

10TH

ANNIV

ERSARY

CELEBRATING
RESEARCH
INNOVATION
SCHOLARSHIP
EXPLORATION

APRIL 2, 2025

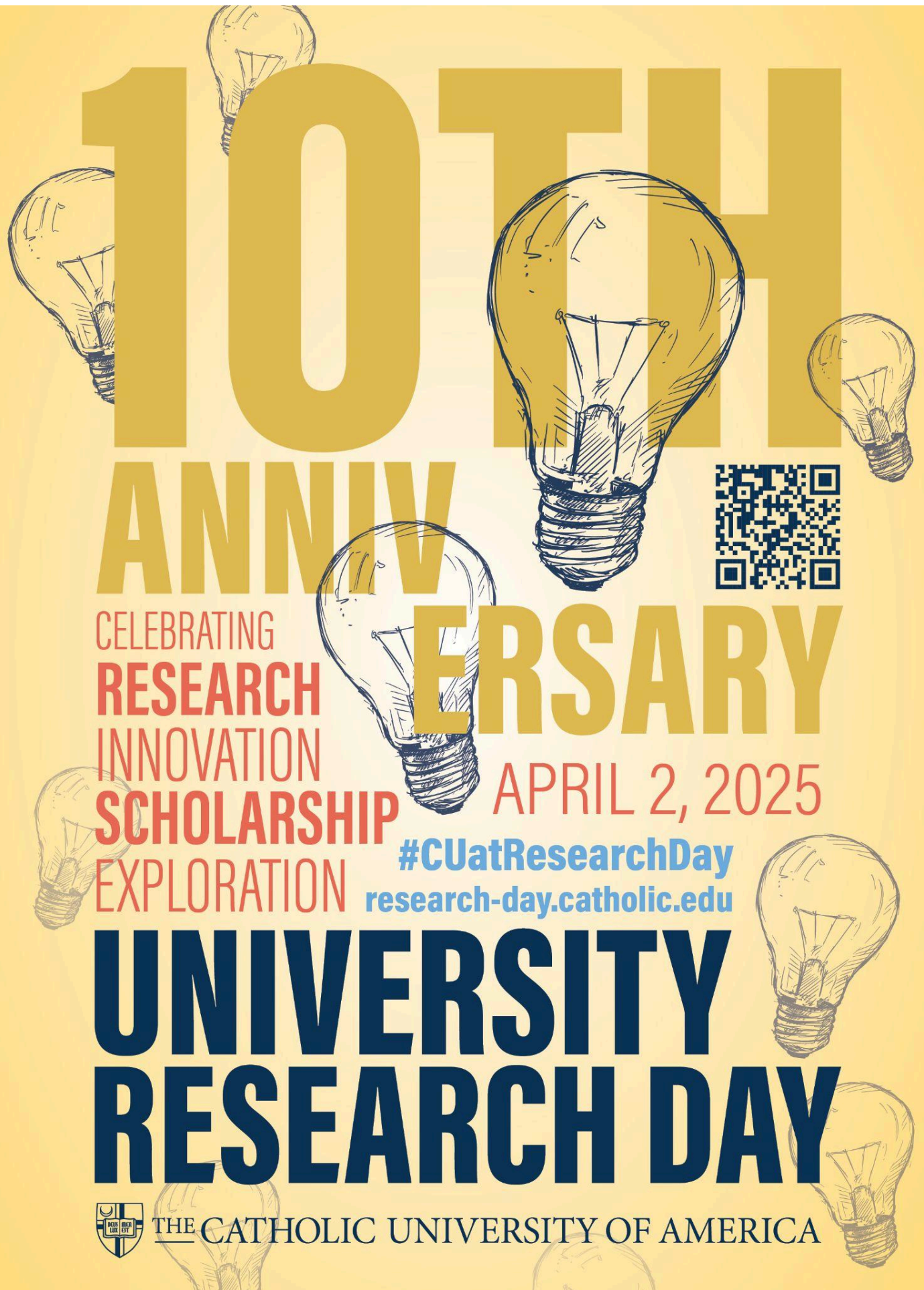
[#CUatResearchDay](#)

research-day.catholic.edu

UNIVERSITY RESEARCH DAY



THE CATHOLIC UNIVERSITY OF AMERICA



CATHOLIC UNIVERSITY RESEARCH DAY 2025 PROGRAM

Instructions for the in-person and online presentations:

1. Using the Table of Contents, you can navigate to the section of your choice.
2. To attend presentations in-person, refer to the room assignment in the program.
3. To view presentations online, click on the title of the presentation you would like to view. This will open a folder with one or more files. Click on the poster or presentation file to open and view it.
4. If you have a question for the presenter, online comments are accepted from everyone. Those who are not signed in with an @cua.edu account may be moderated.

Table of Contents

Welcome to University Research Day 2025	4
University Research Day 2025 Planning Committee	5
University Research Day 2025 Schedule	6
Keynote Lecture by Drs. Anderson, Jobes, and Mcdonogh	7
Participating Campus Research Organizations	9
Oral Presentation Schedule	10
Poster Presentations	17
Musical Performances by Students and Faculty	28
FilmFest by Students	29
Feedback to University Research Day 2025	30

Welcome to University Research Day 2025

Welcome to University Research Day 2025!

Welcome to Catholic University's 10th annual Research Day! This year, we invite you to discover the incredible research being conducted by students, faculty, and staff at The Catholic University of America. This event highlights innovation, diversity, and global engagement in research. Under the leadership of Provost Dominguez, the University has achieved R1 status, further solidifying its commitment to advance science and research.

University Research Day, now a valued tradition at Catholic University, was first established in 2016 through the vision and dedication of NCSSS Professor Melissa Grady, with the support of former Provost Andrew Abela. Since its inception, the event has grown each year, introducing new elements such as performances, interactive demonstrations, and virtual presentations.

The event will begin with opening remarks by Provost Dominguez, followed by an address from Senior Vice Provost Yost and then President Kilpatrick, and a keynote lecture by Professors Anderson, Jobes, and McDonogh. To celebrate the milestone of the 10 year anniversary, Professor Grady will give a special talk about the history and evolution of University Research Day. Attendees will have the opportunity to explore almost 50 oral presentations, more than 100 poster presentations, live musical performances, film festivals, and research organization showcases. The day will conclude with a live awards ceremony, where the Provost will recognize and speak with the winners.

This event would not be possible without the dedication of many individuals. We extend our sincere gratitude to Provost Dominguez for his unwavering support of research, the University Research Day 2025 Planning Committee, and the University's Web Services team for their efforts in organizing an inspiring day of discovery.

Most importantly, we thank you—the presenters, the Catholic University community, and our family and friends—for your enthusiasm and participation. Enjoy the day!

Gregory Miller & Reiko Asano

URD 2025 Co-Chairs

University Research Day 2024 Planning Committee

Gregory Miller, Co-Chair – School of Arts & Sciences (Chemistry)

Reiko Asano, Co-Chair – Conway School of Nursing

Ralph Albano – Office of the Provost

Glenn Østen Anderson – School of Arts & Sciences (Media Studies)

Patricia J Andrasik – School of Architecture and Planning

Rev. John P. Beal – School of Canon Law

Elise Cardinale – School of Arts & Sciences (Psychology)

Charles Gallagher – Mullen Library

Dave Hazen – Service Executive Director of Content and Writing

Peter Kadeli – Rome School of Music, Art, and Drama

Chuan-Fu Lin – School of Engineering (Mechanical Engineering)

Mayrose McInerney – School of Arts & Sciences (Education) Montclair State University, Board of Visitors (Alumna)

Duilia de Mello – Vice Provost for Global Strategies

Kristin L. Reavey – Art Director, University Publications

Emily Sobieski – Director for University Events

Joanne Welsh – Senior Copywriter and Editor

Jack Yoest – Busch School of Business

University Research Day 2025 Schedule

April 2, 2025

- 9:00-9:10 am Welcome and State of Research, Provost Aaron Dominguez
Della Ratta Auditorium, Maloney Hall
- 9:10-9:25 am Catholic University Research Vision, Sr. Vice Provost for Research Joe Yost
Della Ratta Auditorium, Maloney Hall
- 9:25-9:30 am President's Statements, President Kilpatrick
Della Ratta Auditorium, Maloney Hall
- 9:30-10:10 am Keynote Presentation
Beyond the Game: Our Team Approach to Supporting and Studying Athlete
Mental Health and Suicide Prevention
Glenn Østen Anderson, MSt, MFA, David A. Jobes, Ph.D., ABPP, and
Meghan McDonogh, Ph.D.
Della Ratta Auditorium, Maloney Hall
- 10:10-10:25 am University Research Day Retrospective, Melissa Grady
Della Ratta Auditorium, Maloney Hall
- 10:25-10:35 am Break
- 10:35-11:35 am Oral Presentations, All Sessions, Presentations 1-5
Assigned Rooms
- 11:35-11:45 am Break
- 11:45-12:45 pm Oral Presentations, All Sessions, Presentations 6-10
- 12:45 pm Lunch Break
Food Trucks at the Conway Fountain
[Capital Chicken & Waffles](#)
[Two Smooth Dudes](#)
- 12:45-2:00 pm Exhibitions:
Live Music/Drama Performances, Pryzbyla Center, 3rd floor
Film Festival, Conway Large Auditorium (Room 110)
- 2:00-3:45 pm Poster Presentation Session, Pryzbyla Center, Great Rooms
Institutes and Clubs, Pryzbyla Center 1st floor
- 4:00-4:30 pm Research Day Awards Ceremony
Heritage Hall, Father O'Connell Hall

Keynote Lecture:

**Beyond the Game: Our Team Approach to Supporting
and Studying Athlete Mental Health and Suicide
Prevention**

Glenn Østen Anderson, MSt, MFA, David A. Jobes, Ph.D., ABPP, and Meghan McDonogh, Ph.D.

Glenn Østen Anderson MSt, MFA is an Associate Professor of Media and Communication Studies specializing in documentary film, writing for the screen and multimedia production.

Before starting his academic career, Glenn served as Senior Producer for Social News and Streaming Video at BBC News and was one of the founding editors and programmers behind the launch of BBC News on YouTube. Glenn also wrote, directed and produced the award-winning BBC World News documentary film, *To Remember*.

Over his twenty plus year career in media production, his work has been featured by broadcasters, publications and organizations including Military.com, CBS College Sports (CSTV), The Guardian (UK), Runner's World (Rodale Press), HBO Real Sports, Fox Sports Net, YES Network, WNET (PBS), WLIW (PBS), US Department of Energy, US Department of State and in branded content projects for Strategic Education, Motown-Universal, Nike and New Balance.

Glenn's 2021 Emmy-nominated documentary film, *Coogan's Way*, had a red carpet premiere at The Harlem International Film Festival and was later featured in more than a dozen national and international film festivals. Glenn is an Emmy-voting member of the National Academy of Television Arts and Science - National Capital Chesapeake Chapter.

Glenn is currently developing a new documentary short film about college athlete mental health and writing a feature film script about the UrbEx (urban exploration) community.

David A. Jobes, Ph.D., ABPP, is a Professor of Psychology, Director of the Suicide Prevention Laboratory, and Associate Director of Clinical Training at The Catholic University of America. Dr. Jobes is also an Adjunct Professor of Psychiatry, School of Medicine, at Uniformed Services University. He is the author of seven books and hundreds of articles and book chapters. Dr. Jobes is a past President of the American Association of Suicidology (AAS) and the recipient of various awards for his scientific work including the 1995 AAS "Shneidman Award" (early career contribution to suicidology), the 2012 AAS "Dublin Award" (for career contributions in suicidology), and the 2016 AAS "Linehan Award" (for suicide treatment research). He is the recipient of the 2022 Alfred M. Wellner Award for Lifetime Achievement (for research excellence) from the National Register of Health Service Psychologists. He has been a consultant to the Centers for Disease Control and Prevention, the National Academy of Medicine, the National Institute of Mental Health, the Federal Bureau of Investigation, the Department of Defense, Veterans Affairs, and served as a "Highly Qualified Expert" to the U.S. Army's Intelligence and Security Command. Dr. Jobes is a Board Member of the American Foundation for Suicide Prevention

and he is a Fellow of the American Psychological Association and is board certified in clinical psychology (American Board of Professional Psychology). Dr. Jobes maintains a private clinical and consulting practice in Washington DC and in Maryland.

Dr. Meghan McDonogh brings academic credentials and practical experience to the Catholic U athletic field, having earned an M.Ed in Sport Management from The University of Georgia and a Ph.D in Sport Administration from the University of Louisville. Currently, in her 19th season of coaching women's lacrosse at Catholic U., she also serves as the Senior Woman Administrator and Associate Athletic Director while completing a MSW degree. As a certified Mental Health First Aid Trainer, she has trained over 45 Catholic athletics staff and coaches. Her dedication extends to working with various student-athlete groups, including SAAC, One Love, Morgan's Message, and CardsCare, to support healthy relationships and increase dialogue around mental health. Dr. McDonogh has authored book chapters on women in professional sports and leadership, including "Women as Leaders in Professional Sport," and "Billie Jean King" in *Gender and Leadership*, and "Women in Professional Sport," in *Women as Leaders in Sport: Impact and Influence*. Dr. McDonogh shares her expertise at professional conferences, presenting on topics such as women in soccer, coaching career paths, equal pay, Title IX, and the integration of social work into Division III athletics.

Campus Research Organizations

Catholic University's commitment to research is demonstrated in a variety of ways - engaging undergraduate and graduate students in research projects, faculty and student research presentations at national and international academic events, numerous published articles and books by our faculty, and through the work of the thirty-five research facilities on campus.

The following campus research organizations have contributed special presentations for Research Day 2025. Please visit them at the tables in the ground (second) floor of the Pryzbyla Center.

AIAS (American Institute of Architecture Students)

CUA eSports

CUA Press

French Club

Institute of Christian Oriental Research

Institute for Human Ecology

Institute for Latin American and Iberian Studies (ILAIS)

Inventio

MSNetZ Master of Science in Net Zero Design Program

Mullen Library, University Libraries

NOMAS (National Organization of Minority Architecture Students)

Society of Catholic Scientists

Special Collections, University Libraries

Themed Entertainment Association @ CUA

The Tower

Vermilion

Oral Presentations

Presentations 1-5: 10:35 am – 11:35 am

Presentations 6-10: 11:45 am – 12:45 am

Session 1 - Hannan Hall 108

Chairperson: Elise Cardinale

1	<p>Do Roll Call Votes Still Influence Congressional Elections?</p> <ul style="list-style-type: none">Matthew Green, School of Arts and Sciences (Politics), Faculty <p>Collaborator: Stephanie Menendez</p>
2	<p>Electrofabricated Chitosan Membranes on Filter Paper for Household Water Purification in Disaster Relief</p> <ul style="list-style-type: none">Phuc Long Duong, School of Engineering (Department of Mechanical Engineering), PhD Student <p>Advisor: Dr. Xiaolong Luo</p>
3	<p>Doctoring the Books: How Can you Tell if its (Non) Fiction?</p> <ul style="list-style-type: none">Mary Margaret Brennan, School of Arts and Sciences (English Department), Undergraduate StudentAdvisor: Dr. Trevor Lipscombe
4	<p>Is Jesus Christ's Cross Only a Repayment of Debt?</p> <ul style="list-style-type: none">John M.H. Quinn, School of Theology and Religious Studies (Historical and Systematic Theology), Master's Student <p>Advisor: Rev. Dr. Vincent L. Strand, SJ</p>
5	<p>Saved by the Spray: How Naloxone Reverses Opioid Overdoses</p> <ul style="list-style-type: none">Maura Hroncich, Conway School of Nursing, Undergraduate Student <p>Advisor: Dr. Gregory Miller</p>

6	<p>DECIPHERING THE FUNCTIONS OF UNCHARACTERIZED GENES FOUND IN THE HUMAN GENOME</p> <ul style="list-style-type: none"> • Dr. Frank Portugal, School of Arts and Sciences (Biology/Biotechnology), Faculty • Collaborators: Brian Herbert, Blake Bostelman, Clark Hager
7	<p>Eta Carinae binary system as a case study for advanced X-Ray telescopes in space</p> <ul style="list-style-type: none"> • FRANCISCO JUNQUEIRA, School of Arts and Sciences (PHYSICS), PhD Student • Collaborator: KENJI HAMAGUCHI • Advisor: MICHAEL CORCORAN
8	<p>Photographing the Past: Building Digital Collections in the Semitics/ICOR Library</p> <ul style="list-style-type: none"> • Maia Teastone Lev, School of Arts and Sciences (Department of Information Sciences), Master's Student • Collaborator: Hannah Welz <p>Advisor: Monica Blanchard</p>
9	<p>SOCCER OR POLITICAL PROPAGANDA? HOW DID FASCIST ITALY WIN THE 1934 WORLD CUP</p> <ul style="list-style-type: none"> • Tommaso Vato, School of Arts and Sciences (History), Undergraduate Student <p>Advisor: Árpád von Klimó</p>
10	<p>Social Media or Friendship: It's One or the Other</p> <ul style="list-style-type: none"> • Adam Cady, School of Philosophy (Philosophy), Undergraduate Student <p>Advisor: Dr. Marshall Bierson</p>

Session 2 - Della Ratta Auditorium

Chairperson: Charles Gallagher

1	<p>Creative Reflections: Helping Students Find Meaning in Difficult Clinical Experiences Kristina Leyden, Conway School of Nursing (School of Nursing), Faculty</p>
2	<p>Does Exposure to the Global North have Psychological Externalities? Evidence from Ghana</p> <ul style="list-style-type: none"> • Kady Sanogo, School of Arts and Sciences, Master's Student • Collaborators: Matthew Johnson, Chanel Cole • Advisor: Dr. Richard Gallenstein

3	<p>Lateral Piezoresistive Response of Carbon Nanotube Yarns(CNTYs) Under Compression</p> <ul style="list-style-type: none"> • Herman Sandhu, School of Engineering (Mechanical), Undergraduate Student • Collaborator: Mathew Joseph(Electrical Engineering and Computer Science) • Advisor: Dr. Jandro Abot, and PhD candidate Iriana Garcia
4	<p>The Nevada Case Study: How Legalizing Prostitution Affects Trafficking and Exploitation Rates</p> <ul style="list-style-type: none"> • Katiah Scott, Columbus School of Law, Law Student <p>Advisor: Mary Graw Leary</p>
5	<p>A Computational Chemistry Approach to Investigating the Impact of Thyroid Cancer on Proteins</p> <ul style="list-style-type: none"> • Gabriella Lazarte, School of Arts and Sciences (Biochemistry), Undergraduate Student • Collaborator: Tommaso Marena • Advisor: Gregory Miller
6	<p>Optimal Gluing Weights for Silicon Modules in the CMS Phase II Inner Tracker Assembly</p> <ul style="list-style-type: none"> • Rhea Khatri, School of Arts and Sciences (Physics), Staff • Collaborators: Tavian Jones, Yale University; Brendan Hille and Avril Hsu, Eleanor Roosevelt High School • Advisor: Dr. Rachel Bartek, Dr. Aaron Dominguez
7	<p>Stephen Hero? A Characterization of Stephen Dedalus in A Portrait of the Artist as a Young Man and Ulysses</p> <ul style="list-style-type: none"> • David Moretti, School of Arts and Sciences (English), Undergraduate Student <p>Advisor: Dr. Gregory Baker</p>
8	<p>Fraud Detection in Online Transactions</p> <ul style="list-style-type: none"> • Sairam Korimilla, School of Engineering (Data Analytics), Master's Student • Advisor: Dr. Matthew Jacobs
9	<p>Forging Futures: a transition into a new resilient chapter</p> <ul style="list-style-type: none"> • Lauren Thompson, School of Architecture and Planning, Master's Student • Advisor: Patricia Andrasik

Session 3 - Gowan Hall 126

Chairperson: Patricia Andrasik

1	<p>Enhancing Students, Help-seeking Behaviors and Problem- Solving Skills: Quantitative and Qualitative Findings from a Three- Year Study Funded by the National Science Foundation</p> <ul style="list-style-type: none"> • Guoyang Liu
2	<p>Emotional Acceptance as a Protective Factor Among Risky Families</p> <ul style="list-style-type: none"> • Natalie Volpicelli, School of Arts and Sciences (Psychology), PhD Student • Collaborator: Dr. Marcie Goeke-Morey <p>Advisor: Dr. Marcie Goeke-Morey</p>
3	<p>Catholic University Through the Years (1861-2024)</p> <ul style="list-style-type: none"> • Nicole Finnigan, School of Arts and Sciences (Anthropology), Undergraduate Student • Advisor: Joshua Samuels
4	<p>Noninvasive EMG-based Armband to Control Wheelchair Movement</p> <ul style="list-style-type: none"> • Meghan Murray, School of Engineering (Biomedical Engineering), Undergraduate Student • Collaborators: Sean Farrelly, Nathan Ford, Meghan Murray, Anastasia Rao, Brian Sayah • Advisor: Dr. Alessandro Vato
5	<p>Prenatal Tax Credits and Child Support for the Unborn: A Literature Review</p> <ul style="list-style-type: none"> • Christopher Hull, School of Arts and Sciences (Masters in Public Policy Program), Faculty <p>Advisor: Prof. Richard Gallenstein</p>
6	<p>Los Angeles Crime Landscape: Predictive Analytics and Trend Exploration from 2010 to Present</p> <ul style="list-style-type: none"> • Odinaka-Olisa Okonkwo, School of Engineering (Data Analytics), Master's Student • Collaborator: Ashhadulla Shaik (ashhadulla@cua.edu) <p>Advisor: Prof. Matthew Jacobs</p>
7	<p>Labor Trafficking in the Beauty Industry</p> <ul style="list-style-type: none"> • Michelle Vo, Columbus School of Law, Law Student <p>Advisor: Mary Graw Leary</p>

8	<p>Medical Treatment Preferences among Emerging Adults with and without Chronic Medical Conditions</p> <ul style="list-style-type: none"> • Frances Cooke, School of Arts and Sciences (Department of Psychology), PhD Student • Collaborators: Mary Rose Yockel, Jackson Gasperecz, Leah Gadi, Alexandra DeLone, Larry Mullins <p>Advisor: Dr. Christina Sharkey</p>
---	--

Session 4 - Conway Room 110

Chairperson: John Beal

1	<p>Transforming the City: Inquires on Well-Being in Urban Habitats</p> <ul style="list-style-type: none"> • Jason Montgomery, School of Architecture and Planning (n/a), Faculty • Collaborators: Juliet Carpenter, David Howard University of Oxford, UK ; Nimish Bilorla, University of Technology Sydney, Australia, Hamish Robertson. Queensland University of Technology, Australia ; Lene Wiell Nordberg, Marie Stender, Aalborg University, BUILD, DK ; Lijun Chen, Noor Marji, Gülbahar Emir Işık, Akshatha Ravi Kumar, Czech Technical University in Prague ; Jayoon Lee, Hyunwoo Lee, Sohyun Park, Seoul National University ; Elena Parnisari, Teresa Calix, Faculty of Architecture of the University of Porto ; Amanda Gibberd, Department of Transport, South Africa, University College London, UK, Ruth Mutasa, City of Tshwane, South Africa, University Of Cape Town, Keresha Naidoo, City of Cape Town, South Africa ; Humna Syed, Ambereen Zahid Khan, Beaconhouse National University, PK ; Julika von Stackelberg, Prescott College, AZ ; Joanna Badach, Gdańsk University of Technology, Faculty of Architecture, Poland ; Hanin Othman, Rahman Azari, Penn State University ; Claire Pelgrims Gustave Eiffel University & Université libre de Bruxelles ; C.J. Howard, Catholic University of America
2	<p>Short-term Changes in the Suicide Status Form: Examining Daily Variability & Predictability of the Core Assessment Constructs</p> <ul style="list-style-type: none"> • Jessica Gerner, School of Arts and Sciences (Psychology), PhD Student • Collaborators: David A. Jobes, Abby Adler Mandel, Raymond Tucker • Advisor: David Jobes
3	<p>Brain Race: Educational Outreach Through Brain Computer Interface Gaming</p> <ul style="list-style-type: none"> • Abigail Post, School of Engineering (Biomedical Engineering), Undergraduate Student • Advisor: Dr. Alessandro Vato
4	<p>The Great Māhele: How the 1848 Privatization of Land Ownership led to the Hawaiian Annexation</p> <ul style="list-style-type: none"> • Chloe Masaitis, School of Arts and Sciences (History), Undergraduate Student • Advisor: Dr. Stephen West
5	<p>The Status of Incardination of a Cleric Dismissed from His Religious Institute</p> <ul style="list-style-type: none"> • Nicholas Blackwell, School of Canon Law, PhD Student

	Advisor: Rev. Ronny Jenkins
6	<p>Structure and Electrochemical performance of 60Li2S-32SiS2-P2S5 Glass Electrolyte for Solid-state Lithium Batteries</p> <ul style="list-style-type: none"> • Amrit Kafle, School of Engineering (Mechanical Engineering), Staff • Collaborators: Sneha Perikkathra, Binh Hoang, Roya Damircheli, Sukanya Goswami, David McKeown, Chaun-Fu Lin • Advisor: Dr. Chuan-Fu Lin
7	<p>Better Informed School Nurses, Healthier Students: Analyzing the School Nurse's Role on the Student Assistance Team (SAT) for School-Aged Children and Youth</p> <ul style="list-style-type: none"> • Susan Macyko, Conway School of Nursing (Doctor of Nursing Practice (DNP) Candidate), PhD Student • Collaborators: Dr. Mary Flynn, DNP (CUA Faculty Mentor); Ms. Margaret Kenney (ADW Special Educator) • Advisor: Dr. Janice Agazio
8	<p>Sign of the Times: Community Engagment and the Michigan Historical Marker Program</p> <ul style="list-style-type: none"> • Sarah Friedmann, School of Arts and Sciences (Department of Anthropology), Undergraduate Student <p>Advisor: Dr. Joshua Samuels</p>
9	<p>Repetition and Obliteration: An Art Historical Analysis of Social Commentary in the Beijing East Village Katherine Plunkett, Benjamin T. Rome School of Music, Drama, and Art (Anthropology, Art & Design), Undergraduate Student</p>
10	<p>Victims or Volunteers? Examining whether child gang members should be protected under American Human Trafficking Statutes</p> <ul style="list-style-type: none"> • Natashya Hawley, Columbus School of Law (Legal), Master's Student • Advisor: Dean Mary Graw

Session 5 - Conway Room 111

Chairperson: Chuan-Fu Lin

1	<p>Roof Gardens: The Architecture of a Dream</p> <ul style="list-style-type: none"> • Nathaniel Robert Walker, School of Architecture and Planning, Faculty
2	<p>The Politics of Perception: Judgements of Culpability Across Ideologies</p> <ul style="list-style-type: none"> • Julia Kennedy Tysyn Minnis, & David Arroyo, School of Arts and Sciences (Psychology), Master's Student • Collaborators: Madison Schultz, Chase Kovalcheck, Hannah Chesterton, Elise Cardinale • Advisor: Elise Cardinale

3	<p>AI-Driven Optimization and Security for High-Performance Computing and Cloud-Native Systems</p> <ul style="list-style-type: none"> • Sandeep Shiraskar, School of Engineering (The Department of Electrical Engineering and Computer Science), Master's Student • Collaborator: Dr. Dominick Rizk <p>Advisor: Dr. Dominick Rizk</p>
4	<p>NATO and Russian Aggression in the Arctic</p> <ul style="list-style-type: none"> • Caitlin Brawley, School of Arts and Sciences (Politics), Undergraduate Student • Advisor: Dr John Fox
5	<p>The Use of EEG Signals to Control a Prosthetic Hand</p> <ul style="list-style-type: none"> • Emma Wallace, School of Engineering (Biomedical Engineering), Undergraduate Student • Collaborators: Maysoon Obeid, Laney Schulz, Brienna Spano, Reham Alshahrani • Advisor: Dr. Alessandro Vato
6	<p>Exploitation of Women within the Commercial Gestational Surrogacy Industry</p> <ul style="list-style-type: none"> • Kaylie McGraw, Columbus School of Law, Law Student
7	<p>Social Media Entertainment Analysis</p> <ul style="list-style-type: none"> • Rohit Sai Kollipara, School of Engineering (Data Analytics), Master's Student • Advisor: Matthew Jacobs
8	<p>Artificial Solid Electrolyte Interfaces: Nitride Applications in Lithium Metal Batteries for Undergraduate Chemistry Students</p> <ul style="list-style-type: none"> • Odalys Campos, School of Arts and Sciences (Chemistry), Undergraduate Student • Collaborator: Roya Damircheli <p>Advisor: Dr. David Ramirez and Dr. Chuan-Fu Lin</p>
9	<p>Research Proposal for a Doctoral Degree in Orchestral Conducting</p> <ul style="list-style-type: none"> • Simeon Morrow, Benjamin T. Rome School of Music, Drama, and Art (Music Department), Master's Student

Poster Presentations

ALL SESSIONS: Pryzbyla Great Room 2:00 pm

1	<p>Monitoring the Reasoning Processes on a Mobile Ground Robot</p> <ul style="list-style-type: none"> • Jeffrey HERRMANN, School of Engineering (Mechanical Engineering), Faculty
2	<p>The Evaluation of an Education Campaign for Recognition and Management of Pediatric Patient Deterioration in the Inpatient Acute Care Setting</p> <ul style="list-style-type: none"> • Nicholas Comeau, Conway School of Nursing, PhD Student • Advisor: Rebecca Robert
3	<p>Tuning of fluid flow characteristics using solid interfaces of variable charge and nanoscale geometry</p> <ul style="list-style-type: none"> • Karent Jerez Rojas, School of Engineering (Mechanical Engineering), PhD Student • Advisor: Santiago Solares
4	<p>Defining Children with Medical Complexity and Their Family Caregivers' Mental Health: A Secondary Data Analysis of the National Survey of Children's Health (NSCH)</p> <ul style="list-style-type: none"> • Lai Wong, Conway School of Nursing, PhD Student • Advisor: Rebecca Robert
5	<p>The Effects of Positive Priming on Emerging Adults' Body Image</p> <ul style="list-style-type: none"> • Emma Heffron, School of Arts and Sciences (Psychology), PhD Student • Collaborator: Daniel Saba and Kim Oacan • Advisor: Kathryn Degnan
6	<p>Forced Labor Global Prosecutions: Solutions for Low Prosecution Rates of Labor Traffickers</p> <ul style="list-style-type: none"> • Lawrence Shammass, Columbus School of Law, Law Student • Advisor: Professor Mary Graw
7	<p>The Role of Mefenamic Acid in the Management of Endometriosis-Related Pain</p> <ul style="list-style-type: none"> • Sophie Allen, Conway School of Nursing, Undergraduate Student • Advisor: Dr. Miller
8	<p>Concentration of plastic sulfur allotrope dictates concrete strength</p> <ul style="list-style-type: none"> • Hannah Greenberg, School of Arts and Sciences (Chemistry), Undergraduate Student • Advisor: Dr. Aaron Barkatt
9	<p>Improving Social and Executive Functioning Skills among Autistic College Students: A Group Intervention Efficacy Study</p> <ul style="list-style-type: none"> • Nicole Herman, School of Arts and Sciences (Psychology), PhD Student • Collaborators: Jamie Kleiner, Leah Gadi • Advisor: Dr. Brendan Rich

10	<p>Addressing the Challenges of Small Law Firms: A Comprehensive Analysis and Solution Framework</p> <ul style="list-style-type: none"> ● Chiamin (Tim) Tsai, School of Engineering (EECS), Master's Student ● Advisor: Matthew Jacobs, PhD
11	<p>RURAL ROOTS AND REGENERATION: Exploring Vernacular Social Housing in Rural Ecuador</p> <ul style="list-style-type: none"> ● Glenda Rojas, School of Architecture and Planning, Master's Student ● Advisor: Patricia Andrasik
12	<p>Exploring the Connection Between Hyaluronidase and Hyaluronan for Skin Hydration and Aging</p> <ul style="list-style-type: none"> ● Jacinta Garcia, Conway School of Nursing, Undergraduate Student ● Advisor: Dr. Gregory Miller
13	<p>The Search for Ionizing Sources in the Early Universe</p> <ul style="list-style-type: none"> ● Nicholas Michalczyk, School of Arts and Sciences (Physics), Undergraduate Student ● Advisor: Dr. Swara Ravindranath
14	<p>The Role of Race, Ethnicity, and Culture in the Collaborative Assessment and Management of Suicidality (CAMS): A Pilot Qualitative Study</p> <ul style="list-style-type: none"> ● David Choi, School of Arts and Sciences (Psychology), PhD Student ● Collaborators: Isaiah Chambers, Dave Jobes ● Advisor: Dave Jobes
15	<p>Osteoporosis: Methandrostenolone and Bone Density</p> <ul style="list-style-type: none"> ● Juliette Barth, Conway School of Nursing, Undergraduate Student ● Advisor: Dr. Miller
16	<p>Game Theory Framework for Streamlined Construction Bid Strategy Generation and Optimization</p> <ul style="list-style-type: none"> ● Kevin Adu-Mensah, School of Engineering (Department of Civil Engineering), Master's Student ● Collaborator: Dr. Jeffery Herrmann ● Advisor: Dr. Gunnar Lucko
17	<p>The Effectiveness of Haloperidol in Treating Agitation in Elderly Dementia Patients</p> <ul style="list-style-type: none"> ● Priya Mammen, Conway School of Nursing, Undergraduate Student ● Advisor: Dr. Gregory Miller
18	<p>The Relationship between CVD Risk Factors. and Select Risk Reduction Interventions in Middle-Aged African American Females</p> <ul style="list-style-type: none"> ● Kimberly Henderson, Conway School of Nursing, PhD Student ● Collaborators: 1st reader: Dr. Reiko Asano, PhD; 2nd Reader Dr. Nalini Jairath, PhDNa ● Advisor: Chair: Dr. Rebecca Robert PhD
19	<p>Intrafamilial Child Sex Trafficking in the United States</p> <ul style="list-style-type: none"> ● Alexa Finkelstein, Columbus School of Law, Law Student ● Advisor: Professor Mary Graw Leary

20	<p>Sleep in college students: Emotional control as a neurobiological mechanism underlying sleep-irritability dynamics</p> <ul style="list-style-type: none"> • Ena Sullivan, School of Arts and Sciences (Psychology), Undergraduate Student • Collaborators: Kelly Schoener, Jennifer Meigs, Elise Cardinale • Advisor: Dr Elise Cardinale
21	<p>An Exploration of the Future of Advanced Computing Techniques</p> <ul style="list-style-type: none"> • Hector Vega Bertol, School of Engineering (Department of Electrical Engineering and Computer Science), Undergraduate Student • Collaborator: Dr. Hieu Bui
22	<p>Advancing Diagnosis and Treatments of Normal Pressure Hydrocephalus (NPH): Uncovering New Insights in CSF Dynamics and Emerging Surgical Alternatives</p> <ul style="list-style-type: none"> • Jackson Mazza, School of Arts and Sciences (Psychology), Undergraduate Student • Collaborators: Ella O'Donnell, Ella Dudley, Stephen Cottingham, Michael Lopiano, Francine Fernandes
23	<p>Evaluating the Effectiveness of YOLOv8 for Brain Tumor Detection in Medical Imaging</p> <ul style="list-style-type: none"> • Rasha Alzahrani, School of Engineering (Electrical Engineering and Computer Science), PhD Student • Advisor: Dr.Hieu Bui
24	<p>Review of the Kinetics and Products Study of the Atmospheric Reaction of a Volatile Organic Compound with Chlorine Radicals</p> <ul style="list-style-type: none"> • Elisabeth Walsh, School of Arts and Sciences (Chemistry), Undergraduate Student • Advisor: Dr. Vadim Knyazev
25	<p>The Politics of Perception: Judgements of Culpability Across Ideologies</p> <ul style="list-style-type: none"> • Julia Kennedy, School of Arts and Sciences (Psychology), Master's Student • Collaborators: Tysyn Minnis, David Arroyo, Madison Schulte, Chase Kovalcheck, Hannah Chesterton • Advisor: Elise Cardinale
26	<p>Disorder within Order: Intrinsically Disordered Proteins Drive the Formation of Biomolecular Condensates</p> <ul style="list-style-type: none"> • Gina Verrengia, School of Arts and Sciences (Chemistry), Undergraduate Student • Advisor: Dr. Gregory Miller
27	<p>Targeting IP6K1 & IP6K2: A New Hope for Cancer Treatments</p> <ul style="list-style-type: none"> • Goodness Odagbodo, School of Arts and Sciences (Department of Chemistry), Undergraduate Student • Collaborator: Jack Falcon • Advisor: Dr. Gregory Miller
28	<p>The Illusion of Understanding and Reducing Overconfidence in Political Knowledge</p> <ul style="list-style-type: none"> • Samantha Davis, School of Arts and Sciences (Psychological Sciences), Master's Student • Collaborators: Madison I Schulte, Chase Kovalcheck, and Elise M. Cardinale • Advisor: Elise M. Cardinale

29	<p>Fields of Healing: Optimizing the Micro-Hospital Model for People, Planet, and Profit</p> <ul style="list-style-type: none"> ● Olivia DiMattio, School of Architecture and Planning, Master's Student ● Advisor: Patricia Andrasik
30	<p>Veteran Responses on the Suicide Status Form: A Cohort-Comparison Study</p> <ul style="list-style-type: none"> ● Evan Albury, School of Arts and Sciences (Psychology), PhD Student ● Collaborator: David A. JObes ● Advisor: David A. Jobes
31	<p>Changing the construction industry with Superabsorbent Polymers (SAP)</p> <ul style="list-style-type: none"> ● Grace Buttiglieri, School of Arts and Sciences (Chemistry), Undergraduate Student ● Advisor: Aaron Barkatt
32	<p>Effects of Fidelity Level on BSN Student Medication Administration Outcomes</p> <ul style="list-style-type: none"> ● Lesley McCorry, Conway School of Nursing, PhD Student ● Collaborators: Johnson, J.E., Asano, R., Goodman, P., Josephsen, J. ● Advisor: Dr. Joyce Johnson
33	<p>Transcriptional repression of polarity protein expression in hepatocellular carcinoma</p> <ul style="list-style-type: none"> ● Marina Maglente, School of Arts and Sciences (Biology department), Undergraduate Student ● Collaborators: Marina Maglente, Saniya Davis, Joeffrey Chahine and Pamela L. Tuma ● Advisor: Dr. Pamela Tuma
34	<p>Streamlined Shapley Value Calculation for Fair Compensation in Concurrent Construction Delays</p> <ul style="list-style-type: none"> ● Raha Hajjashrafi, School of Engineering (Civil Engineering Department), PhD Student ● Collaborators: Dr. Gunnar Lucko, Dr. Jeffrey W. Herrmann, Dr. Kiran R. Bhutani, & Dr. Mohamed S. Eid ● Advisor: Dr. Gunnar Lucko
35	<p>The Development of an Environmentally Friendly Concrete using Plastic Waste</p> <ul style="list-style-type: none"> ● Elisabeth Walsh, School of Arts and Sciences (Chemistry), Undergraduate Student ● Collaborator: Dr. Aaron Barkatt
36	<p>A Break from Tradition: Strategies and Approaches for Tutoring ESL/EFL Writers</p> <ul style="list-style-type: none"> ● Elliana Arnold, School of Arts and Sciences (English), Undergraduate Student ● Advisor: Dr. Okuma and Dr. Rulo
37	<p>The Impact of Sleep on the Use of Coping versus Problem-Solving Strategies in Depression</p> <ul style="list-style-type: none"> ● Emily Mitchell, School of Arts and Sciences (Psychology), PhD Student ● Collaborators: Tintumol Joseph, M.S., John Wright, Sarah Hunt, M.A., Abby Adler Mandel, Ph.D. ● Advisor: Abby Adler Mandel, Ph.D.
38	<p>Examining the Relationship between Sleep, Depression, and Social Problem-Solving among College Students through Baseline and Ecological Momentary Assessments</p> <ul style="list-style-type: none"> ● Emily Mitchell, School of Arts and Sciences (Psychology), PhD Student ● Collaborators: Abby Adler Mandel, Ph.D. ● Advisor: Abby Adler Mandel, Ph.D.

39	<p>Little Interactions, Lasting Impact: Capturing Moment-to-Moment Social and Emotional Dynamics</p> <ul style="list-style-type: none"> ● Chantelle Dias, School of Arts and Sciences (Psychology), Master's Student ● Collaborator: Elise M. Cardinale ● Advisor: Elise M. Cardinale
40	<p>Turning Point or Temporary Setback? The Effects of the Battle of Lepanto in European Society Across The Centuries</p> <ul style="list-style-type: none"> ● Samuel Lugiano, School of Arts and Sciences (History), Undergraduate Student ● Advisor: Dr. Paxton
41	<p>The Connected Families Program: A Pilot of a 4-week Intervention for Parents of Early Adolescents</p> <ul style="list-style-type: none"> ● Lydia Smith, School of Arts and Sciences (Psychology), PhD Student ● Collaborators: Marcie Goeke-Morey, PhD, Lillian Foote, MA, & Barry Wagner, PhD ● Advisor: Barry Wagner, PhD
42	<p>Size effect of FeF3 /Carbon particles on the conversion cathode material</p> <ul style="list-style-type: none"> ● Sukanya Goswami, School of Engineering (Department of Mechanical Engineering), PhD Student ● Collaborators: Binh Hoang, Amrit Kafle, Sneha P, Roya Damirchelli ● Advisor: Dr. Chuan-Fu Lin
43	<p>Enhancing the Teaching of Social Justice and Virtue to Undergraduate Nursing Students: Engagement Strategies for Integrating Catholic Social Teaching into Nursing Curricula</p> <ul style="list-style-type: none"> ● Maura Wenzel, Conway School of Nursing (Nursing), Faculty ● Collaborators: Martha Scheckel, PhD, RN, CNE
44	<p>Why Colonial History Still Makes the Dominican Republic Colonial</p> <ul style="list-style-type: none"> ● Aidan Malvey, School of Arts and Sciences (Modern Language (Spanish)), Undergraduate Student ● Collaborator: Aidan Malvey ● Advisor: Anastasiya Stoyneva
45	<p>Diocesan Assessment and Benchmark Initiative: An Energy Audit of the Newark Archdiocesan Center</p> <ul style="list-style-type: none"> ● Olivia DiMattio, School of Architecture and Planning, Master's Student ● Collaborators: Vincente Johnson, Victoria Volpi, Ashley Ringor, Melissa Kazanci ● Advisor: Patricia Andrasik
46	<p>Genome-Wide Electrostatic Analysis of Human Pleckstrin Homology (PH) Dom</p> <ul style="list-style-type: none"> ● Katarina Bauer, School of Arts and Sciences (Chemistry), Undergraduate Student ● Collaborator: Greg Miller ● Advisor: Greg Miller
47	<p>Analyzing and Predicting New York City Traffic Accidents: A Machine Learning Approach to Road Safety</p> <ul style="list-style-type: none"> ● Nikhil Kumar Reddy Dilli, School of Engineering (Data Analytics), Master's Student ● Advisor: Matthew Jacobs
48	<p>It Is What It Is: Vestiges of Realist Moral Philosophy in Business Law</p> <ul style="list-style-type: none"> ● Maximilian Torres, Tim and Steph Busch School of Business, Faculty ● Collaborator: Dr. Paul Radich

49	<p>HK-2 Cell Viability Inside a Hollow U-Shaped Tissue-Engineered Proximal Tubule Using a Photocrosslinked Hydrogel</p> <ul style="list-style-type: none"> • Hadeel Alqasiri, School of Engineering (Biomedical Engineering), PhD Student • Collaborators: Bidhan Bandyopadhyay, Sara Alqasire • Advisor: Christopher Raub
50	<p>A Review of Rotating Detonation Rocket Engines</p> <ul style="list-style-type: none"> • Mohammed Ansar Ali Mohammed Ali Jinnah, School of Engineering (Mechanical Engineering), Master's Student
51	<p>The Communication Divide: Self-Disclosure and Anxiety in Gen-Z</p> <ul style="list-style-type: none"> • Daniel Saba, School of Arts and Sciences (Psychology and Sociology), Master's Student • Advisor: Chelsea Kelly
52	<p>Assessing Simulated Blood Flow in a Tissue-Engineered Vessel using Laser Speckle Contrast Imaging</p> <ul style="list-style-type: none"> • Sara Alqasire, School of Engineering (Biomedical Engineering), PhD Student • Collaborators: George Nehmetallah, Daniel Sierra-Sosa, Christopher Raub, Hadeel Alqasiri • Advisor: Christopher Raub
53	<p>Belief vs. Law: Young Catholic Attitudes on the Morality and Legality of the Death Penalty</p> <ul style="list-style-type: none"> • Jordan Gehrig, School of Arts and Sciences (Sociology), Undergraduate Student • Advisor: Dr. Hannah Chesterton
54	<p>Leveraging Diversity-Aware Strategies and Collaborative Filtering in RAG-Based Recommender Systems</p> <ul style="list-style-type: none"> • Vy Nguyen, School of Engineering (Department of Electrical Engineering and Computer Science.), Master's Student • Advisor: Hieu Bui
55	<p>When Words Are Unauthored: An Exploration of Large Language Models and Process Writing Pedagogy</p> <ul style="list-style-type: none"> • Catalina Casarella, School of Arts and Sciences (English), Undergraduate Student • Advisor: Dr. Taryn Okuma
56	<p>Chemistry-Based Techniques Found Crucial to Understanding the Conformational Dynamics of Molecular Chaperone HSP90</p> <ul style="list-style-type: none"> • Julia Zapadka, School of Arts and Sciences (Department of Chemistry), Undergraduate Student • Advisor: Dr. Gregory Miller
57	<p>CMS Inner Tracker Silicon Module Testing</p> <ul style="list-style-type: none"> • Jordan Giandrea, School of Arts and Sciences (Physics), Undergraduate Student • Collaborators: Rhea Khatri, Bhavya Singhal, Shivam Raj, Ali Eren Simsek, Rachel Bartek, Aaron Dominguez • Advisor: Rachel Bartek
58	<p>Swipe to Success: How Short-Form Videos are Changing the Game for Brands and Society</p> <ul style="list-style-type: none"> • Julie Burke, School of Arts and Sciences (Department of Media and Communication Studies), Undergraduate Student • Advisor: Dr. Niki Akhavan and Glenn Østen Anderson

59	<p>Addressing Homelessness</p> <ul style="list-style-type: none"> ● Muhammad Ataul Gani, School of Architecture and Planning (Architecture), Master's Student ● Advisor: Patricia Andrasik
60	<p>Impact of Childhood Parenting Practices on the Psychological Well-being of Emerging Adults with Chronic Medical Conditions</p> <ul style="list-style-type: none"> ● Mary Rose Yockel, School of Arts and Sciences (Psychology), PhD Student ● Collaborator: Frances Cooke; Emma McGrade; Larry L. Mullins ● Advisor: Christina M. Sharkey
61	<p>Evaluating of Danazol as a Treatment for Endometriosis: Effectiveness, Limitations, and Future Research Directions</p> <ul style="list-style-type: none"> ● Maggie Goff, Conway School of Nursing (Chemistry), Undergraduate Student ● Advisor: Dr. Gregory Miller
62	<p>Artificial Intelligence & Building Performance Analytics: Examining Opportunities for AI Integration to Streamline the Sustainable Design Process</p> <ul style="list-style-type: none"> ● Vincente Johnson, School of Architecture and Planning (Architecture), Master's Student ● Olivia DiMattio ● Ashley Ringo ● rVictoria Volpi ● Advisor: Patricia Andrasik
63	<p>The Ruskiy Mir</p> <ul style="list-style-type: none"> ● Peyton Randolph, School of Arts and Sciences, Undergraduate Student ● Advisor: Father Mark Morozowich
64	<p>Organic Chemistry's Cognitive Load; Using Eye Tracking Technology to Study the Role of Working Memory</p> <ul style="list-style-type: none"> ● cynthia Contreras, School of Arts and Sciences (chemistry), Undergraduate Student ● Collaborators: Karl-Heinz Morose (Psychology, Arts & science) Katherine Havanki (Faculty, Chemistry department) ● Advisor: Katherine Havanki
65	<p>Evaluating Danazol as a Treatment for Endometriosis: Effectiveness, Limitations, and Future Research Directions</p> <ul style="list-style-type: none"> ● Maggie Goff, Conway School of Nursing (Chemistry), Undergraduate Student ● Advisor: Dr. Gregory Miller
66	<p>Unveiling Hidden Discounts and Price Trends on Amazon</p> <ul style="list-style-type: none"> ● ABDUL BASEER SHAIK, School of Engineering (DATA ANALYTICS), Master's Student ● Collaborator: syed riyaz - syedr@cua.edu ● Advisor: Dr. CHAOFAN SUN

67	<p>Incorporation of Psychophysiology Measures in Frustrating AX-Continuous Performance Task (FAX-CPT)</p> <ul style="list-style-type: none"> • Ashleigh Meskill & Lucy Knopf, School of Arts and Sciences (Department of Psychology), Undergraduate Student • Collaborators: Ena Sullivan, Jennifer Meigs, Shannon Shaughnessy, Emilio Valadez, Spencer Evans, & Kathryn Degnan • Advisor: Elise M Cardinale
68	<p>Stable Artificial Cell Membrane on Electrofabricated Biopolymer Scaffold</p> <ul style="list-style-type: none"> • Maria Hargrave, School of Engineering (The Department of Mechanical Engineering), Undergraduate Student • Collaborators: Louis Nwuha, Long Duong • Advisor: Dr. Xiaolong Luo
69	<p>Exploring Individual Differences in Adaptive and Maladaptive Risk Taking Behaviors Among Emerging Adults</p> <ul style="list-style-type: none"> • Javier Oliver, School of Arts and Sciences (Psychology), Master's Student • Collaborator: Fatima Casiano-Agosto • Advisor: Dr. Kathryn Degnan
70	<p>Protein Engineering Reveals the Role of IP6K2 in Cancer Cell Decision Making</p> <ul style="list-style-type: none"> • Richard Mattocks, School of Arts and Sciences (Department of Chemistry), Undergraduate Student • Collaborator: Dr. Gregory Miller • Advisor: Dr. Gregory Miller
71	<p>A Different Newport: Insularity and Socioeconomic Class in Newport, RI</p> <ul style="list-style-type: none"> • Katherine Plunkett, School of Arts and Sciences (Anthropology), Undergraduate Student • Advisor: samuels@cua.edu
72	<p>Closing the Resilience and Adaptability Discrepancy for Children of Single Parents: An Income-Adjusted Randomized Controlled Trial</p> <ul style="list-style-type: none"> • Cayden Antee, School of Arts and Sciences (Psychology), Master's Student • Collaborators: Alexa J. Hudock, Daniel A. Ponciano, Brendan A. Rich • Advisor: Brendan Rich
73	<p>Leveraging Ecological Momentary Assessment, Actigraphy, and Multilevel Modeling to Investigate the Relationship Between Sleep, Emotion Dysregulation, and Irritability</p> <ul style="list-style-type: none"> • Cayden Antee, School of Arts and Sciences (Psychology), Master's Student • Collaborators: Jennifer M. Meigs, Ena Sullivan, Kate Janczyk, Mackenna Olsen, Kathryn A. Degnan, Elise M. Cardinale • Advisor: Elise Cardinale
74	<p>Crystal Characterization for Calorimetry at the Future Circular Collider</p> <ul style="list-style-type: none"> • Bhavya Singhal, School of Arts and Sciences (Department of Physics), PhD Student • Collaborators: Harvey B. Newman, Liyuan Zhang • Advisor: Shin-Shan Eiko Yu
75	<p>Qualitative Analysis of the Relevancy of Primal Word Beliefs Among Individuals With a History of Suicidal Ideation</p>

	<ul style="list-style-type: none"> Stephanie Hunsucker, School of Arts and Sciences (Psychology), Master's Student Collaborators: Sarah L. Hunt, Anna Maclellan, Zach Lichauco, Charles Connolly Advisor: Abby Adler Mandel
76	<p>Albuterol Sulfate</p> <ul style="list-style-type: none"> Moses Vidal, Conway School of Nursing, Undergraduate Student Collaborator: Deirdre Kelley Advisor: DR Miller
77	<p>Protein Engineering: A Toolkit for Modern Medicine</p> <ul style="list-style-type: none"> Cephas Wilson-Bahun, School of Arts and Sciences (Department of Chemistry), Undergraduate Student Collaborators: Cephas Wilson-Bahun, Katarina Bauer, Jenna Cherico, Cynthia Contreras, Danelys Dilone, Savannah Hensley, Louis Nwuha, Marina Maglente, Richie Mattocks, Goodness Odagbodo, Teri Paradela, Gina Verrengia, Julia Zapadka and Gregory Miller Advisor: Gregory Miller
78	<p>Clinician Experience Using CAMS-4Teens and the CAMS Stabilization Support Plan</p> <ul style="list-style-type: none"> Margaret Cotter, School of Arts and Sciences (Psychology), Master's Student Collaborator: Stephanie Hunsucker Advisor: David A. Jobes
79	<p>Formaldehyde reacts with biomolecules to form stable products</p> <ul style="list-style-type: none"> Cephas Wilson-Bahun, School of Arts and Sciences (Department of Chemistry), Undergraduate Student Collaborator: Gregory Brewer Advisor: Gregory Brewer
80	<p>When Childhood Becomes Content: The Case for Stronger Protections Against Human Trafficking and Forced Labor for Child Influencers Under the TVPA</p> <ul style="list-style-type: none"> Marilyn Robinson, Columbus School of Law, Law Student Advisor: Mary Graw Leary
81	<p>Investigating Self-Related Factors and Suicide Risk: Analysis of the CAMS Suicide Status Form in Emerging Adults</p> <ul style="list-style-type: none"> W. Isaiah Chambers, School of Arts and Sciences (Psychology), PhD Student Advisor: Dr. David Jobes, PhD
82	<p>Do The Charges Unite When The Mosquitoes Come Bite?</p> <ul style="list-style-type: none"> Clarisse Quitain Dapul, School of Arts and Sciences (Chemistry), Undergraduate Student Collaborators: Danelys Dilone, Gregory Miller Advisor: Gregory Miller
83	<p>Marijuana Legalization and Labor Trafficking</p> <ul style="list-style-type: none"> Theresa Jeffrey, Columbus School of Law, Law Student
84	<p>Protein Engineering for Environmental Redmediation</p> <ul style="list-style-type: none"> Declan Pennese, School of Arts and Sciences (Department of Chemistry), Undergraduate Student Collaborator: Dr. Gregory Miller Ph.D. Advisor: Dr. Gregory Miller Ph.D.

85	<p>Atmospheric Phenomenology in Landscape Studies</p> <ul style="list-style-type: none"> • Lauren McGinn, School of Arts and Sciences (Anthropology, and Philosophy), Undergraduate Student • Advisor: Joshua Samuels
86	<p>ECG Signal Classification using Deep Learning & GANs for Rare Arrhythmia Detection</p> <ul style="list-style-type: none"> • Kaamaakshi Kaushik, School of Engineering, Master's Student
87	<p>Educational Implications of Explanatory Depth</p> <ul style="list-style-type: none"> • Ciara Donegan, School of Arts and Sciences (Psychology), Undergraduate Student • Advisor: Dr. Marc Sebrechts
88	<p>By Any Means Necessary : Angela Davis and the Prison Abolition Movement</p> <ul style="list-style-type: none"> • Catherine Darcy, School of Arts and Sciences (History Department), Undergraduate Student • Advisor: Dr. Thomas Cohen
89	<p>State Prevention of and Response to Child Sex Trafficking</p> <ul style="list-style-type: none"> • Audrey Ganley, Columbus School of Law, Law Student • Advisor: Professor Mary Graw
90	<p>Tracing the Origins of Political Violence: Conspiracy Beliefs & Psychopathy</p> <ul style="list-style-type: none"> • Chase Kovalcheck, School of Arts and Sciences (Psychology), Master's Student • Collaborators: Madison I. Schulte, Elise M. Cardinale • Advisor: Elise M. Cardinale
91	<p>Self- and Relational Orientations to Suicide among U.S. Soldiers: Leveraging Data from the Operation Worth Living (OWL) Randomized Controlled Trial</p> <ul style="list-style-type: none"> • Jackson Gasperecz, School of Arts and Sciences (Psychology), Master's Student • Collaborators: Margeaux Edwards, Emily Brabec, Edlawit Deneke, Jessica Gerner, M.A., Jennifer Crumlish, Ph.D., David Jobes, Ph.D. • Advisor: David Jobes, Ph.D.
92	<p>Episodic Future Thinking: Impact on Health/Risk Behaviors among ADHD College Students</p> <ul style="list-style-type: none"> • Juliana Venutolo, School of Arts and Sciences (Psychology), Undergraduate Student • Collaborators: Madeline Case, Reilly Gaitens, Nicholas Brestle, Brendan Rich • Advisor: Dr. Brendan Rich
93	<p>SMILES Visual Complexity Machine Learning Sorter</p> <ul style="list-style-type: none"> • Tommaso Marena, School of Arts and Sciences (Chemistry), Undergraduate Student • Advisor: Dr. Katherine Havanki
94	<p>A Review of Rotating Detonation Rocket Engines</p> <ul style="list-style-type: none"> • Ansar Ali, School of Engineering (Mechanical Engineering), Master's Student
95	<p>Electron-Only Reconnection in the Magnetosphere: A Machine Learning Approach</p> <ul style="list-style-type: none"> • Deep Ghuge, School of Arts and Sciences (Physics), PhD Student • Collaborator: NASA GDFC • Advisor: Vadim Uritsky

96	<p>Albuterol sulfate: history, uses & more</p> <ul style="list-style-type: none"> • Moses Vidal, Conway School of Nursing, Undergraduate Student • Collaborator: Deirdre Kelly • Advisor: Dr. Miller
97	<p>A Different Newport": Insularity and Socioeconomic Class in Newport, RI</p> <ul style="list-style-type: none"> • • Katherine Plunkett, School of Arts and Sciences (Anthropology), Undergraduate Student • • Advisor: Joshua Samuels
98	<p>Challenges of small law firms: A comprehensive analysis and solution framework</p> <ul style="list-style-type: none"> • Tim Tsai, School of Engineering, Master's Student
99	<p>Supervised Machine Learning for Predicting Nepheline Crystallization in High-Level Nuclear Waste Glasses</p> <ul style="list-style-type: none"> • Andreza Eufrazio Garcia Lima Eufrazio, School of Engineering (Electrical Engineering and Computer Science), Master's Student • Advisors: Matthew Jacobs
100	<p>Effectiveness of the Kids Out Loud summer treatment camp for youth with Selective Mutism</p> <ul style="list-style-type: none"> • Elizabeth McGill, School of Arts and Sciences (Psychology), Undergraduate Student • Collaborators: Elizabeth S. McGill, Samantha Davis, Leah Gadi, Alexa Hudock, Advisors: Brendan A. Rich, Ph.D, Veronica Raggi, Ph.D.

Musical Performances

The Rome School of Music, Drama and Art

Chairperson: Professor Peter Kadeli

Student Performances

"Romance Op. 23," Amy Beach: Edwin Barreno-Castillo, violin. Nolan Alexander Ancil, piano.

"The Holy City," Michael Maybrick: Jason Guerrero, voice.

Excerpts from Tartuffe (Act 2, Scene 3), Molière: Alexa Palena and Claire Sligh.

"A Piper," John Duke: Sophia Spencer, voice.

"And Then..." AF 85, Adian Feeney: Adian Feeney, piano.

"Ain't It a Pretty Night" from Susannah, Carlisle Floyd: Alexis Griess, voice. Alex Ancil, piano.

"Ave, magnifica Maria", "Beata viscera", "Angelus ad virginem", and "Nova, nova"
Performed by Porphyrión

"Allegro comodo" by Ludwig van Beethoven: Megan Sie, clarinet. Katherine Elizabeth Ma, cello.

"I Still Haven't Found What I'm Looking For," U2 and "Somebody That I Used to Know" by Goyte
Performed by the Washingtones

Sonata No. 1 in G Minor, I. Adagio by Johann Sebastian Bach: Anne Clancy, violin.

Faculty Performances

Two Preludes from 24 Preludes by Claude Debussy: Dr. Ivo Kaltchev, piano.

Canti della terra e del mare di sicilia by Alberto Favara:
Professor Celine Mogielnicki, voice. Dr. Peter Kadeli, piano.

"Canciones del Alba" by Carlos Guastavino: Professor Gustavo Ahualli, voice. Xiao Zhai, piano.

FilmFest, by Students from the School of Arts & Sciences, Media Studies

Chairperson: Professor Glenn Østen Anderson

Untitled

Director(s)/Producer(s): Sophia Foxon

Class: MDIA 302

TO/GET/HER

Director(s)/Producer(s): Vanessa Rosa

Class: MDIA 499

Community on Campus Slice of Fame: The Portnot Effect

Director(s)/Producer(s): Julie Burke

Class: MDIA 312

No, Stay A While

Director(s)/Producer(s): Matthew Nichols and Leyton Ramos-Platt

Class: MDIA 302

Runtime: 4:22

GOALS - Row Your Boat

Director(s)/Producer(s): Mary Pugh, Abigail Brown, and Francesco Triggiano

Class: MDIA 302

Runtime: 4:33

Goodbye Rome

Director(s)/Producer(s): Jared Junio, Christyana Nesala, and Simeon Morrow

Class: MDIA 312

Runtime: 7:40

CUA Athletics Video Montage

Director(s)/Producer(s): Kathryn Phillips

Online viewing is not available at this time.

The Deadline

Director(s)/Producer(s): Catherine McGovern and Teresa Varadan

Class: MDIA 499

Runtime: 7:06

Feedback to University Research Day 2025

Thank you very much for participating in University Research Day 2025!

There are surely aspects we can learn from and improve, and we greatly appreciate your comments and suggestions for Research Day. Your feedback will help us as a community to improve University Research Day. Please email researchday@cua.edu with your comments.