

2024 Award Winners

BIOMEDICAL ENGINEERING

Biomedical Engineering Capstone Award

Preemieum Reflux Detection: A Nasogastric Tube for Dual Monitoring and Feeding in Neonates

Conner Polacek | Biomedical Engineering | School of Science and Engineering | Senior

Max Ujhazy | Biomedical Engineering | School of Science and Engineering | Senior

Maria Luiza Hermann | Biomedical Engineering | School of Science and Engineering | Senior

Raegan Gouker | Biomedical Engineering | School of Science and Engineering | Senior

Katherine Flannery | Biomedical Engineering | School of Science and Engineering | Senior

Manoela Rocha Neves | Biomedical Engineering | School of Science and Engineering

Faculty Advisor/s: Leda Kloudas, Ph.D.

Award for Excellence in Biomedical Engineering

Discovering the Effect of Red Blood Cell Lysis Buffer on Gram-Positive and Gram-Negative Bacteria Kyla Covato | Biomedical Engineering, Applied Mathematics | School of Science and Engineering | Junior Faculty Advisor/s: John Viator, Ph.D.

CENTER FOR CATHOLIC FAITH AND CULTURE

Center for Catholic Faith and Culture Award

World Youth Day: A Spiritan Pilgrimage

Jasmine Urzua | Physician Assistant Studies | Rangos School of Health Sciences | Junior Emma Polen | Integrated Marketing Communications | McAnulty College and Graduate School of Liberal Arts | Senior

Faculty Advisor/s: Michele Wisnesck, MS

CENTER FOR COMMUNITY-ENGAGED TEACHING AND RESEARCH (CETR)

Award for Undergraduate Research

Black Doulas Perspectives of and Experience with the Edinburgh Postpartum Depression Scale Isabelle Ebenhoch | Nursing | School of Nursing | Senior

Grace Yeretzian | Nursing | School of Nursing | Senior

Sofia Rush | Nursing | School of Nursing | Senior

Faculty Advisor/s: Jessica Devido, Ph.D., APRN, CPNP

CENTER FOR EXCELLENCE IN DIVERSITY AND INCLUSION

Undergraduate Research Award

Black Doulas Perspectives of and Experience with the Edinburgh Postpartum Depression Scale
Isabelle Ebenhoch | Nursing | School of Nursing | Senior
Grace Yeretzian | Nursing | School of Nursing | Senior
Sofia Rush | Nursing | School of Nursing | Senior
Faculty Advisor/s: Jessica Devido, Ph.D., APRN, CPNP

CENTER FOR GLOBAL HEALTH ETHICS

Award for Undergraduate Research in Ethics

Al: Artificial Ignorance in Facial Biometrics
Samiya Henry | Physics | School of Science and Engineering | Junior
Faculty Advisor/s: John Slattery, Ph.D.

CENTER FOR MIGRATION, DISPLACEMENT, AND COMMUNITY STUDIES

Center for Migration, Displacement, and Community Studies Undergraduate Research Award

Pedagogy to Practice: Addressing the Differential Needs of At-Risk Gen-Z Students in Secondary and Post-Secondary Education

Fatima Zahra Demlak | Communication Studies, Political Science | McAnulty College and Graduate School of Liberal Arts | Senior

Maria Ortiz Jaunarena | Psychology | McAnulty College and Graduate School of Liberal Arts | Senior Faculty Advisor/s: Aleina Smith, Ph.D.

CENTER FOR TEACHING EXCELLENCE

Award for Undergraduate Research

Development and Usability Testing of a Multimedia Enhanced Healthy Lifestyle Behavior Intervention for People with Spinal Cord Injury

Tessa Datte | Digital Media Arts, Integrated Marketing Communication | McAnulty College and Graduate School of Liberal Arts | Senior

Alex McElravy | Digital Media Arts | McAnulty College and Graduate School of Liberal Arts | Senior Emily Talierco | Physical Therapy | Rangos School of Health Sciences | Freshman Faculty Advisor/s: Theresa Crytzer, Ph.D., PT, DPT; Bill Gibbs, Ph.D.

CENTER FOR WOMEN'S AND GENDER STUDIES

Award for Undergraduate Research

Black Doulas Perspectives of and Experience with the Edinburgh Postpartum Depression Scale
Isabelle Ebenhoch | Nursing | School of Nursing | Senior
Grace Yeretzian | Nursing | School of Nursing | Senior

Sofia Rush | Nursing | School of Nursing | Senior Faculty Advisor/s: Jessica Devido, Ph.D., APRN, CPNP

CHIEF DIVERSITY OFFICER/ PALUMBO DONAHUE SCHOOL OF BUSINESS

First Place for DEI Award for Undergraduate Research

Pedagogy to Practice: Addressing the Differential Needs of At-Risk Gen-Z Students in Secondary and Post-Secondary Education

Fatima Zahra Demlak | Communication Studies, Political Science | McAnulty College and Graduate School of Liberal Arts | Senior

Maria Ortiz Jaunarena | Psychology | McAnulty College and Graduate School of Liberal Arts | Senior Faculty Advisor/s: Aleina Smith, Ph.D.

Honorable Mention for DEI Award for Undergraduate Research

Perspectives on Inclusion: Near-Peer Mentoring Relationships between College Students with and without Intellectual and Developmental Disabilities (IDD)

Anna Stonesifer | Occupational Therapy | Rangos School of Health Sciences | Senior Samantha Smith | Occupational Therapy | Rangos School of Health Sciences | Senior Faculty Advisor/s: Meghan G. Blaskowitz, DrPH, MOTR/L, Alia Pustorino-Clevenger, Ed.D.

GREFENSTETTE CENTER FOR ETHICS IN SCIENCE, TECHNOLOGY, AND LAW

Top Undergraduate Research Project

Harnessing Neural Network Classification to Identify Illicit South African Sand Mines Jacob Mazurkiewicz | Data Science | School of Science and Engineering | Junior Faculty Advisor/s: Lauren Sugden, Ph.D.; David Kahler, Ph.D.

Undergraduate Research Award Honorable Mention

Measuring Attitudes about Artificial Intelligence Uses in Education

Isabella Donato | Psychology, Strategic Public Relations and Advertising | McAnulty College and Graduate School of Liberal Arts | Sophomore

Hannah Gorman | Psychology | McAnulty College and Graduate School of Liberal Arts | Senior Faculty Advisor/s: Alexander Kranjec, Ph.D.

GUMBERG LIBRARY

Gumberg Award for Undergraduate Research

Attitudes, beliefs, knowledge, and practices for over-the-counter syringe sales in community pharmacies: A systematic review

Katelyn Owens | Pharmaceutical Sciences | School of Pharmacy | Senior Faculty Advisor/s: Jordan Covvey, Pharm.D., Ph.D., BCPS

Gumberg Award for Undergraduate Research Honorable Mention

The Persistence of Human eDNA in Air

Kayla Houghton | Forensic Science and Law | School of Science and Engineering | Senior Faculty Advisor/s: Lyndsie Ferrara, Ph.D.; Pamela Marshall, Ph.D.

HONORS COLLEGE

Honors College Best Poster Award

Examining Trading Networks Between Imperial Rome and Imperial Han China during the 1st and 2nd Centuries AD

Juan Corujo | History, Classical Civilization | McAnulty College and Graduate School of Liberal Arts | Senior

Faculty Advisor/s: Sarah Miller, Ph.D.; Jing Li, Ph.D.

MARY PAPPERT SCHOOL OF MUSIC

Mary Pappert School of Music Undergraduate Research Award

Sibelius Symphony No. 2: The Role of Weather and Climate in the Fight for Finnish Autonomy Kaytoya Ichoku | Music | Mary Pappert School of Music | Sophomore Faculty Advisor/s: Nicole Vilkner, Ph.D.

MCANULTY COLLEGE AND GRADUATE SCHOOL OF LIBERAL ARTS

McAnulty College Outstanding Poster or Presentation

Examining Trading Networks Between Imperial Rome and Imperial Han China during the 1st and 2nd Centuries AD

Juan Corujo | History, Classical Civilization | McAnulty College and Graduate School of Liberal Arts | Senior

Faculty Advisor/s: Sarah Miller, Ph.D.; Jing Li, Ph.D.

OFFICE OF THE PROVOST

Award for Outstanding Research

Improving Pittsburgh Transit through Data Science Ethan Shearer | Data Science | School of Science and Engineering | Junior Faculty Advisor/s: Lauren Sugden, Ph.D.

Office of Research & Innovation Award for Outstanding Research

Examining Solutions for the Sexual Assault Kit Backlog
Gabrielle Gibbons | Forensic Science and Law | School of Science and Engineering | Senior
Faculty Advisor/s: Lyndsie Ferrara Ph.D., Pamela Marshall Ph.D.

Award for Best Presentation

Visualizing Rosenbluth Separations

Tyler Williams | Physics | School of Science and Engineering | Sophomore Faculty Advisor/s: Fatiha Benmokhtar, Ph.D.; Douglas Higinbotham, Ph.D.

PEACE, JUSTICE AND CONFLICT RESOLUTION

Award for Undergraduate Research in Peace, Justice and Conflict Resolution

The Cold War over Taiwan: America's Unsustainable Policy Toward the Taiwan Question James Harbert | History | McAnulty College and Graduate School of Liberal Arts | Junior Faculty Advisor/s: Jing Li, Ph.D.

Honorable Mention

Akir Ifkube's Godzilla main theme and its relationship to Japanese culture at the time. Eric Schaefer | Music | Mary Pappert School of Music | Senior Faculty Advisor/s: Benjamin Cornelius-Bates, DMA

RANGOS SCHOOL OF HEALTH SCIENCES

Award for Undergraduate Research

This is Getting out of Hand: Hand and Arm Limitations in Late Preterm Infants
Melanie Schultz | Health Sciences | Rangos School of Health Sciences | Senior
Melanie Tommer | Helath Sciences | Rangos School of Health Sciences | Senior
Emma Costello | Nursing | School of Nursing | Senior
Aleena Purewal | Health Sciences | Rangos School of Helath Sciences | Junior
Faculty Advisor/s: Regina Harbourne, Ph.D., PT, PCS

Award for Undergraduate Research

Impact of an Intensive Short-Term Intervention Program on an Adolescent with Residual Speech Errors Sara Tuddenham | Speech Language Pathology | Rangos School of Health Sciences | Senior Gianna Baker | Speech-Language Pathology | Rangos School of Health Sciences | Junior Faculty Advisor/s: Heather Rusiewicz, Ph.D., CCC-SLP

SCHOOL OF NURSING

School of Nursing Undergraduate Research Award

Does Instruction in Using a Physical Activity App Improve Outcomes in a Diabetes Prevention Program?

Katherine Bukowinski | Nursing | School of Nursing | Senior

Maura O'Neill | Nursing | School of Nursing | Senior

Kelly Gullo | Nursing | School of Nursing | Senior

Faculty Advisor/s: Melanie Turk, Ph.D., RN, FTNSS

School of Nursing Undergraduate Research Award - Honorable Mention

GENDER AS A MODERATOR OF DRINKING BEHAVIORS AND PERCEIVED COVID-19 RISK AMONG COLLEGE STUDENTS

William Buchholz | Nursing | School of Nursing | Senior Tanrak Ploykao | Nursing | School of Nursing | Senior Faculty Advisor/s: Mai-Ly Steers, Ph.D.

SCHOOL OF PHARMACY

Award for Undergraduate Research

STAT1 cleavage as a mechanism for dampening inflammatory signaling during a persistent juvenile brain infection

Natalie London | Biology | School of Science and Engineering | Senior Faculty Advisor/s: Lauren O'Donnell, Ph.D.

SCHOOL OF SCIENCE AND ENGINEERING

Award for Excellence in Research in the Basic Sciences

Improving Pittsburgh Transit through Data Science
Ethan Shearer | Data Science | School of Science and Engineering | Junior
Faculty Advisor/s: Lauren Sugden, Ph.D.

Award for Excellence in Research in the Basic Sciences

Examining the Presence of Foreign DNA on Neck Swabs

Alexa Gonzalez Morales | Forensic Science and Law, Biochemistry | School of Science and Engineering | Senior

Faculty Advisor/s: Lyndsie Ferrara, Ph.D.; L. Kathleen Sekula, Ph.D., PMHCNS-BC, FAAFS, FAAN

Honorable Mention

Functional Significance of Sequence Variation in the C-terminus tail of RsmE in Pseudomonas fluorescens McKenna Carroll | Biology | School of Science and Engineering | Senior Faculty Advisor/s: Wook Kim, Ph.D.

Honorable Mention

Discovering the Effect of Red Blood Cell Lysis Buffer on Gram-Positive and Gram-Negative Bacteria Kyla Covato | Biomedical Engineering, Applied Mathematics | School of Science and Engineering | Junior Faculty Advisor/s: John Viator, Ph.D.

Honorable Mention

STAT1 cleavage as a mechanism for dampening inflammatory signaling during a persistent juvenile brain infection

Natalie London | Biology | School of Science and Engineering | Senior Faculty Advisor/s: Lauren O'Donnell, Ph.D.

Honorable Mention

Visualizing Rosenbluth Separations

Tyler Williams | Physics | School of Science and Engineering | Sophomore Faculty Advisor/s: Fatiha Benmokhtar, Ph.D.; Douglas Higinbotham, Ph.D.

UNIVERSITY SUSTAINABILITY COMMITTEE (sponsorsed by: Center for Environmental Research and Education, Department of Sociology, School of Business)

Award for Excellence in Sustainability & the Environment

Corrupt Corporate Climate: A Literary Analysis of Noor's Perspective on Corporate and Governmental Role in Climate Change

Aaron Duke | Pharmacy Foundations | School of Pharmacy | Sophomore Faculty Advisor/s: Erin Speese, Ph.D.

Honorable Mention

Electronic Waste: An Analysis of the Newest Environmental Epidemic and Its Impacts

Dominic Failor | International Relations, International Security Studies | McAnulty College and Graduate
School of Liberal Arts | Sophomore
Faculty Advisor/s: Dina Huehn, Ph.D.

Honorable Mention

Environmental Justice: Helping Disadvantaged Communities Transition From Non-Renewables to Clean Energy (Comparative Analysis)

Kyra Miklos | Political Science | McAnulty College and Graduate School of Liberal Arts | Freshman Faculty Advisor/s: Michael Jarrett, MPP