April 14, 2023
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Butler University is pleased to once again host the Undergraduate Research Conference (URC), an event that has a rich history going back to 1988. For the first time since 2019, we welcome guests to our campus, and we are delighted to be able to recognize your exceptional research and scholarship at the URC once again.

From its beginnings, the Butler URC has promoted excellence and encouraged undergraduate students to showcase their research efforts. We are very pleased to welcome 300 undergraduates from 13 institutions to campus. We are well on our way to reestablishing the Butler URC to one of the largest interdisciplinary undergraduate research conferences in the country.

I would like to thank the many people who have planned and prepared for the return of the URC this year. From the student presenters, the faculty advisors, the conference moderators, the conference and events staff, to the Provost’s Office, your hard work and dedication have provided a conference of new and renewed connections.

Best of luck to each of you as you present your work today. Please remember to support your colleagues by attending as many sessions as you can, and fully engaging in this exchange of ideas and sharing of knowledge. I trust that the 2023 Butler URC will inspire you to continue to pursue knowledge as you seek to offer the world solutions to the many challenges we face.

Sincerely,

James M. Danko, President
Butler University
Schedule

10:00 - 10:30 Arrival/Check-in
10:30 - 12:00 Poster Session A - Reilly Room
12:00 - 1:00 Lunch
1:00 - 2:15 Oral Presentation Session 1
2:15 - 2:30 Break
2:30 - 3:45 Oral Presentation Session 2
3:45 - 4:00 Break
4:00 - 5:30 Poster Session B - Reilly Room
Oral Presentation Schedule

Anthropology/Archaeology/Classics/History

Session ONE A: Myth, Folklore, and Identity - Levinson Family Hall 218
Moderator: Dr. Jeana Jorgensen
01:00 PM - Putting the ‘fun’ in Dysfunctional: A Deeper Look into the Macedonian Royal Family
   Lauren Ontl, Ball State University: Christine Shea, mentor
01:15 PM - Alexander the Great and His Use of Dionysian Myths
   Lynette Guffey, Ball State University: Christine Shea, mentor
01:30 PM - Understanding Orpheus: A Review of Artistic Depictions and Changes Through Time
   Gansey Petroff, Butler University: Lynne Kvapil, mentor
01:45 PM - Hermione: The Next Generation
   Karrington Tabor, Butler University: Lynne Kvapil, mentor
02:00 PM - Medusa as an Icon of Feminism
   Via Sarjent, Butler University: Lynne Kvapil, mentor

Session ONE B: Politics and Identity in Mediterranean Antiquity - Levinson Family Hall 223
Moderator: Dr. Lynne Kvapil
01:00 PM - Mythology in Metal: Alexander the Great's Coins
   Alyssa Bergstrom, Ball State University: Christine Shea, mentor
01:15 PM - The Military Reforms of Philip II and Alexander III
   Nicholas Alexander, Ball State University: Christine Shea, mentor
01:30 PM - Roman Identity Construction in Rome’s Greek Provinces
   Sophie Graham, Butler University: Lynne Kvapil, mentor
01:45 PM - The “Deviant” Dead
   Aidan Gregg, Butler University: Lynne Kvapil

Session TWO: Fashioning Gender, History, and Citizenship - Levinson Family Hall 218
Moderator: Dr. Jeana Jorgensen
02:30 PM - Transnational, Queer Feminist: Remembering Harriet Noble, Indiana’s Prominent Suffragette, 1851-1919
   Emma Gifford, Butler University: Vivian Deno, mentor
02:45 PM - Dismantling the Great War's Draft: The Anarchist Women’s Fight to End an Unconstitutional Demand
   Pierce Greer, Butler University: Vivian Deno, mentor
03:00 PM - Stanisławowo-Trojcowo: Visualizing Urban and Immigrant History
   Natalie Long, Butler University: Vivian Deno, mentor
03:15 PM - From Hatpin to Violence: The Impact of Women's Self Defense and the Network of British and American Women, 1903-1909
Katie Stamatis, Butler University: Vivian Deno, mentor

**Art (Art + Design, Painting, Photography)/Music**

Session ONE: Levinson Family Hall 136
Moderator: Dr. Peter Wang
01:00 PM - **Picture the Problem: A Photography Series**
Anna Sullivan, Butler University: Steve Nyktas
01:15 PM - **Fusion Before Fusion: How Dave Brubeck Serves as a Catalyst of the Jazz Fusion Movement**
Alexandra Spees, Butler University: Sophie Benn, mentor
01:30 PM - **Connections**
Hayley Gardner, Butler University: Dr. Peter Wang, mentor
01:45 PM - **The Female Experience as Seen in Greek Mythology**
Jacqueline Mullins, Butler University: Dr. Peter Wang, mentor
02:00 PM - **Back to My Roots: A Floral Representation of Home and Abroad**
Lexi Harford, Butler University: Dr. Peter Wang, mentor

Session TWO: Levinson Family Hall 136
Moderator: Dr. Peter Wang
02:30 PM - **Intrusive**
Grace Carpenter, Butler University: Dr. Peter Wang, mentor
02:45 PM - **Kamay**
Lucia (Lucy) Thomason, Butler University: Dr. Peter Wang, mentor
03:00 PM - **Solarpunk Machines that Utilize Clean Energy**
Sa’adiya Tai, Butler University: Dr. Peter Wang, mentor
03:15 PM - **Calypso the Autistic Crow: Meaningful Representation of Autism in Children’s Literature**
Madelin Snider, Butler University: Dr. Peter Wang, mentor
03:30 PM - **A College Montage: Through the Eyes of a Designer**
Stephanie Suh, Butler University: Dr. Peter Wang, mentor

**Astrophysics & Astronomy/Computational Number Theory**

Session ONE: Levinson Family Hall 132
Moderator: Dr. Jonathan Sorenson
02:30 PM - **An Algorithm to Compute Sums of Powers of Primes**
Aryn Stahl, Butler University: Jonathan Sorenson, mentor
02:45 PM - Rapid Period Changes of 5 RR Lyrae Variables in the Globular Cluster NGC 6402 (M14)  
    Josh Wanninger, Butler University; Brian Murphy, mentor

**Biology/Chemistry/Biochemistry**

Session ONE: Levinson Family Hall 131  
Moderator: Dr. Ben Spears
01:00 PM - Northern Spicebus (Lindera Benzoin) Induces Apoptosis in Cancer Cells and Inhibits Proliferation of RSV  
    Max Brasseale, Adam Simons, Breckin Judd, Jacob Moelenkamp, Butler University; Christopher Stobart and Ashlee Tietje, mentors
01:15 PM - Targeting Cyclin Dependent Kinases in Mantle Cell Lymphoma  
    Jacob Rashid, Butler University; Chioniso P. Masamha, mentor
01:30 PM - Design, Synthesis, and Computational Analysis of a Gram Negative Bacteria GyrB/ParE Dual Inhibitor  
    Emily Langston, University of Evansville; Roslyn Lampkins, mentor
01:45 PM - Microscopic Analysis of Multinucleated Syncytia Formation by Human Respiratory Syncytial Virus (hRSV) InVitro  
    Lyla Vivian, Butler University; Christopher Stobart, mentor

Session TWO: Levinson Family Hall 132  
Moderator: Dr. Jen Kowalski
01:00 PM - Susceptibility of the 3C-like Proteases (3CLpro) of Human Coronaviruses HKU1 and OC43 to Inactivation by Resveratrol  
    Andrew Burdette, Butler University; Christopher Stobart, mentor
01:15 PM - The Annotation of Ilp3 in D. arizonae  
    Jacob Jones, Taylor University; Sara Justice, mentor
01:30 PM - Evaluating the Inhibitory Ability of Baicalein on Replication of MHV Chimeras Expressing HKU1 and OC43 Human Coronavirus Proteases  
    Elise Huffman, Butler University/Desales University; Christopher Stobart, Dia Beachboard, mentors
01:45 PM - Investigation of Cell Autonomous and Nonautonomous Signaling of the G Protein-Coupled Receptor, FSHR-1, in Controlling Neuromuscular Structure and Function in C. elegans  
    Makenzi McClain, Butler University; Jennifer Kowalski, mentor

Session THREE: Levinson Family Hall 131  
Moderator: Dr. Mark Macbeth
02:30 PM - Verification of Fusion Transcripts in Mantle Cell Lymphoma  
    Caiden Lukan, Butler University; Chioniso P. Masamha, mentor
02:45 PM - Analysis of Strain-specific Inactivation of Human Respiratory Syncytial Virus (hRSV) by the natural Inhibitor Thapsigargin
   Stefania Farha, Butler University: Christopher Stobart, mentor

03:00 PM - The G protein-coupled receptor (GPCR) FSHR-1 and the SPHK-1 lipid kinase regulate C. elegans Life and Healthspans via a Common Pathway
   Ryan Adkins, Butler University: Jennifer Kowalski, mentor

03:15 PM - Development of a Mathematical Model to Describe the Formation of Multinucleated Syncytia by Pneumoviruses and Coronaviruses
   Emily Landwehr, Butler University: Christopher Stobart, Scott Kaschner, mentors

03:30 PM - Potential Regulation of SYD-2 Liprin α Protein Abundance by the Anaphase Promoting Complex (APC) and UNC-43 CaM Kinase II in C. elegans
   Anna Pressel, Butler University: Jennifer Kowalski, mentor

Critical Communication & Media Studies/Speech Language

Session ONE: Jordan Hall Room 170
Moderator: Dr. Kristin Swenson
01:00 PM - Looking Green: A Rhetorical Analysis of Greenwashing in Fossil Fuel Advertisements
   Elizabeth Hein, Butler University: Dr. Kristin Swenson, mentor

01:15 PM - Trevor Noah’s Technique of Humor
   Franklin Akers III, Butler University: Dr. Kristin Swenson, mentor

01:30 PM - “My Fellow Americans”: Changes in Rhetoric in the Presidential Inaugural Addresses of the Sixth Party System
   Rossell Brewer, Butler University: Robert Norris, mentor

Session TWO: Jordan Hall 242
Moderator: Dr. Mary Gospel
01:00 PM - A Comparative Look at How Professionals Perceive Social Communication
   Samantha McDonald, Butler University: Tonya Bergeson, mentor

01:15 PM - Multimodal Communication Support for Word Recognition and Literacy in Children with Language Delays
   Mackenzie Beal, Butler University: Suzanne Reading, mentor

01:30 PM - Effects of Facemasks and Virtual Lecture Environments
   Hannah Schafer, Butler University: Tonya Bergeson, mentor

01:45 PM - Aphasia-Friendly Reading Comprehension Training to Enhance Nutritional Literacy
   Lexi Schell, Butler University: Dr. Mary Gospel, Jane Gervaiso, Katy Maher, mentors

02:00 PM - The Effects of Multisensory Music Experience on Sundowning Symptoms in Adults Diagnosed with Dementia
   Kaylin Todor, Butler University: Tonya Bergeson, Tara Lineweaver, mentor
English

Session ONE: Dugan Hall 347
Moderator: Dr. Natalie Carter
01:00 PM - Dobby is Not a Free Elf
  Miranda Emerick, Butler University: Natalie Carter, Ph.D., mentor
01:15 PM - Our Gender Codes, Ourselves: What Kate Chopin's The Awakening and F. Scott Fitzgerald's Tender is the Night Reveal about 20th Century Gender Roles
  Madeline Eary, Butler University: Natalie Carter, Ph.D., mentor
01:30 PM - Feminism's Forgotten Frontier: Why Menstrual Liberation is Necessary for Achieving Embodied Subjecthood in Western Society
  Madeline Eary, Butler University: Dr. Teigha VanHester, mentor
01:45 PM - In Defense of Meg March
  Morgan Mead, Butler University: Natalie Carter, Ph.D., mentor

Session TWO: Dugan Hall 347
Moderator: Dr. Rocky Colavito
01:00 PM - Crisis of Self; The Monster in Defying Categorization and Erasure
  Elijah Smith, Butler University: Rocky Colavito, mentor
01:15 PM - A Diet of Worms: How Capitalism Feeds Us Isolation & Otherness Through Wage Labour
  Aiden Smith, Butler University: Lynne Kvapil, mentor
01:30 PM - "A Passport to Remain": Apologies and Invisibility in Ocean Vuong's On Earth We’re Briefly Gorgeous
  Mia Butler, Butler University: Ania Spyra Ph.D., mentor
01:45 PM - White Freedom: The Role of Racial Identity in Understanding the American Dream in Vietnamese American Literature
  Ben Leising, Butler University: Ania Spyra, Ph.D., mentor
02:00 PM - Striving for Transcendence: Translation and Language in Theresa Cha's Dictee and Ocean Vuong's On Earth We're Briefly Gorgeous
  Violet Ross, Butler University: Ania Spyra, mentor

Session THREE: Dugan Hall 351
Moderator: Dr. Rocky Colavito
02:30 PM - The Monster that Never Dies: Dissecting Cohen’s Second Monster Thesis
  Ollie Sikes, Butler University: Joseph Colavito, mentor
02:45 PM - The Monsters of Misogyny
  Joy Brown, Butler University: Joseph Colavito, mentor
03:00 PM - Tourist Culture Sucks and So Does Running Away From Your Dark Past (An Analysis of "Wish You Were Here" by Nadia Bulkin)
  Mya Tran, Butler University: Joseph Colavito, mentor
03:15 PM - *Ignorance is Not Bliss: The Depiction of Difference in Terence Taylor’s “Wet Pain”*
   Tori Satchwell, Aidan Smith, Elijah Smith, *Butler University*: Rocky Colavito, mentor

03:30 PM - *“Everyone Learns, Nobody Changes”: Images and the Ideal in Anna Karenina and Closer*
   Leah Kiers, *Taylor University*: Nancy Dayton, mentor

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**Philosophy/Religious Studies/Commentary**

Session ONE: *Dugan Hall 351*

Moderator: Dr. Chad Bauman

01:00 PM - *Dilemmas of Difference and Nonhuman Animals: Applying Feminist Insights to Animal Rights Law*
   Ethan Shopmeyer, *Butler University*, Lavender McKittrick-Sweitzer, mentor

01:15 PM - *Care, Community, and Epistemic Resistance*
   Zoe Stapleton-Deno, *Butler University*, Lavender McKittrick-Sweitzer, mentor

01:30 PM - *What We Have to Offer: Making the Case for Gender Non-Conforming Space in the Church through an Analysis of its History*
   Delaney Beh, *Butler University*: Brent Hege, mentor

01:45 PM - *The Vaad Hatzalah and Abraham Joshua Heschel*
   Andrew Steele, *Butler University*: Vivian Deno, mentor

02:00 PM - *La mujer almodovariana: modernizando la feminidad*
   Mary Griffin, *Butler University*: Terri Carney, mentor

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**Political Science**

Session ONE: *Jordan Hall 242*

Moderator: Dr. Jishnu Guha-Majumdar

02:30 PM - *The Relationship Between Racial Perceptions and Felon Disenfranchisement*
   Andrea Rahman, *Franklin College*: Randall Smith, mentor

02:45 PM - *Fuel to the Flame: Rhetoric in Ethnic Conflict*
   Clayton Black, *Franklin College*: Randall Smith, mentor

03:00 PM - *Hate or Southern Identity? Northern Opinion on Confederate Monument Removal*
   Annah Elliott, *Franklin College*: Randall Smith, mentor

03:15 PM - *Religiously Voting: Religiosity and its Influence on Voter Turnout*
   Zachary Roberts, *Franklin College*: Randall Smith, mentor

03:30 PM - *Abigail Ball, Butler University*, mentor
Psychology

Session 1: Gallahue Hall 103
Moderator: Dr. Robert Padgett

01:00 PM - Attachment Style and Chapman’s Love Languages
Aiden Stoner, Michael Taylor, Hanover College: Mary Saczawa, Anjali Mishra, mentors

01:15 PM - Levels of Anxiety and Depression on College Athletes
Le’Ron Fleming, Drew Murray, Hanover College: Mary Saczawa, Anjali Mishra, mentors

01:30 PM - To Promote or Prevent? That is the Question We Will Answer: How Young Adults’ Self-Regulatory Focus Guides Their Memory Strategy Selection
Kylie Washel, Nathan Aardsma, Butler University: Dr. Tara Lineweaver, mentor

01:45 PM - Beyond ESA: The Advantages of Pet Ownership for All College Students
Emory Ramsey, Hanover College: Stephen Dine-Young, mentor

02:00 PM - Sense of Belonging and Self-Esteem Across College Campuses
Emily Furgason, Mackenzie Mullen, Hanover College: Rachel Thomas, mentor

Session 2: Gallahue Hall 104
Moderator: Dr. Jennifer Berry

01:00 PM - African American Participation Levels at Hanover College
Maiya Sargent, Hanover College: Rachel Thomas, mentor

01:15 PM - The Impact of Language and Tone on the Trivialization of Mental Health
Chloe Baker, Madeleine Morstadt-English, Jess Ewing Hanover College: Stephen Dine-Young, mentor

01:30 PM - Mental Health, Task Performance, and Time Perception
Isaiah Jones, Hanover College: Mary Saczawa and Stephen Young, mentors

01:45 PM - The Super Student Training TEAM program: A Research-Grounded Framework for Student Achievement
Isabella Carlson, Ali Golden, Natalie Virgil, Butler University: Shelby Terwillegar, mentor

02:00 PM - Achievement Motivation in Science: The Relationship Between College Students’ Self-Concept and Fear of Failure
Nathan Marohn, Karlie Biddle, Makenna Frias, Jeffery Anton, Paige Endres, Sarina Essa, Butler University: Candice Drees, mentor

Session 3: Gallahue Hall 150
Moderator: Dr. Brian Day

01:00 PM - Investigating the Transfer of Calibration Between Hands and Visual Conditions
Addison Hensley, Meet Patel, Analise Richcreek, Bianca Pontrelli Butler University: Brian Day, mentor

01:15 PM - Affordance Norming and Investigating the Primacy of Affordances
Braden Weick, Logan Hess, Pierce Butler, Butler University: Brian Day, mentor
01:30 PM - Effects of Marijuana on Mood
  Alex Kidd, Hanover College: Mary Saczawa, Rachel Thomas, mentor

01:45 PM - Spin Me? Or Spin It? Mental Rotation Abilities and Approaches of Patients with Alzheimer's Disease or Huntington's Disease
  Alysa Aralis, Emma Bauman Butler University: Dr. Tara Lineweaver, mentor

02:00 PM - The Athlete Advantage: The Impact of Sport Participation on Auditory and Visual Reaction Times
  Allie Carmichael, Butler University: Brian Day, mentor

Session 4: Jordan Hall 183
Moderator: Dr. Karina Hamamouche

01:00 PM - Does Dancing Enhance Quantity Processing Abilities?
  Elliana Hamilton, Kennedy Culbertson, Samantha Larson, Madeleine Hall, Cate Clark, Butler University: Karina Hamamouche, mentor

01:15 PM - Do ACEs Impact Temporal and Numerical Processing?
  Brenna Mehringer, Kat Weil, Mar McAree, Butler University: Karina Hamamouche, mentor

01:30 PM - Confidence in Nonsymbolic Quantity Processing
  Josie Buendia, Liz Trueblood, Evan Sumner, Lucy Panyard, Butler University: Karina Hamamouche, mentor

01:45 PM - Positive Praise: An Observational Study on Motivation
  Cam Smith, Kendra Hutchison, Hanover College: Rachel Thomas, mentor

02:00 PM - Positive Impacts of Dungeons & Dragons on Identity Development in Young Adults
  Jace Roach, Hanover College: Stephen Dine-Young, Mary Saczawa, mentor

Session 5: Gallahue Hall 103
Moderator: Shelby Terwillegar

02:30 PM - Attitudes Toward and Factors Influencing ChatGPT Use: Comparing High School and College Students
  Bayleigh Double, Corynn Barton, Laney Marshall Huntington University: Rebekah Benjamin, mentor

02:45 PM - ChatGPT vs Google
  Melody Everett, Tayler Bedow, Breneah Hill, Jasmine Olivares, Huntington University: Rebekah Benjamin, mentor

03:00 PM - Factors Associated with AI-based Cheating Behavior in College Students
  Morgan Richison, Nikolas Benitez, Sarah Sexton, Huntington University: Rebekah Benjamin, mentor

03:15 PM - Ethical Attitudes Towards ChatGPT Among College Students,
  Sarah Smith, Jocelyn Patnaude, Amanda Lovejoy, Huntington University: Rebekah Benjamin, mentor

03:30 PM - College Students and ChatGPT: Factors Related to Willingness to Cheat,
  Kayli Iorio, Amber Elliot, Austin Rader, Huntington University: Rebekah Benjamin, mentor
Session 6: Gallahue Hall 104
Moderator: Dr. Stacy Wetmore
02:30 PM - "Ooo!" or "Ahh!" The Effects of Arousing Vs. Calming Music on Sundowning Symptoms of Elderly Patients with Dementia
  Nicole Hagen, Marissa Ward, Monica Williams, Butler University : Dr. Tara Lineweaver, mentor
02:45 PM - If Seeing is Believing, What is Hearing? Evaluating Emotion Recognition through Audio Clips vs. Facial Expressions
  Emily Patmore, Samantha Larson, Butler University : Dr. Tara Lineweaver, mentor
03:00 PM - The Effect of COVID-19 and the Media on Trust in the Healthcare System
  Analise Richcreek, Butler University : Brian Day, mentor
03:15 PM - Characterization of Auditory Physiology in FXS in Critical Developmental Timepoints
  Ishani Ray, Oklahoma State University : Elizabeth McCullagh, mentor

Session 7: Gallahue Hall 150
Moderator: Dr. Fabiana Alceste
02:30 PM - Discrimination by Association: The Role of Race and Exoneration in Hiring Decisions
  Emma Berquist, Butler University : Dr. Fabiana Alceste, mentor
02:45 PM - Perceptions of Disputed Interrogation Tactics
  Angie Zara, Butler University : Dr. Fabiana Alceste, mentor
03:00 PM - For Whom Does the Cue Transfer? Exploring the Efficacy of Congruent and Incongruent Identity-Safety Cues Among Sexual and Gender Minorities
  Avery Buck, Butler University : Dr. Fabiana Alceste, mentor
03:15 PM - Holding yourself captive virtually: Perceptions of custody in Zoom interviews
  Ian Carroll, Angie Zara, Butler University : Dr. Fabiana Alceste, mentor

Session 8: Jordan Hall 183
Moderator: Dr. Joel Martin
02:30 PM - Being Mindfully Pluralistic: The Effects of Mindfulness Meditation on Student Perceptions of Religious Pluralism
  Meet Patel, Butler University : Brian Day, mentor
02:45 PM - Characterizing and Assessing Relationships Between Joint Attention and Language Skills in Children with Neurogenetic Syndromes
  Haley Zeri, Sophie Mitchell, Jenna Wallner, Purdue University: Bridgette Kelleher, mentor
03:00 PM - How Did You COVID? The Effects of the Pandemic on Academic Approaches, Outcomes and Perceptions of College Students with and without ADHD
  Jacqueline Randall, Zoe Strepek, Butler University : Dr. Tara Lineweaver, mentor
03:15 PM - Positive and Negative Perceptions of Individuals with a Mental Illness: The Modern Viewpoint on Depression versus Schizophrenia
  Sabrina Stock, Aedan Levy, Butler University : Dr. Tara Lineweaver, mentor
Sociology/Criminology

Session ONE: Levinson Family Hall 223
Moderator: Dr. Stephen Barnard

01:00 PM - Building Community Resiliency Against Disasters
   Zach Doering, Butler University: Jesse Van Gerven, mentor

01:15 PM - The African American Experience in United States Emergency Departments
   Grace Sloan, Butler University: Krista Cline, mentor

01:30 PM - Infiltrating the Boys’ Club: The Portrayal of Women in Television Crime Dramas
   Emma Berquist, Butler University: Stephen Barnard, mentor

01:45 PM - Cannot Impede The Pedes: A Digital Ethnographic Content Analysis of How Political Beliefs are Conveyed on The Donald
   Laura Vandermeulen, Butler University: Stephen Barnard, mentor

02:00 PM - Years Playing Sport for Fun versus Competitively as a Predictor of Sports Performance
   Cassidy Spencer, Butler University: Krista Cline, mentor
Poster Presentation Schedule

Poster Session A: Reilly Room
10:30 AM - 12:00 PM

Poster Session B: Reilly Room
4:00 PM - 5:30 PM

Session A:
Even numbers present 10:30-11:15, Odd numbers present 11:15-noon, posters stay up the whole time.

1. Expression and Purification of P. Falciparum Cytochrome b5-2
   Afia Asamoah, Dawn Zhang, Taylor University: Daniel Kaluka, mentor

2. Back to My Roots: A Floral Representation of Home and Abroad
   Lexi Harford, Butler University: Dr. Peter Wang, mentor

3. Random Expansion of Substrate Specificity of Biocatalytic Esterase
   Cade Chezem, Butler University: Jeremy Johnson, mentor

4. Distinct Structural Region Controlling the Quaternary Structure of a Thermophilic Esterase
   Katherine Snook, Butler University: Jeremy Johnson, mentor

5. Quenching of Dynamic Shifts in the Tryptophan Fluorescence of an Acyl Protein Thioesterase in Response to Inhibitor Binding
   Makenna Marcinek, Butler University: Jeremy Johnson, mentor

6. The Annotation of The HDAC4 Gene in Drosophila Melanogaster
   Kwame Asamoah, Taylor University: Sarah Justice, mentor

7. Physical Modeling of Ring Canal Growth in Drosophila Melanogaster
   Ellery Gaffin, Butler University: Lindsay Lewellyn, mentor

8. Regulation of Neuromuscular Signaling Under Oxidative Stress by the FSHR-1 Receptor and its Potential Ligand FLR-2 in C. elegans
   Alexandra Alva, Butler University: Jennifer Kowalski, mentor
9. Dynamic Loop Movements in a Bacterial APT
   William Weiss, Butler University: Jeremy Johnson, mentor

10. Microplastics in the Gastrointestinal Tracts of Adult Migratory Birds
    Joel Wadas, Zac Stanley, Butler University: Shelley Etner, mentor

11. Initial Stages of DNA sequencing of the Whipple Azalea Garden at Taylor University
    Azucena Hernandez Santos, Taylor University: Sarah Justice, mentor

12. Annotation of the SCF Complex in Takashii and Novamexicana
    Hawkins Hochstedler, Taylor University: Sarah Justice, mentor

13. The Role of Rak1 in the Germline of the Developing Egg Chamber
    Rose Meyer, Butler University: Lindsay Lewellyn, mentor

14. Post translational Modification Sites in AtTCP8 IDR 2 Influence Localization and Interaction Behavior
    Maura Donnelly, Anna Childers, Butler University: Stacy Wetmore, mentor

15. Studies into the Therapeutic Potential of Botanical Extracts from Lamb's Ear (Stachys Byzantina) on Cancer Cell Proliferation and Virus Replication
    Natalie Link, Morgan Jackson, Milicia Nenadovich, Rebecca Hoff, Butler University: Ashlee Tietje, mentor

16. Design, Synthesis, and Computational Analysis of a Gram Negative Bacteria GyrB/ParE Dual Inhibitor
    Emily Langston, University of Evansville: Roslyn Lampkins, mentor

17. Computational Docking Investigations of a Purine Scaffold Inhibitor with E. coli AcrB Multidrug Efflux Pump
    Aidan Montoure, University of Evansville: Roslyn Lampkins, mentor

18. The Growth of Medicine in Alexander III's Empire
    Emma Snoeberger, Nick Alexander, Alyssa Bergstrom, Lauren Ontl Ball State University: Christine Shea, mentor

19. Association Between Maternal Anxiety in Toddlerhood and Child Anxiety in School-Entry Age Children Among Neurogenetic Syndrome Populations and Typically Developing Children
    Faith Anthony, Purdue University: Dr. Bridgette Kelleher, mentor

20. Difference in Dyadic Social Interactions Between Caregivers and their Children Across High-Risk Groups
    Allison Eisenhut, Danielle Wheeler, Joi Hunter, Purdue University: Dr. Bridgette Kelleher, mentor

21. Analyzing the Characteristics of the E-commerce Checkout Experiences of Small Businesses Focused on Retail Sales
    Janet Lovera, Butler University: Xiaowen Xu, mentor
22. Pre-Health Professional and Graduate Students in Patient Care Support Roles: A Measure of Burnout and Compassion Fatigue Rates in a COVID-19 World  
   Jacey Cornett, Butler University: Susanna Scott, mentor

23. Artificial Light at Night’s (ALAN) Effect on Urban Mammals  
   Noah Hamilton, Indiana University Purdue University - Indianapolis, Julia Angstmann mentor

24. Survey of Neurological Causes of Death from the Indiana Central State Hospital from 1899-1947  
   Vivian Valadares, Indiana University Purdue University - Indianapolis, George Sandusky, mentor

25. Examination of Andrographolide as a Potential Inhibitor of Coronavirus 3CLpro Proteases  
   Jon Brooks, Butler University: Christopher Stobart, mentor

26. Indy Wildlife Watch: Red Fox Preference for Vegetation Cover Changes Seasonally  
   Katarina Glueck, Butler University: Julia Angstmann, mentor

27. Repression of NMD Machinery in Response to Heat Shock Contributes to Upregulation of NMD Isoforms of the BRD8 Gene in Marchangia Polymorpha  
   Rebecca Ong, Taylor University: Lauren Woodward, mentor

28. Intersection of Spanish-speakers and Disability: Resources and Future Plans  
   Samantha McDonald, Butler University: Gabriela Muniz, mentor

29. Inhibiting S100B Using miRNA and Troubleshooting Cell Growth  
   Animesh Dalii, Robert Passarelli, Depauw University: Nipun Chopra, mentor

30. Sumoylation of TCP Family Transcription Factors Across Vascular and Non-Vascular Plant Species  
   Grace Lane, Sam Magnabosco, Butler University: Benjamin Spears, mentor

31. The More the Merrier: When Multiple Jailhouse Informants Testify  
   Ilanah Mangan, Anna Foster, Gabrielle Natalizio, Butler University: Stacy Wetmore, mentor

32. The Tale of Two Informants: Who Would You Believe?  
   Ana Foster, Butler University: Stacy Wetmore, mentor

33. The Effects of an Unorthodox Incentive For Jailhouse Informants on Juror Decision-Making  
   Gabrielle Natalizio, Butler University: Stacy Wetmore, mentor

34. Unraveling Chaos - How Cloud Seeding Could Impact Climate Change  
   Julia Herkert, Butler University: Gonzalo Ordonez, mentor

35. Language and Music in the Homes of Children with Cochlear Implants  
   Emma Sells, Emma Cunea, Butler University: Tonya Bergeson, mentor
36. **Testing a Cross-Sensory Divided Attention Task (DAT) in Male and Female Wistar Rats**
   Jennifer Schrader, Hannah Mathis, Haley Greene, *Saint Mary’s College*: Teresa Aubele-Futch, mentor

37. **Beyond ESA: The Advantages of Pet Ownership For All College Students**
   Emory Ramsey, *Hanover University*: Skip Dine-Young, mentor

38. **Cicadas Avoiding Predation with Tonic Immobility**
   Payton Gallowitch, *Butler University*: Hilary Madinger, mentor

39. **#InstagramMoms: The Effects of Maternal Instagram Use on Child Language Development**
   Sophie Firmani, Brooke Mangum, *Butler University*: Tonya Bergeson, mentor

40. **Analyzing the Characteristics of the E-commerce Checkout Experiences of Small Businesses Focused on Retail Sales**
   Janet Lovera, *Butler University*: Xiaowen Xu, mentor

**Session B:**

Even numbers present 10:30-11:15, Odd numbers present 11:15-noon, posters stay up the whole time.

41. **Characterization of Auditory Physiology in FXS in Critical Development Timepoints**
   Ishani Ray, *Oklahoma State University*: Elizabeth McCullagh, mentor

42. **Immersive Learning Game Studio**
   Tyler Newlin, Brooke Wright, Noah Williams, Karim Mahfouz, Robin Walma, Jeffrey Harmon, Jadi Miller, Kira Kasdorf, Max Stephens, Lyle Dotson, Rachel Berg, Victoria Granger, Pandora Roberts: *Ball State University*: Paul Gestwicki, mentor

43. **The Effects of Increasing Caffeine Content on 10% Alcohol Consumption and Preference in C57Bl/6J Mice**
   Amarpreet Kaur, *Butler University*: Jennifer Berry, mentor

44. **In Vitro Analysis of Syncytia Formation Dynamics of Mouse Hepatitis Virus (MHV)**
   Ethan White, *Butler University*: Christopher Stobart, mentor

45. **Shifted Activity of Serine Hydrolases in Mycobacterium smegmatis in the Dormant to Active Transition**
   Allie Goss, *Butler University*: Jeremy Johnson, mentor

46. **Investigation of the Intestinal Site of Action and Candidate Glycopeptide Ligand of the FSHR-1 Receptor in the Regulation of Neuromuscular Signaling in C. elegans**
   Abigail Screen, *Butler University*: Jennifer Kowalski, mentor

47. **Broadening the Substrate Specificity of Thermophilic Esterase TM0077 by Focused Structural Mutagenesis**
   Isabel Kluszynski, *Butler University*: Jeremy Johnson, mentor
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Critical Communication and Media Studies Session 2
Critical Communication and Media Studies Session 2
Poster Session A
Poster Session B
Poster Session B
Poster Session B
Psychology Session 5
Philosophy Session 1
English Session 3
Poster Session B
Biology, Session 1

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Sisson, Marney
Sloan, Grace
Smith, Aidan
Smith, Elijah
Smith, Cam
Smith, Sarah
Snider, Madelin
Snoeberger, Emma
Snook, Katherine
Spees, Alexandra
Spencer, Cassidy
Stahl, Aryn
Stamatis, Katie
Stanley, Zac
Stapleton-Deno, Zoe
Stephens, Max
Stoner, Aiden
Strepek, Zoe
Suh, Stephanie
Sullivan, Anna
Sumner, Evan

T
Tabor, Karrington
Tai, Sa’adiya
Taylor, Michael
Thomason, Lucia
Thuma, Katherine
Todor, Kaylin
Torres-Marin, Haziri
Tran, Mya
Truax, Allyson
Trueblood, Liz

V
Valadares, Vivian
Vandermeulen, Laura
Virgil, Natalie
Vivian, Lyla
Vaught, Keeley

W
Wadas, Joel...
Wallner, Jenna
Walma, Robin
Wanninger, Josh

Poster Session A
Sociology/Criminology Session 1
English Session 2
English Session 2
Psychology Session 1
Psychology Session 5
Art Session 2
Poster Session A
Poster Session A
Art/Music Session 1
Sociology/Criminology Session 1
Astrophysics/Astronomy/Computational Number Theory Session 1
History Session 2
Poster Session A
Poster Session B
Psychology Session 1
Psychology Session 2
Art Session 2
Art Session 1
Psychology Session 4

Classics Session 1
Art Session 2
Psychology Session 1
Art + Design Session 2
Poster Session B
Critical Communication and Media Studies Session 2
Poster Session B
English Session 3
Poster Session B
Psychology Session 4

Poster Session A
Sociology/Criminology Session 1
Psychology Session 2
Biography Session 1
Poster Session B

Poster Session A
Psychology Session 8
Poster Session B
Astrophysics and Astronomy Session 1
Ward, Marissa  Psychology Session 6
Washel, Kylie  Psychology Session 2
Weick, Braden  Psychology Session 3
Weil, Kat  Psychology Session 4
Weiss, William  Poster Session A
Wells, Patrick  Poster Session B
Werner, Amanda  Poster Session B
Wheeler, Danielle  Poster Session A
White, Ethan  Poster Session A
Wilhelm, Erik  Poster Session B
Williams, Noah  Poster Session B
Williams, Monica  Psychology Session 6
Wright, Brooke  Poster Session B

Z
Zara, Angie  Poster Session B
Zeri, Haley  Psychology Session 8
Zhang, Dawn  Poster Session A
Notes