sup> A genetic variation has recently been identified which results in a variant CYP3A4\*22 allele and is associated with decreased metabolism.<sup>2</sup> This may result in drug-gene interactions with many commonly prescribed medications such as statins, immunosuppressants, chemotherapeutics, and more.<sup>3</sup> Genetic testing was performed on 98 patients to obtain genetic data for the CYP3A4\*22 allele in the context of a rural community. The data was analyzed to determine potential clinical implications.

Poster: 94

## **Urinary Incontinence Interventions: A Critically Appraised Topic**

*Emma Brown*

*Sponsor: Bart Welte*

Urinary incontinence is an important social issue in which a person leaks urine by accident. This can happen to anyone, but older, postmenopausal women are the population that suffers the most. Around 25-45% of all women will suffer from urinary incontinence at some point in their lives.<sup>1</sup> Although suffering from urinary incontinence can be embarrassing for patients, treatment options are available to combat their bothersome symptoms. The current recommended interventions for urinary incontinence include physical therapy, lifestyle changes, and pharmacological interventions.

Poster: 95

## **Viroject: The Environmental Syringe**

*Paulina Bucaro*

*Sponsor: Justin Rheubert*

This research addresses escalating environmental concerns related to medical waste through a novel biodegradable syringe using polyvinyl alcohol (PVA). Traditional syringes, predominantly non-biodegradable, contribute significantly to environmental threats. The study presents a 3D design and printed model of a PVA syringe, with future work exploring its feasibility, performance, and environmental impact. Investigating mechanical, chemical, and biodegradable properties, we aim to develop a medical-grade prototype and minimize the environmental footprint of traditional syringes. Assessments cover biocompatibility, safety, degradation kinetics, and environmental impact when comparing PVA syringes with traditional ones. This research can potentially revolutionize disposable medical equipment, most notably the syringes, offering a sustainable alternative aligned with global sustainability goals. Adopting PVA syringes could significantly reduce the environmental impact of medical waste, contributing to eco-friendly healthcare practices, and supporting the broader initiative of developing responsible alternatives in the medical field. This abstract was developed, in part, using ChatGPT.

Poster: 96

## **Telehealth in US Pharmacy Schools**

*Emily Thieda*

*Sponsor: Debra Parker*

The purpose of this investigation is to gather information pertaining to the incorporation of telehealth education in ACPE accredited pharmacy schools. The standards from ACPE 2016 include the expectation that pharmacy schools are to prepare students to work in a variety of areas. Therefore, incorporation of telehealth into pharmacy education is important in preparing students for future practice. This survey-based research aims to address a gap in literature regarding how pharmacy schools are incorporating telehealth into education and skills application opportunities. In an era of increasing telehealth (including increasing telehealth pharmacy services) this study will provide information heretofore unknown regarding incorporation of telehealth in pharmacy education and may demonstrate potential areas of growth for telehealth training in pharmacy schools. A survey pertaining to telehealth pharmacy education will be sent to a representative of each ACPE accredited pharmacy school.

Poster: 97

## **Developing a Skin Microbiome-based Probiotic Sunscreen Technology**

*Olivia Ruger*

*Sponsor: Nalinikanth Kotagiri*

It is estimated that 1 in 5 Americans will get a form of skin cancer in their lifetime – with the primary contributor being UV radiation. The FDA and CDC advise using sunscreen; however, the majority of sunscreens have limitations and pose a threat to marine life. This study aims to create an innovative probiotic sunscreen platform based on the skin microbiome; safeguarding the skin against damage caused by UV exposure and pollution. Human skin tissues were processed and cultured and plasmid containing shinorine was incorporated into E.coli. Skin tissues were then exposed to 135 mJ/cm<sup>2</sup> of UV-A and UV-B radiation. Afterward, immunohistochemical staining and enzymatic assays were performed. The findings suggest that extracted shinorine provides significant protection against UV radiation-induced apoptosis and DNA damage, while also exhibiting lower levels of antioxidant activity compared to negative controls.

Poster: 98

## **Assessing Inappropriate Use of Aspirin in Patients With AFIB/VTE- A Retrospective Chart Review**

*Regan Middendorf and Megan Foster*

*Sponsors: Suzanne Lifer and Laura Perry*

A retrospective chart review assessing patients on an oral anticoagulant and aspirin was completed to determine how many patients were eligible for deprescribing aspirin. Notes were sent to the physician with recommendations to discontinue aspirin when warranted. 246 patient charts were reviewed. 58 patients (24%) warranted a recommendation to discontinue or decrease the dose of aspirin. Of those 58 recommendations, 28 (48%) were accepted to discontinue aspirin and 5 recommendations (9%) were accepted to decrease to 81mg aspirin. Out of 58 recommendations, two (3%) were rejected by the physician. Seven recommendations (12%) could not be sent due to absent patient-provider relationship with primary care or cardiology at the practice. Sixteen recommendations (28%) could not be sent because the patient had not been seen in over two years or longer. Based on the study results, pharmacist-led recommendation was an effective way to deprescribe aspirin in a small-private practice in northwest Ohio.

Poster: 99

## **Effects Of A Pharmacist-Led Deprescribing Initiative in a Family Medicine Residency Clinic**

*Elizabeth Nejadfard*

*Sponsor: Debra Parker*

Polypharmacy refers to the concurrent use of multiple medications by an individual, often involving prescription, over-the-counter, and complementary or alternative medicines. While polypharmacy is often necessary for managing complex health conditions, deprescribing offers a rational and patient-centered approach to mitigate potential risks and optimize the use of medications for improved overall well-being. This study will focus on the number of medications deprescribed in a geriatric population within a primary care setting; it also will examine secondary outcomes such as cost savings and intervention time after the implementation of a pharmacist-led deprescribing initiative. This research questions to what extent does pharmacist involvement in deprescribing impact patient outcomes and potential medication-related problems in the elderly population. The data will be compared to historical data and analyzed and reported with a combination of descriptive statistics for categorical variables and means and percentages used for continuous variables.



Poster: 100

## **Impact of Continuous Glucose Monitoring on Glycemic Control in Patients Receiving DSMES Services**

*Alli Siefker and Kendra Ellerbrock*

*Sponsor: Debra Parker*

Continuous glucose monitors like Dexcom and Freestyle Libre are becoming increasingly common among diabetic patients in place of the traditional fingerstick method for blood glucose monitoring. Along with advances in monitoring technology, Diabetes Self-Management and Educational Support, called DSMES, is being used to educate patients about their disease in order for the most effective glycemic management. In order to better understand the effect of both DSMES and CGM monitoring, we hypothesized that there would be a greater decrease in hemoglobin A1c for patients receiving these services in comparison to patients not receiving DSMES. Our research is currently still in progress so no results can be reported at this time.

# Index

## Oral Presentations

Ahmed, Lilly	COE	1:30-1:50	DAVIS 186
Baracz, Jillian	CAHSS	3:00-3:20	Whitson (CBSL 232)
Bettar, Sidi	COS	2:00-2:20	DAVIS 102
Better, Malek	COS	1:30-1:50	DAVIS 102
Boyer, Olivia	COS	1:30-1:50	Whitson (CBSL 232)
Bryan, Grant	COS	2:30-2:50	DAVIS 102
Cozette, Reilly	COS	3:00-3:20	DAVIS 102
Davis-Meyers, Kelly	COE	2:00-2:20	DAVIS 186
Dennen, Justin	COE	3:00-3:20	DAVIS 186
Doepker, Keith	COS	3:00-3:20	DAVIS 102
Durden, Emanuel	CAHSS	1:00-1:20	DAVIS 181
Falcone, Emily	COS	3:00-3:20	DAVIS 188
Falk, Paige	CAHSS	1:30-1:50	DAVIS 188
Foster, Jordan	COE	1:00-1:20	DAVIS 186
French, Amanda	CAHSS	2:00-2:20	Gupta (CBSL 237)
Gigante, Amanda	COS	3:00-3:20	DAVIS 188
Gordon, Stephanie	CAHSS	1:00-1:20	Whitson (CBSL 232)
Haag, Ashley	COHP	2:00-2:20	DAVIS 181
Holbert, Devon	CAHSS	2:00-2:20	DAVIS 188
Hord, Dominic	COS	3:00-3:20	DAVIS 102
Keener, Bruce	COS	1:00-1:20	DAVIS 102
Kostka, Meghan	COS	3:00-3:20	DAVIS 188
Krakomperger, Jenna	COB	2:30-2:50	DAVIS 181
Laskova, Lidia	COS	1:30-1:50	DAVIS 102
Ledezma, Braxton	COS	1:30-1:50	DAVIS 102
Luke, Samuel	COS	2:30-2:50	DAVIS 102
Maier, Zoe	COHP	1:30-1:50	DAVIS 181
Mitchell, Zachary	COS	2:30-2:50	DAVIS 102
Palushaj, Christian	COS	2:00-2:20	DAVIS 102
Perry, Lauren	CAHSS	2:30-2:50	Whitson (CBSL 232)
Ponce, Debra	COE	2:30-2:50	DAVIS 186
Purves, Cora	CAHSS	3:00-3:20	Gupta (CBSL 237)
Rohrs, Samantha	COB	1:00-1:20	DAVIS 188
Sesay, Hassan	COS	2:00-2:20	DAVIS 102
Springer, Cody	CAHSS	3:00-3:20	Gupta (CBSL 237)
Styer, Owen	COS	2:30-2:50	DAVIS 102
Thomas, Jacob	COS	2:30-2:50	DAVIS 188
Thomas, Tyler	COS	3:00-3:20	DAVIS 102
Thompson, Mackenzi	COE	1:00-1:20	DAVIS 186
Thompson, Rebecca	CAHSS	3:00-3:20	Gupta (CBSL 237)
Trubee, Gavon	COS	2:00-2:20	DAVIS 102
Tuttle, Mason	COE	1:00-1:20	DAVIS 186
Vejsicky, Sarah	COS	1:30-1:50	Gupta (CBSL 237)
Vejsicky, Sarah	COS	2:30-2:50	Gupta (CBSL 237)
Vejsicky, Sarah	CAHSS	3:00-3:20	Gupta (CBSL 237)
Wooddell, Skylar	CAHSS	1:00-1:20	Gupta (CBSL 237)
Wooddell, Skylar	CAHSS	2:00-2:20	Whitson (CBSL 232)
Wooddell, Skylar	CAHSS	3:00-3:20	Gupta (CBSL 237)
Wurm, Cecilia	COE	1:00-1:20	DAVIS 186

## Poster Presentations

Acker, Caleb	COS	Poster Number:	2
Al Jubury, Gheed	CPHM	Poster Number:	69
Anderson, Lauren	COS	Poster Number:	7
Anderson, Sarah	CPHM	Poster Number:	16
Arnholt, Alexandra	COS	Poster Number:	26
Atmakuri, Vennela	CPHM	Poster Number:	88
Bacher, Mackenzie	CAHSS	Poster Number:	8
Bacher, Mackenzie	CAHSS	Poster Number:	41
Baker, Haley	CPHM	Poster Number:	1
Banta, Taylor	CAHSS	Poster Number:	6
Benroth, Lauren	COB	Poster Number:	72
Bentley, Samantha	CPHM	Poster Number:	56
Berg, Millie	COS	Poster Number:	48
Bishop, Alexis	COS	Poster Number:	18
Bollepalli, Sri Lekha	CPHM	Poster Number:	89
Bove, Luigi	COB	Poster Number:	63
Breidenbach, Hanna	COHP	Poster Number:	90
Britton, Zack	COB	Poster Number:	52
Brown, Emma	COHP	Poster Number:	94
Bryan, Grant	COS	Poster Number:	48
Bucaro, Paulina	COS	Poster Number:	95
Burke, Meghan	CAHSS	Poster Number:	5
Buskirk, Audrey	COS	Poster Number:	7
Carter, Quinn	COS	Poster Number:	13
Chandarlapati, Sahithi	CPHM	Poster Number:	88
Creed, Taylor	COHP	Poster Number:	32
Crutchfield, Lauren	COS	Poster Number:	81
Curnutte, Dillen	COS	Poster Number:	13
Curnutte, Dillen	COS	Poster Number:	14
Dalal, Mouna	CPHM	Poster Number:	10
Daria, Jenna	CAHSS	Poster Number:	4
Delpe, Changlena	CPHM	Poster Number:	69
Deta, Vamsi Kanthi Kiran	COE	Poster Number:	23
Devan, Magdalena	COS	Poster Number:	59
Devi Varaprasad, Abdas	COS	Poster Number:	47
Dhariwal, Harbinder	CPHM	Poster Number:	15
Doster, Ava	CAHSS	Poster Number:	77
Duxbury, Parker	COS	Poster Number:	12
Dykin, Kayla	COB	Poster Number:	62
Ellerbrock, Kendra	CPHM	Poster Number:	100
Faulkner, Morgan	COS	Poster Number:	40
Fauver, Katie	CPHM	Poster Number:	16
Fintel, Trista	COHP	Poster Number:	91
Foster, Megan	CPHM	Poster Number:	98
Frazier, Elizabeth	CPHM	Poster Number:	15
Frazier, Kirsten	CAHSS	Poster Number:	73
Frazier, Kirsten	CAHSS	Poster Number:	74
Freehoffer, Alexandria	CPHM	Poster Number:	93
Frimpong, Benjamin	COS	Poster Number:	24
Fusco, Anthony	COHP	Poster Number:	31
G., Naga Sai Prakash Reddy	CPHM	Poster Number:	87
G., Sindhu	CPHM	Poster Number:	87
Garcia, Sienna	CAHSS	Poster Number:	4
Garcia, Sienna	CAHSS	Poster Number:	8

Garcia, Sienna	CAHSS	Poster Number:	20	Middendorf, Regan	CPHM	Poster Number:	98
Garrison, Stephen	CPHM	Poster Number:	56	Miller, Brent	Business	Poster Number:	49
Gildow, Ryan	CPHM	Poster Number:	93	Miller, Laura	COS	Poster Number:	13
Good, Brandon	COB	Poster Number:	53	Miller, Laura	COS	Poster Number:	14
Gorant, Alexis	COB	Poster Number:	54	Miller, Luke	COE	Poster Number:	18
Gottfried, Charity	CPHM	Poster Number:	15	Mitchell, Zachary	COS	Poster Number:	48
Gottipati, Satheesh S	CPHM	Poster Number:	87	Murphy-Morrow, Isabella	COB	Poster Number:	3
Gottipati, Satheesh S	CPHM	Poster Number:	88	N, Gowthami	CPHM	Poster Number:	89
Gottipati, Satheesh S	CPHM	Poster Number:	89	Nagathota, David			
Guyer, Sydney	COHP	Poster Number:	31	Garfield Stevenson	COS	Poster Number:	27
Haase, Madeline	COS	Poster Number:	13	Neff, Emily	CPHM	Poster Number:	16
Haase, Madeline	COS	Poster Number:	14	Neff, Sara	CAHSS	Poster Number:	4
Habra, Joseph	COS	Poster Number:	21	Neff, Sara	CAHSS	Poster Number:	43
Haines, Jordan	CAHSS	Poster Number:	76	Nejadfard, Elizabeth	CPHM	Poster Number:	99
Harr, Olivia	CPHM	Poster Number:	1	P, Naga Sri Haritha	CPHM	Poster Number:	89
Hess, Audrey	CAHSS	Poster Number:	29	P., Siva Sai Mallik	CPHM	Poster Number:	88
Hickey, Dylan	COB	Poster Number:	46	Patel, Anjali	CPHM	Poster Number:	56
Hodge, Jacob	COS	Poster Number:	13	Perkins, Camden	Business	Poster Number:	66
Hosey, Maxwell	COB	Poster Number:	58	Plotner, Maile	CPHM	Poster Number:	71
Illig, Jenna	COS	Poster Number:	51	Pourabdollah Khadar,			
Jackson, Kalena	COB	Poster Number:	75	Mohammad Mahyar	COS	Poster Number:	55
Jagarlamudi, Teja Sai	COS	Poster Number:	39	Professori, Donnie	COB	Poster Number:	45
Johns, Brady	COB	Poster Number:	50	R, Laharika Bai	CPHM	Poster Number:	89
Johnson, Celia	COHP	Poster Number:	31	Raut, Dhirat	COS	Poster Number:	30
Johnson, Michael	COS	Poster Number:	13	Ravuri, Subbarao	COE	Poster Number:	38
Johnson, Michael	COS	Poster Number:	14	Reyes, Gabriel	CPHM	Poster Number:	93
Jones, Ryleigh	COS	Poster Number:	13	Rider, Anna	COB	Poster Number:	86
K.Y.M., Sirisha	CPHM	Poster Number:	88	Ridgely, Jade	CAHSS	Poster Number:	73
Kadiveti,				Ridgely, Jade	CAHSS	Poster Number:	80
Lakshmi Sai Kaivalya	COS	Poster Number:	33	Ruger, Olivia	COS	Poster Number:	97
Kehres, Reegan	COS	Poster Number:	9	Ruggiero, Klair	CPHM	Poster Number:	71
Khammanh, Evelyn	CPHM	Poster Number:	56	Rybicki, Jenna	CAHSS	Poster Number:	59
Klug, Samantha	COS	Poster Number:	26	S., Honey Hasini	CPHM	Poster Number:	87
Knick, Jaysen	COB	Poster Number:	83	S., Kumaravelu	CPHM	Poster Number:	87
Kolla, Radhika Chowdary	COS	Poster Number:	35	Sawaged, Julian	CPHM	Poster Number:	15
Korhorn, Nick	COB	Poster Number:	85	Schaney, MaKenna	COB	Poster Number:	64
Landers, Jagger	COB	Poster Number:	61	Schimmoller, Dylan	COB	Poster Number:	68
Lane, Ainslie	CAHSS	Poster Number:	5	Schwartzfisher, Anna	COS	Poster Number:	57
Lape, Mackenzie	CAHSS	Poster Number:	78	Scoggins, Emily	CAHSS	Poster Number:	59
Laskova, Lidia	COS	Poster Number:	48	Selders, Hailey	CPHM	Poster Number:	17
Laux, Melissa	COS	Poster Number:	13	Selders, Hailey	CPHM	Poster Number:	56
Lescody, Aurora	COB	Poster Number:	65	Sesay, Hassan	COS	Poster Number:	48
Leszczynski, Allison	CPHM	Poster Number:	28	Shoemaker, Carson	CPHM	Poster Number:	15
Lopinti, Suresh	COS	Poster Number:	25	Shoop, Alexis	COB	Poster Number:	84
Lucic, Paige	COHP	Poster Number:	92	Siddiqui, Safiuddin	COS	Poster Number:	60
M, Satyavathi	CPHM	Poster Number:	89	Sk., Dehanaz Begum	CPHM	Poster Number:	87
M., Lakshmi Sukanya	CPHM	Poster Number:	88	Sk., Nazreen Banu	CPHM	Poster Number:	88
Machunuru, Upendra	COS	Poster Number:	42	Slovak, Kennedy	COB	Poster Number:	67
Mahaffey, Liberty	CAHSS	Poster Number:	22	Snay, Joshua	COS	Poster Number:	13
Mahaffey, Liberty	CAHSS	Poster Number:	41	Snay, Joshua	COS	Poster Number:	14
Marcuzzi, Julia	COS	Poster Number:	48	Spicher, Brynn	COS	Poster Number:	26
Martin, Taryn	COS	Poster Number:	7	Steiner, Blake	COB	Poster Number:	70
Mcavoy, Matthew	CPHM	Poster Number:	15	Siefker, Alli	CPHM	Poster Number:	100
McCann, Kaylie	COS	Poster Number:	57	Styer, Owen	COS	Poster Number:	48
McMillan, Annabelle	COS	Poster Number:	40	Thieda, Emily	CPHM	Poster Number:	96
McMillan, Annabelle	COS	Poster Number:	59	Thompson, Rebecca	CAHSS	Poster Number:	19
Meeker, Bailee	CPHM	Poster Number:	16	Thorbahn, Joshua	COB	Poster Number:	44
				Tyler, Hannah	COS	Poster Number:	11

V, Bhargavi	CPHM	Poster Number:	89
V, Sruthi Reddy	CPHM	Poster Number:	89
V., Nissi Joseph	CPHM	Poster Number:	87
Varma, Vineel	COS	Poster Number:	36
Vennekotter, Brooke	CAHSS	Poster Number:	74
Vennekotter, Brooke	CAHSS	Poster Number:	80
Vidiyala, SatyaSaiPavanKumar	COS	Poster Number:	34
Waldman, Samuel	COS	Poster Number:	20
Waldman, Samuel	COS	Poster Number:	22
Waldman, Samuel	COS	Poster Number:	59
Walsh, Kennedy	COHP	Poster Number:	82
Weihrauch, Courtney	CPHM	Poster Number:	71
Weingart, Jilella	CPHM	Poster Number:	17
Willms, Paige	CPHM	Poster Number:	28
Wright, Avery	CAHSS	Poster Number:	79
Yalavarthi, Maha Lakshmi Soumya	COS	Poster Number:	37

# Special Thank You

## **SSC Committee**

Darin Fields  
Tiffany Koenig  
Kit Medjesky  
Rebecca Quintus  
Beverly Roth  
Renee Schafer  
Helen Schneider  
Mariah Schroeder  
Chandra Sekar  
Jennifer Theriault  
Joon-Young Song  
Robin Walters-Powell  
Fang Wang

## **Call for Proposals Designer**

Brooke Bleile

## **Program Cover Designer**

Brooke Bleile



University of Findlay®

**SYMPOSIUM**



**FOR SCHOLARSHIP &**

**CREATIVITY | 2024**