

Undergraduate Research & Arts Celebration

— 2 0 2 4 —

Wednesday,

April 17th, 2024



Sponsored by The Drinko Center
for Undergraduate Research

WESTMINSTER COLLEGE

WELCOME TO URAC 2024!

Westminster College is proud to host the 2024 Undergraduate Research and Arts Celebration! There are hundreds of scholars, scientists, artists, performers, and directors that call Westminster College home and today is the day that we celebrate all of their work. This year's celebration features the work of 300+ students from almost every academic program on campus. The work represents every walk of academic life, from poems written by students in their first semester on campus, to seniors presenting the capstone work that they worked on for countless hours.

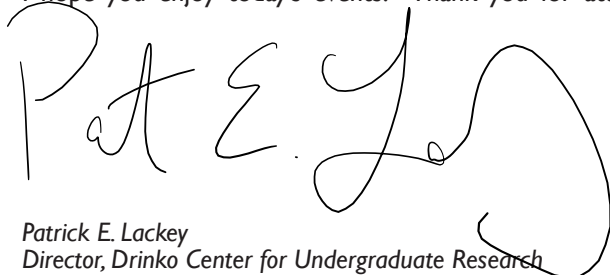
The Westminster College mission statement includes eight essential outcomes: to reason logically and evaluate critically; to communicate effectively; to think creatively and appreciate aesthetic expressions; to demonstrate intellectual curiosity; to acquire knowledge of self, society, human cultures, the natural world, and human relationships to God; to apply knowledge to contemporary issues; to demonstrate moral and ethical commitments to neighbor, society, and the natural world; and to demonstrate commitment to lifelong learning and the acquisition of skills for careers and responsible service as world citizens. The student work being presented, performed, and displayed today embodies all of these outcomes and is a testament to the value of a Westminster education.

Creating something is difficult, and today's participants will tell you that for everything you see presented, each graph, poem, film frame, and musical note, is the result of in hours of practice, countless drafts, and multiple attempts to get the experiment just right. Because of this hard work, the 2024 URAC participants are excited to share their work with you. I am proud of these students for this work, and for the courage it takes to share this work with the community.

These artists, performers, and scholars could not have carried out these projects by themselves; behind each project there are Westminster College faculty, staff, administration, and campus offices that helped the students each step of the way. Back home and in dorm rooms there are friends, siblings, and parents who supported these researchers. I want to thank everyone for providing this support and giving our students the opportunity to shine today.

Just as the work of our students is not an individual effort, URAC would not be possible without the effort of a group of people from across campus that includes student workers, Academic Administrative Assistants, and the Undergraduate Research Advisory Council, a group of dedicated faculty involved in every aspect of planning, coordinating, and staging URAC. Today's celebration would not happen without their efforts and I am deeply grateful for their help.

I hope you enjoy today's events! Thank you for attending the Undergraduate Research and Arts Celebration.



Patrick E. Lackey
Director, Drinko Center for Undergraduate Research



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URAC 2024

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EVENT SCHEDULE

9 AM-4 PM	SCRAWL 2024 RELEASE TABLE <i>Cultural Center</i>
	WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2027 <i>Quad</i>
9-9:15 AM	MARKET STREET BRASS QUINTET <i>McKelvey TUB</i>
9-10 AM	POSTER SESSION A <i>Witherspoon Rooms</i>
	FOCUS GROUP: TITAN RADIO <i>McKelvey 275</i>
9-11 AM	VIDEO SCREENINGS <i>Mueller Theater</i>
9:45-10 AM	CHAMBER SINGERS <i>McKelvey TUB</i>
10-10:45 AM	CONCURRENT RESEARCH ROUNDTABLES <i>Patterson 1st/2nd Floor</i>
	HOW TO GET STARTED IN RESEARCH <i>Berlin Lounge</i>
10-11 AM	SCRAWL RELEASE PARTY <i>Cultural Center</i>
	CONCURRENT ORAL SPEAKERS <i>Patterson 1st/2nd Floor</i>
10-11:20 AM	POSTER SESSION B <i>Witherspoon Rooms</i>
11 AM-12 PM	FOCUS GROUP: TITAN RADIO <i>McKelvey 275</i>
	BRIDGING BORDERS: JOURNEY TO PUERO RICO <i>Cultural Center</i>
	PARLIAMENTARY DEBATE <i>Berlin Lounge</i>
	ART DISPLAY <i>McKelvey 3rd Floor Atrium</i>
12-1 PM	FEATURED PODIUM PRESENTATION SPEAKERS <i>Mueller Theater and Facebook Live</i>
	ART GALLERY TALKS <i>Foster Art Gallery</i>
	EXPERIENCE ALASKA <i>Cultural Center</i>
1-1:15 PM	WICKED WINDS OF THE WEST WOODWIND QUINTET <i>McKelvey TUB</i>
1-2 PM	POSTER SESSION C <i>Witherspoon Rooms</i>
	POETRY SLAM <i>Berlin Lounge</i>
	FOCUS GROUP: TITAN RADIO <i>McKelvey 275</i>
1:15-2 PM	CONCURRENT RESEARCH ROUNDTABLES <i>Patterson 1st/2nd Floor</i>
1:30-2:50 PM	CONCURRENT ORAL SPEAKERS <i>Patterson 1st/2nd Floor</i>
1:45-2 PM	TRUMPET ENSEMBLE <i>McKelvey TUB</i>
2:10-2:55 PM	CONCURRENT RESEARCH ROUNDTABLES <i>Patterson 1st/2nd Floor</i>
2:15-2:45 PM	RHYTHMIC RENAISSANCE: PERCUSSION ENSEMBLE <i>Orr Auditorium</i>
2:30-3:30 PM	PUBLIC SPEECHES <i>Berlin Lounge</i>
3-4 PM	FEATURED PODIUM PRESENTATION SPEAKERS <i>Mueller Theater and Facebook Live</i>
	POSTER SESSION D <i>Witherspoon Rooms</i>
	FOCUS GROUP: DOCUMENTARY PREVIEW <i>McKelvey 275</i>
3:30-4 PM	READER'S THEATER: TEACHING PEACE <i>Berlin Lounge</i>

APRIL 17, 2024

URAC

1:00-2:00PM

POETRY SLAM

**Sigma Tau Delta and
SCRAWL Present the 2024
Poetry Slam at URAC!**

**Join us on April 17th at 1:00pm in
Berlin Lounge for a Friendly
Poetry Competition!**



URAC•2024 RESEARCH EXPERIENCE PANEL

HOW TO GET STARTED IN RESEARCH

BERLIN LOUNGE 10:00-11:00 AM

COME HEAR STUDENTS FROM A VARIETY OF MAJORS AND CLASS STANDING AS THEY TALK ABOUT HOW THEY GOT STARTED IN RESEARCH AND THEIR EXPERIENCES IN A VARIETY OF RESEARCH PROJECTS!

ATTENDEES WILL HAVE THE OPPORTUNITY TO ASK THE PANELISTS QUESTIONS.

FIRST-YEARS AND SOPHOMORES IN ATTENDANCE ARE ELIGIBLE FOR A DOOR PRIZE!

PANELISTS:

Sophia Galietta Senior Psychology and Art	Emma Sukal Junior Individual Interdisciplinary	Kevin Walker Sophomore Biochemistry and Molecular Biology
Emily Huff Senior Biochemistry	Alaina Kutsch Senior Neuroscience and Psychology	Harmony Wilson Junior Biology



UNDERGRADUATE RESEARCH AND ARTS CELEBRATION

CALLING ALL STUDENTS AND ATTENDEES!!

WE WANT TO HEAR FROM YOU!!



COMPLETE THE URAC EXPERIENCE SURVEY BY
MONDAY, MAY 6TH TO BE ENTERED FOR A CHANCE TO
WIN A \$25 SHEETZ GIFT CARD!

DO YOU WANT TO WIN A \$25
SHEETZ GIFT CARD?

URAC•2024

POSTER PRESENTATIONS

Witherspoon Rooms

URAC·2024 POSTER PRESENTATIONS

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
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SESSION A — 9-10 AM

A1	Not Just a Business: The Westminster Bee Company	Talia Kosonovich, Silvio Corso, Ashlee Douglass, Abigail Cannon, Kendall Joing, Dalton Koehler, Amelia Mason, Zoey Metz, Talia Morgenstern, Shea O'Donnell, Rachel Summers	Helen Boylan
A2	Multiple Sclerosis and the Immune System	Isabella Barnabei, Sarah Macmurdo	John Robertson
A3	A Lifelong Legacy	Haley Bell	David Swerdlow
A4	The Impact of Cushing Syndrome on the Immune System	Samantha Burnett	John Robertson
A5	Using siHybrids targeting the fnbA mRNA in Staphylococcus aureus to suppress biofilm formation	Mackenzie Dunn	Joshua Corrette-Bennett
A6	Nicotine's Effect On Immune System	Jordan Fore, Nicholas Pasquarello	John Robertson
A7	Exposure to parabens results in developmental abnormalities in zebrafish	Caroline Fox	Marosh Furimsky
A8	Drink like a Fish: The Impact of Ethanol on Social Anxiety in Zebrafish	Lily Fox	Deanne Buffalari
A9	The Effect of Aflatoxin B1 on Neural Development and Behavior of Zebrafish	Chloe Hankey	Marosh Furimsky
A10	Examination of SLBP Binding to Histone mRNA Degradation Intermediates	Olivia Herman	Patrick Lackey
A11	Investigation of the Autoimmune Disease Guillain-Barré Syndrome	Joseph Hill, Nydia Johnson	John Robertson
A12	The Effects of Nature Therapy on Stress and Attention Span	Hallie Hughes	Helen Boylan
A13	From Clowns to Crowds: History of the Culture Change of Competitive Eating	Anthony Kamenski	Patricia Clark



POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
A14	The Comorbidity of Caffeine and Nicotine on Memory in Sprague-Dawley rats.	Victoria Kattler	Deanne Buffalari 
A15	Invasive Species: a Dual Threat to the Environment and Economy	Camyrn Kollar, Ahreon Wharton, Tannah Hendrickson, Chloe Courinos	Keith Bittel  
A16	The Hidden Arms Race: Women in FBS Football Recruiting and Operations	Riley Lewis	Robert Badowski  
A17	The Relationship Between Anxiety/Depression and Current Nicotine Use Mediated by Emotion Dysregulation and Nicotine Withdrawal Symptoms	Brandegee Livingstone	Jessica Rhodes
A18	American Model United Nations Conference	McKenzie Means, Ashley Tarter, Caio Souza, Christina Loewe, Colin O'Malley, Conner Roberts, Dalton Hamm, Erin Callahan-Cardin, Ethan Nejad, Gabriel Diulus, Gabriela Garza, Jonathan Bates, Joshua Furman, Kelsey Humes, Kent Dunn, Lily Hefner, Marcus Tokar, Mateus Souza, Nicholas Smith, Nicolina Risavi, Portland Canovali, Peter Canovali, Ryan Crissman, Sarah Anil Cherian, Timurbek Kudratul-aeV, Victoria Valcarcel Matos, Victoria Harden, Wesley Yeager	Michael Aleprete
A19	The Mechanisms of Rheumatoid Arthritis	Nina Rascona, Jacob Steinbeck	John Robertson
A20	Radio Recombination Lines and Star Formation in the Orion Nebula	Hayley Simcic	Matteo Luisi
A21	Inhibition of Staphylococcus aureus biofilm formation using vinegar	Rachel Smith	Joshua Corrette-Bennett  
A22	Malaria: A Review of Infection and Immune System Response	Savannah Weller	John Robertson   



FIRST-YEAR PRIZE CANDIDATE



DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE



HEALTH AND WELL-BEING AWARD CANDIDATE



ENVIRONMENTAL PRIZE CANDIDATE

SESSION B — 11 AM-12 PM

B1	Not Just a Business: The Westminster Bee Company	Talia Kosonovich, Silvio Corso, Ashlee Douglass, Abigail Cannon, Kendall Joing, Dalton Koehler, Amelia Mason, Zoey Metz, Talia Morgenstern, Shea O'Donnell, Rachel Summers	Helen Boylan	
B2	Impact of Attending PMEA State Convention	Shelby Pocono, Katie Lyons, Shannon Witkouski, Alexandra Webster	Tad Greig	
B3	Immune Response to Stimulant Drugs	Jonathan Bates, Noah Gray	John Robertson	
B4	The effect of β -alanine on the rate of axolotl limb regeneration and digit formation and the expression of <i>tgf-b1</i> .	Madison Conley, Madelyn Scarmack	Joshua Corrette-Bennett	
B5	The Effects of Body Length, Mortality and Hatch Rate with Zebrafish, <i>Danio rerio</i> , that are induced with various concentrations of Ibuprofen	Dino D'Alesio	Marosh Furimsky	
B6	The East Palestine Train Derailment: The Environmental and Economic Effect of Train Derailments Nationwide	Lenina Ebert, Shelby Rambo, Madeline Thomas, Grace Schill	Keith Bittel	 
B7	Reduction of Catheter Associated Urinary Tract Infection's through Proper Documentation	Jessica Fatigati	Joni Darby	
B8	Exposure to 5 kHz and 10 kHz Ultrasound Disrupts Nuclear Transport of HeLa Cells?	Jordan Fore	Karen Resendes	  
B9	An Investigation of Celiac Disease	Caitlyn Goodrich, Victoria Peltonen	John Robertson	
B10	Introducing Visual Aides to Help Prevent Post-Op Bariatric Surgery Dehydration and ER Admissions	Melissa Graham	Joni Darby	
B11	Delivery of Mitochondria-Containing Extracellular Vesicles to the Blood-Brain Barrier for the Treatment of Ischemic Stroke	Ella Hildebrand	Deanne Buffalari	
B12	The Impact of Cellular Backpack Technology: a Treatment for Traumatic Brain Injury	Camryn Kollar	John Robertson	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
B13	The Relationship Between ADHD and Concussion Severity/ Likelihood Moderated by Sluggish Cognitive Tempo	Riley Lenard-Haley	Jessica Rhodes
B14	Examining polystyrene effects on germination and root development of <i>Hordeum vulgare</i>	Kathryn Lynn	Ann Throckmorton  
B15	Crohn's Disease: Autoimmune Inflammatory Bowel Disease	Alayna Moore	John Robertson
B16	The Economic Impact of Ecosystem Restoration	Shea O'Donnell, Elysia Morris, Nicholas Vitale, Phil Keller	Keith Bittel 
B17	Cocaine and Nicotine Exposure Effects Novelty Exploration in Male and Female Zebrafish	Nina Rascona	Deanne Buffalari
B18	Conformation Changes at the Cysteine Residues in CopY Protein using MD Simulation	Donald Shimko	Jessica Sarver
B19	Clinical Alarms in the Critical Care Unit Leading to Alarm Fatigue	Alyssa Stock	Joni Darby 
B20	Overview of Type 1 Diabetes	Danielle Teasdale	John Robertson 
B21	Pathology and physiology of pernicious anemia	Claire Tobin, Lane Voytik	John Robertson
B22	The Sleep of Reason: Exploring the Disillusionment of the American Dream in Literature and Film	Madyson Treharne	Kristianne Kalata 
B23	Poverty's Grip on Mental Health and Social Issues in Lawrence County, Pennsylvania and the Implications for Public Policy	Reaghan Wilkerson	Sherri Pataki 



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SESSION C — 1 PM-2 PM

C1	Not Just a Business: The Westminster Bee Company	Talia Kosonovich, Silvio Corso, Ashlee Douglass, Abigail Cannon, Kendall Joing, Dalton Koehler, Amelia Mason, Zoey Metz, Talia Morgenstern, Shea O'Donnell, Rachel Summers	Helen Boylan	
C2	Variation in offspring sex ratio in American kestrels (<i>Falco sparverius</i>)	Aislinn Andrews	Kerri Duerr	
C3	New Wilmington Block Party	Thomas Bablack, Natalie Franke	Robert Badowski	  
C4	DIY Raman Spectrophotometer	Zachary Burghgraef, Charles Moller, Ellian Ascencio, Lucas Whitcomb	Erin Wilson	
C5	Emotion Regulation as a Moderator in the Relationship Between Sluggish Cognitive Tempo and Nicotine Withdrawal	Mayson Everette	Jessica Rhodes	
C6	An Overview of the Disease Lupus	Caroline Fox, Madelyn Scarmack	John Roberston	
C7	New hormone found that causes morning sickness during pregnancy	Lily Fox, Emilee Larrick	John Robertson	
C8	Assessing gill pigmentation in juvenile <i>Acipenseriformes</i>	Maximillian Furimsky	John Robertson	
C9	Enhancing Workplace Productivity and Motivation: The Role of Positive Organizational Behavior, Relationships, and Healthy Lifestyles	Kendra Granchi	Loreen Huffman	
C10	Immunological dilemma: exploring Wiskott-Aldrich Syndrome's impact on immune function	Lauren Gross, Natalie Calvert	John Robertson	
C11	Role of 3'hExo in mRNA Histone Degradation	Gabriella Hunter	Patrick Lackey	
C12	An Examination of the Role of Sluggish Cognitive Tempo in the Relationship between ADHD Symptoms and Emotional Impulsivity and Attentional Control	Bailee Kasbee	Joni Darby	

POSTER NUMBER TITLE RESEARCHER(S) FACULTY SPONSOR




C13	An Examination of the Role of Sluggish Cognitive Tempo in the Relationship between ADHD Symptoms and Emotional Impulsivity and Attentional Control	Alaina Kutsch	Jessica Rhodes	
C14	Barriers to Using Westminster College's Wellness Center	Natalie Murrio	Joni Darby	
C15	Insight into the Immunological Efficacy of Stem Cell Therapy for Motor Neuron Regeneration following Spinal Cord Injury	Anita Panatch	John Robertson	
C16	Total protein compared between Vaccinium sect. Cyanococcus exposed to pesticides versus those without	Katie Lynn	Ann Throckmorton	
C17	Shortcomings of American Education for Critical Thinking	Zion Posey	Patricia Clark	
C18	Severe Combined Immunodeficiency	Mykenzie Riggle	John Robertson	
C19	The effect of siHybrids on biofilm formation in Staphylococcus aureus	Lyddia Rougeux	Joshua Corrette-Bennett	
C20	Ankylosing Spondylitis: A Disease and Treatment Review	Zoe Rowland	John Robertson	
C21	Efficacy of Alopecia Treatments	Aubrey Suttelle, Rachel Smith	John Robertson	
C22	The Orion Nebula	Justin Ranft	Mateo Luisi	
C23	Interplay Between Personality Traits, Social Desirability, and the Human Need to Belong	Jenifer Vaughan	Loreen Huffman	

SESSION D — 3-4 PM

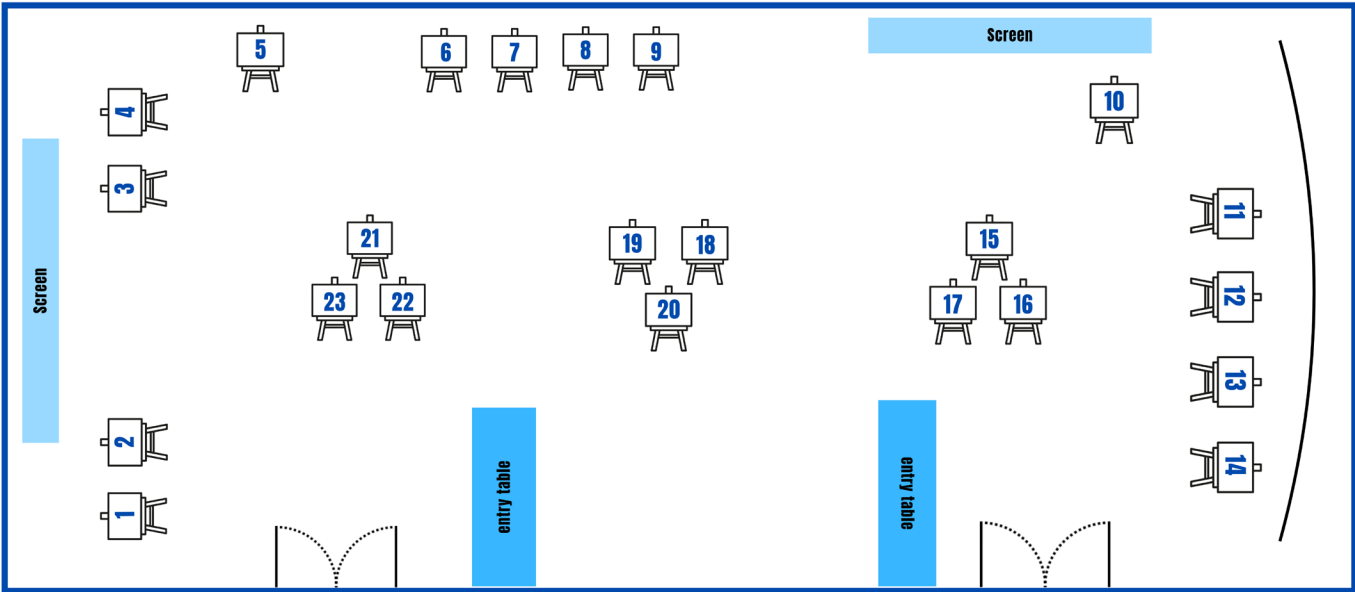
D1	Not Just a Business: The Westminster Bee Company	Talia Kosonovich, Silvio Corso, Ashlee Douglass, Abigail Cannon, Kendall Joing, Dalton Koehler, Amelia Mason, Zoey Metz, Talia Morgenstern, Shea O'Donnell, Rachel Summers	Helen Boylan	
D2	United States Black Maternal Healthcare Disparities	Alyssa Brest	Loreen Huffman	

POSTER NUMBER TITLE RESEARCHER(S) FACULTY SPONSOR

D3	Reanna Daniels	Influence of Imagery Rescripting and Body Image on Attitudes Towards Carbohydrates	Loreen Huffman	
D4	Charity and Philanthropy in the Jehovah's Witness	Victoria Harden	Michael Aleprete	
D5	The effect of bisphenol F on development and gene expression in zebrafish	Emily Huff	Patrick Lackey	
D6	Temperature Regulation, Swarm Prediction, and Honey Production at the Westminster Apiary	Avery Keenan	Patrick Krantz	
D7	Effect of Propylparaben on the Growth and Gonadal Development of Fathead Minnows (<i>Pimephales promelas</i>)	Taylor King	John Robertson	
D8	Investigating the Impact of Alcohol-Stress Interactions on Impulsivity in Rats.	Alaina Kutsch	Deanne Buffalari	
D9	Growth and total protein concentration of <i>Phaseolus vulgaris</i> are not negatively affected by perfluorooctanoic acid	Katharyn Lynn	Ann Throckmorton	
D10	Bortezomib disrupts nuclear transport by increasing nuclear import and decreasing export	Nicholas Pasquarello	Karen Resendes	
D11	An investigation of incubation behavior in American Kestrels (<i>Falco sparverius</i>)	Victoria Peltonen	Kerri Duerr	
D12	Deception Tactics: The Successful Use of Maskirovka for the Soviet Union during WWII	Vito Piloni	Patricia Clark	
D13	How Implementing a Discharge Checklist Affects Postoperative Orthopedic Patients Length of Stay	Kerstyn Pomfret	Joni Darby	
D14	Increasing Health Awareness Among Westminster Students Through the Use of Instagram and Media	Samantha Stinner	Joni Darby	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
D15	Sertraline and Caffeine interactions and their effects on anxiety levels in Zebrafish	Macy Stoddard	Deanne Buffalari
D16	The Impact of Kraft Lignin Nanoparticle Surface Coatings on Pseudomonas aeruginosa Biofilm Growth	Ian Sullivan	Erin Wilson
D17	Secondary Analysis of Interventions to Decrease Incidence of Pressure Injuries	Lauren Tanis	Joni Darby 
D18	Implications of Hypothyroidism on Reproductive Development in Xenopus laevis	Amy Tutt	John Robertson
D19	Myasthenia Gravis: Treatment	Raina Vilsack, Christian Pasquarello	John Robertson
D20	Blood Culture Contamination in the Emergency Department	Cecilia Wallace Wozniak	Joni Darby 
D21	Suppressing biofilm production in Staphylococcus aureus using siHybrids targeting the codY gene	Jocelyn Whalen	Joshua Corrette-Bennett 
D22	Does Stimulant History Affect the Anxiety-Like Response to Nicotine in Male Rats	Taylor Harman	Deanne Buffalari
D23	Data Analysis and Machine Learning on Housing Prices	Lucas Lander	Heather Muchowski

POSTER SESSION MAP



INDEX OF POSTER PRESENTERS

PRESENTER	POSTER #	PRESENTER	POSTER #	PRESENTER	POSTER #
Aislinn Andrews	C2	Sara Macmurdo	A2	Madeline Thomas	B6
Ellian Ascencio	C4	Amelia Mason	A1, B1, C1, D1	Claire Tobin	B21
Thomas Bablak	C3	McKenzie Means	A18	Madysen Treharne	B22
Isabella Barnabei	A2	Zoey Metz	A1, B1, C1, D1	Amy Tutt	D18
Jonathan Bates	B3	Model UN	A18	Jenifer Vaughan	C23
Haley Bell	A3	Charles Moller	C4	Raina Vilsack	D19
Alyssa Brest	D2	Alayna Moore	B15	Nicholas Vitale	B16
Zachary Burghraef	C4	Talia Morgenstern	A1, B1, C1, D1	Lane Voytik	B21
Samantha Burnett	A4	Elysia Morris	B16	Cecilia Wallace Wozniak	D20
Natalie Calvert	C10	Natalie Murrio	C14	Alexandra Webster	B2
Abigail Cannon	A1, B1, C1, D1	Shea O'Donnell	A1, B1, B16, C1, D1	Savannah Weller	A22
Madison Conley	B4	Anita Panatch	C15	Westmin. Bee Company	A1, B1, C1, D1
Silvio Corso	A1, B1, C1, D1	Christian Pasquarello	D19	Jocelyn Whalen	D21
Chloe Courinos	A15	Nicholas Pasquarello	A6, D10	Ahreon Wharton	A15
Dino D'Alesio	B5	Victoria Peltonen	B9, D11	Lucas Whitcomb	C4
Reanna Daniels	D3	Vito Piloni	D12	Reaghan Wilkerson	B23
Ashlee Douglass	A1, B1, C1, D1	Shelby Pocono	B2	Shannon Witkouski	B2
Mackenzie Dunn	A5	Kerstyn Pomfret	D13		
Lenina Ebert	B6	Zion Posey	C17		
Mayson Everette	C5	Shelby Rambo	B6		
Jessica Fatigati	B7	Justin Ranft	C22		
Jordan Fore	A6, B8	Nina Rascona	A19, B17		
Caroline Fox	A7, C6	Mykenzie Riggle	C18		
Lily Fox	A8, C7	Lyddia Rougeux	C19		
Natalie Franke	C3	Zoe Rowland	C20		
Maximillian Furimsky	C8	Madelyn Scarmack	B4, C6		
Caitlyn Goodrich	B9	Grace Schill	B6		
Melissa Graham	B10	Donald Shimko	B18		
Kendra Granchi	C9	Haley Simcic	A20		
Noah Gray	B3	Rachel Smith	A21, C21		
Lauren Gross	C10	Jacob Steinbeck	A19		
Chloe Hankey	A9	Samantha Stinner	D14		
Victoria Harden	D4	Alyssa Stock	B19		
Taylor Harman	D22	Macy Stoddard	D15		
Tannah Hendrickson	A15	Ian Sullivan	D16		
Olivia Herman	A10	Rachel Summers	A1, B1, C1, D1		
Ella Hildebrand	B11	Aubrey Suttelle	C21		
Joseph Hill	A11	Lauren Tanis	D17		
Emily Huff	D5	Danielle Teasdale	B20		
Hallie Hughes	A12				
Gabriella Hunter	C11				
Kendall Joing	A1, B1, C1, D1				
Anthony Kamenski	A13				
Bailey Kasbee	C12				
Victoria Kattler	A14				
Avery Keenan	D6				
Phil Keller	B16				
Taylor King	D7				
Dalton Koehler	A1, B1, C1, D1				
Camryn Kollar	A15, B12				
Talia Kosonovich	A1, B1, C1, D1				
Alaina Kutsch	C13, D8				
Lucas Lander	D23				
Emilee Larrick	C7				
Riley Lenard-Haley	B13				
Riley Lewis	A16				
Brandegge Livingstone	A17				
Kathryn Lynn	B14, C16, D9				
Katie Lyons	B2				



URAC•2024








ORAL PRESENTATIONS &
RESEARCH ROUNDTABLES

Mueller Theater and Patterson Hall

URAC•2024 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS






CONCURRENT MORNING SESSIONS — 10:00-11:20 AM

	10:00 AM	10:20 AM	10:40 AM	11:00 AM
PATTERSON 105	Debt Do Us Part: Mortgages vs. Renting Noah Sofran	Classes of graphs: $O(n,a)$ Kaylee Horn	Reduction Of PCID2 In Breast Cancer Cells Decreases Mesenchymal Markers And Upregulates Epithelial Markers Emma Rudolph	
PATTERSON 107	Directed Graph Burning Zachary LaFrankie	iNo nos maten!: A solution oriented approach to femicide in Mexico through social, legal, and feminist perspectives Hannah Piccirilli 	Beyond the Warrior Culture Memory: An Examination of the Practical Side of the Samurai of the Ashikaga Shogunate Hayne Webster  	The Liberating Effect of Education Zion Posey  
PATTERSON 110	Examining How History and the Psychology of Social Media Impact Financial Decisions Made in the Wedding & Events Industry Abigail Cannon 	Recognizing Cop-Win Graphs with Iterative Graph Coloring Lux Rezk	Canvas Creations: A Pattern-Making Paint Program Leyla Alibrahimi	The Effects of Caffeine on Emotional Memory Samantha Reed 

URAC•2024 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

CONCURRENT MORNING SESSIONS — 10:00-11:20 AM

	10:00 AM	10:20 AM	10:40 AM	11:00 AM
PATTERSON 205	<p>Exploring Total Burning in Graphs</p> <p>Dayne Fasick</p>	<p>Investigating the role of PCI domain containing 2 (PCID2) in breast cancer cell proliferation</p> <p>Jocelyn Whalen</p>	<p>Ecological Land Use of the Rainforest</p> <p>Talia Kosonovich</p> 	<p>Retrospective Analysis of Early 20th Century Immigrant Health, using Body Mass Index and Death Certificates, in Lawrence County, PA.</p> <p>Joseph Armstrong</p> 
PATTERSON 207	<p>Exploring the "Warrior Gene" in United States Murder Trials</p> <p>Lily Hefner</p> 	<p>The Green M&M: Money and Marriage</p> <p>Kent Dunn</p> 	<p>From Ramen to Résumés: The Grad School Journey</p> <p>Colin O'Malley</p> 	<p>Root Finding with Genetic Algorithms</p> <p>Asia Morgenstern</p>



ENVIRONMENTAL PRIZE CANDIDATE



FIRST-YEAR PRIZE CANDIDATE



DIVERSITY AND SOCIAL JUSTICE AWARD CANDIDATE



HEALTH AND WELL-BEING AWARD CANDIDATE








PSYCHOLOGY/NEUROSCIENCE RESEARCH AWARD CANDIDATE

URAC•2024 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

CONCURRENT AFTERNOON SESSIONS — 1:30-2:50 PM

	1:30 PM	1:50 PM	2:10 PM	2:30 PM
PATTERSON 105	<p>Modeling and Quantifying the Behavior of Bacterial Morphology with Diffusion-Limited Aggregation</p> <p>Zachary LaFrankie</p>	<p>Site-Directed Mutagenesis of Alpha-Synuclein</p> <p>Kevin Walker</p> 	<p>Roth IRA - Less Taxing and More Relaxing</p> <p>Mark Armile</p>	<p>Frankenstein: Upturning Heteronormative Binaries</p> <p>Charlie Barefield</p> 
PATTERSON 107		<p>The Religion of American Nationalism</p> <p>Victoria Harden</p> 	<p>Does Mom's Basement Beat Rent? A Post-College Decisions Presentation</p> <p>Malia Duffy</p>	<p>Changing the World, One Community at a Time</p> <p>Brittany Marburger</p>
PATTERSON 110	<p>Spilling the Tea: How Leaf Variety and Fermentation Affect Antioxidant Content</p> <p>Grace Ryser</p> 	<p>Westminster Analyst Program - Corporate Real Estate</p> <p>Kent Dunn</p> 	<p>Humane Horrors: A Dissection & Analysis of Beau Is Afraid & Portrayals of Trauma within the Horror Genre</p> <p>Annika McCabe</p>	













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URAC•2024 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

CONCURRENT AFTERNOON SESSIONS — 1:30-2:50 PM

	1:30 PM	1:50 PM	2:10 PM	2:30 PM
PATTERSON 205	<p>A Life Line: Activism in YELL and Higher Education</p> <p>Olivia Bonacci</p> 	<p>The Benefits of "UniChat"</p> <p>Patrick Ekeu</p>  	<p>Is the late positive potential (LPP) a marker of emotional memory encoding and consolidation?</p> <p>Hannah Piccirilli</p> 	<p>Examining the binding of 3'hExo to the histone mRNA</p> <p>Natalie Rose</p>
PATTERSON 207	<p>Effects of Rape Myth Acceptance, Sexual Assault Experience, and Gender on Risk Perception and Constructive Memory</p> <p>Luvada Mayle</p>  	<p>Continuous wave electron paramagnetic resonance structural analysis of alpha-synuclein in its disordered and membrane-bound forms</p> <p>Emma Parker</p>	<p>Investing in Competitive ESports Players</p> <p>Lux Rezk</p>	<p>The Effects of Lead (Pb²⁺) on the Morphology of the Skeletal System and Swim Bladder of Embryonic Zebrafish (Danio rerio)</p> <p>Jacob Steinbeck</p> 
PATTERSON 210	<p>Lights Out Variations</p> <p>Mariah Vincent</p>	<p>Behind the Wheel: Navigating the Buy or Lease Decision</p> <p>Alison Weir</p>	<p>Health Problems and Demographical Insights: An Analysis of Patient Profiles, Health Issues, and Treatments in the Dominican Republic</p> <p>Savannah Weller, Katelynn McCurdy, Abigail Guiste, Melanie Porras</p>   	

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URAC•2024 FEATURED PODIUM PRESENTATIONS

MUELLER THEATER AND FACEBOOK LIVE

MORNING SESSION — 12:00-1:00 PM

12:00-12:25 PM	<p style="text-align: center;">A GAME THEORETIC APPROACH TO RUSSIAN-UKRAINIAN RELATIONS</p> <p style="text-align: center;">Ashley Tarter</p> <p style="text-align: center;"> </p>
12:30-12:55 PM	<p style="text-align: center;">BAD GIRL: AN EXAMINATION OF DEVIANT FEMALE CHARACTERS IN CONTEMPORARY NOVELS</p> <p style="text-align: center;">Grace Phillips</p> <p style="text-align: center;"></p>

AFTERNOON SESSION — 3:00-4:00 PM



3:00-3:25 PM	<p style="text-align: center;">"AWESOME MIX, VOL. 2 CASSETTE": A STUDY ON SOUNDTRACK DISSONANCE</p> <p style="text-align: center;">Madyson Treharne</p> <p style="text-align: center;"></p>
3:30-3:55 PM	<p style="text-align: center;">THE EFFECT OF NATURE THERAPY ON MOOD AND COGNITION AMONG INDIVIDUALS REPORTING ADHD-LIKE SYMPTOMS</p> <p style="text-align: center;">Sophia Galietta</p> <p style="text-align: center;"></p>




URAC•2024 RESEARCH ROUNDTABLES

PATTERSON FIRST AND SECOND FLOORS




CONCURRENT MORNING ROUNDTABLES — 10:00-10:45 AM

PATTERSON 108	BOOSTING BRAINPOWER: THE MARVELS OF ACTIVE LEARNING IN THE PRE-K-12 CLASSROOM Moderated by School of Education Faculty KATHERINE FITZPATRICK, ANTHONY KAMENSKI, COLLEEN DREYER, ALAINA CANTAKIS
PATTERSON 208	PLATH & POETRY: THE INTERSECTION OF WOMANHOOD & MENTAL ILLNESS Faculty Moderator: Kristianna Kalata ANNIKA MCCABE, JOEHY BRINKLEY, MADY GOODRICH  
PATTERSON 210	ECHOING EXPOSURE IN ELA: CONSISTENT REPETITION OF WRITING GROWTH IN THE ELA CLASSROOM Moderated by School of Education Faculty ANTONIO ULIZZI, ALEXA RANSOM, ELIZABETH MALCZAK

CONCURRENT AFTERNOON ROUNDTABLES — 1:15-2:00 PM

PATTERSON 108	COMMUNITY INVOLVEMENT AND STUDENT LEARNING SERVICES Faculty Moderator: Jenna Copper JULIE MCKENZIE, BROOKE POWELL, ABIGAIL SLOSS
PATTERSON 208	THE ROUTE TO SELF-DISCOVERY IN THE COLOR PURPLE Faculty Moderator: Kristianne Kalata LANE VOYTIK, HALEY BELL, KAMRYN TAYLOR, HAMILTON GALBRAITH, MAKAYLA FRANCIS 

CONCURRENT AFTERNOON ROUNDTABLES — 2:10-2:55 PM

PATTERSON 108	SKILLED AND ENHANCED READING COMPREHENSION Faculty Moderator: Jenna Copper JACKSON ALEXANDER, SIERRA CEREZO, CAITLYN CONDOLEON, AND MAKENZIE CRAWFORD
PATTERSON 208	ONE FLEW OVER THE CUCKOO'S NEST: THE DOWNSIZING OF CHIEF BROMDEN'S CHARACTER DUE TO RACIAL TENSIONS Faculty Moderator: Kristianne Kalata NATHAN MAJURE, AVA KARPA, FALYN SNYDER   

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ART, MUSIC, & CREATIVE WORKS

McKelvey, Patterson, & Orr

URAC•2024 ART, MUSIC & CREATIVE WORKS

MCKELVEY, PATTERSON HALL, & THE QUAD

ART

FOSTER ART GALLERY	12:00 PM-12:30 PM	12:30 PM-1:00 PM
	GALLERY TALKS ARGININE, ALANINE, THREONINE Grace Ryser	NATURE VIA NURTURE Sophia Galietta
MCKELVEY 3rd FLOOR ATRIUM	On Display: 9:00 AM-4:00 PM Artists Present: 11:00 AM-12:00 PM	
	<p>THIS CHAIR IS NOT TRASH </p> <p>Marlowe Frelin, Macaria Benjamin, Colby Bird, Chyna Butler, Damarion Collins, Braeden D'Angelo, Nathan Demchak, Bryce Eberhart, Tyler Hager, Virginia Ives, Hayden Kenny, Katelyn Kerr, Liam Kosior, Leo Schmidt Hansen</p>	
MAIN QUAD	9:00 AM - 4:00 PM	
	WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2027	
CULTURAL CENTER	9:00 AM-4:00 PM	
	SCRAWL SPRING 2024 RELEASE TABLE	
	10:00 AM-11:00 AM	
	SCRAWL RELEASE PARTY	
BERLIN LOUNGE	1:00-2:00 PM	
	SIGMA TAU DELTA POETRY SLAM	

URAC•2024 ART, MUSIC & CREATIVE WORKS

MCKELVEY AND ORR AUDITORIUM

MUSIC

MCKELVEY TUB	9:00-9:15 AM
	<p>MARKET STREET BRASS QUINTET</p> <p>Isabella Dienes, Karissa Petruso, Jeremy Beckinger, Benjamin Burke, Timothy Mulcahy</p>
MCKELVEY TUB	9:45-10:00 AM
	<p>CHAMBER SINGERS PERFORMANCE</p> <p>Alexandra Webster, Amber Cepec, Elena Macdonald, Amelia Klinar, Liam Chute, Hunter Peterson</p>
MCKELVEY TUB	1:00-1:15 PM
	<p>WICKED WINDS OF THE WEST WOODWIND QUINTET</p> <p>Shelby Pocono, Shawn Redmond, Jeremy Beckinger, Jack Romocean, Tiffany Bratton</p>
MCKELVEY TUB	1:45-2:00 PM
	<p>TRUMPET ENSEMBLE</p> <p>Dalton Stoops, Madison Mueller-Howell, Cameron Stahl, Isabella Dienes, Hunter Hoag, Michael Everhart, Karissa Petruso</p>
ORR AUDITORIUM	2:15-2:45 PM
	<p>RHYTHMIC RENAISSANCE: THE INFLUENCE OF THE PERCUSSIVE ARTS SOCIETY'S INTERNATIONAL CONVENTION</p> <p>Shannon Witkouski, Ryan Bramson, Lauren McTiernan, Ryan Shaw, Tyler Wittmann</p>

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McKelvey

VIDEO SCREENINGS ,
FOCUS GROUPS,
& TRAVEL EXPERIENCES

URAC•2024 VIDEO SCREENINGS

MUELLER THEATER

VIDEO SCREENINGS — 9:00-11:00 AM

9:00 AM	<p>THE MAKING OF "ANOTHER WORLD" Bethany Edwards</p>
9:10 AM	<p>LOOSE GRIP Joseph Matese, Alex Marinski, Rachel Summers, Alex DiVitto, Anna McGinnis, Noah Wolford, Emma Hull, Silvio Corso, Daniel Thimons, Morgan Reidy, Bryce Carroll</p>
9:20 AM	<p>04:29.0 Benjamin Pugh, Logan Byers, Chevy Dawson, Ethan Orr, Adrienne Offutt, Grace Matson, Austin Downs, Jordan Tate, Hannah Plowman</p>
9:30 AM	<p>THE GREEN TEAM: EXPLORING WESTMINSTER'S GREEN SCENE Reid Sanderson, Avery Keenan, Hallie Hughes</p> 
9:40 AM	<p>SOMEDAY MY PRINCE WILL COME - FRANK CHURCHILL & LARRY MOREY (COVER) Jacob Weber</p> 
9:50 AM	<p>ARE THE AMISH FUNNY? Max Smith</p> 
10:30 AM	<p>WINGING IT WITH THE BIRDTOK CLUSTER: SHOWCASING MEMES CREATED BY BIRDERS USING TIKTOK Sarah Marinkovich, Gavin Batdorff, Kolton Banfi, Angelena Ukeagu, Iresha Norris, Madillynn Kerr, Cody Vetter, Dwight Parker, Walter Phillips, Derek Beach, Luke Lander, Lucas Whitcomb, Connor Schmidt, Ethan Burford, Kevin Ivany, Chase Thomas</p> 

URAC•2024 FOCUS GROUPS & GLOBAL EXPERIENCES

MCKELVEY

TITAN RADIO FOCUS GROUPS — 9:00 AM, 11:00 AM, & 3:00 PM

	9:00-10:00 AM	11:00 AM-12:00 PM	3:00-4:00 PM
MCC 275	Mason Peck, Jack Mickle, Cody Vetter	Joseph Matese, Geoffrey Worsey, Reid Sanderson	Hannah Plowman, Brittany Marburger, Emily Reed

GLOBAL EXPERIENCES — 11:00 AM-1:00 PM

CULTURAL CENTER	11:00 AM-12:00 PM
	<p>BRIDGING BORDERS, RESTORING ROOTS: A JOURNEY TO PUERTO RICO Brittany Marburger, Ashlee Douglass, Koi Tavares, Talia Kosonovich, Glenn Morrison, Haley Bell, Chloe Smith, Christina Loewe, Madison Mamula</p>
	12:00 PM-1:00 PM
	<p>EXPERIENCE ALASKA: TRANSFORMATIVE TRAVEL EXPLORES SUSTAINABILITY, URBAN AND RURAL LIFE, FOOD SECURITY, HEALTHCARE, HOUSING NEEDS, AND ENVIRONMENTAL CONSERVATION.</p> <p>Jonas Clark, Aubrey Suttelle, Owen Martin, Rachel Brady</p>  



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PUBLIC SPEECH & DEBATE

Berlin Lounge

URAC•2024 PUBLIC SPEECH & DEBATE

BERLIN LOUNGE

PUBLIC SPEECHES — 2:30 - 3:30 PM

2:30 PM	2:40 PM	2:50 PM
<p>**Trans-plaining</p> <p>Tyler Hunter</p> 	<p>Three Classrooms</p> <p>Alyjah McHugh</p> 	<p>COVID Conversations</p> <p>Victoria Valcarcel Matos and Wesley Yeager</p> 
3:00 PM	3:10 PM	3:20 PM
<p>Switching Priorities: A Look into the Rising Threat of the Glock Switch</p> <p>Makyla Wheeler</p> 	<p>Our Public Opinion Polling Panacea</p> <p>Jaden Sowers</p>	<p>Extemporaneous Speaking</p> <p>Ellis Moore</p>

**This speech includes depictions of personal traumas that may be difficult for some audiences.



URAC•2024 PUBLIC SPEECH & DEBATE

BERLIN LOUNGE

GROUP EVENTS

11:00 AM - 12:00 PM

PARLIAMENTARY DEBATE

Kent Dunn, Krysta Germanoski, Alyjah McHugh, Ellis Moore



3:30 - 4:00 PM

READER'S THEATER: TEACHING PEACE

Kent Dunn, Krysta Germanoski, Tyler Hunter, Alyjah McHugh, Ellis Moore, Jaden Sowers, Victoria Valcarcel Matos, Makyla Wheeler and Wesley Yeager



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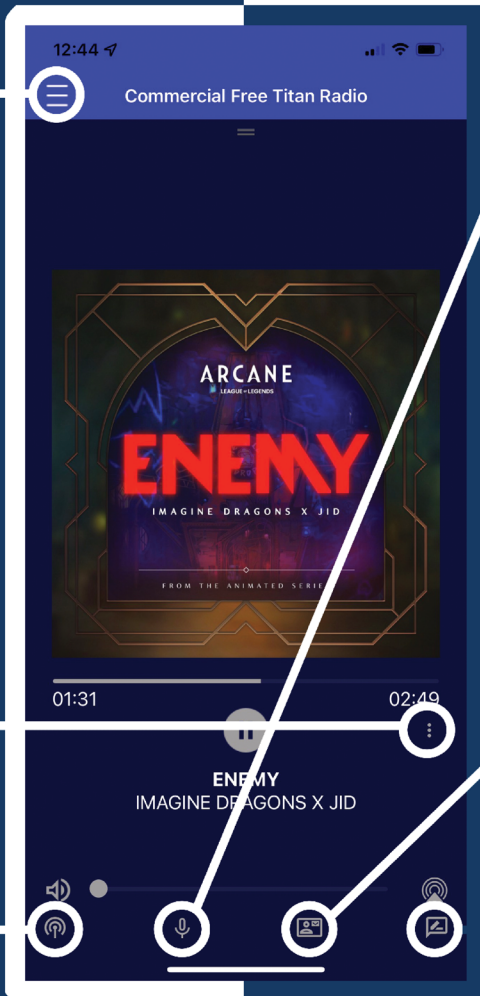
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