



2026

# Student Research Symposium

*Promoting Collaboration Across Disciplines*

Friday, April 24th  
8:00 am - 2:15 pm  
The Conference Center  
University Hall, 7<sup>th</sup> Floor

Office of Research  
**MONTCLAIR**  
STATE UNIVERSITY

# 2026 Student Research Symposium

## Schedule of Events

Time	Event
8:00 am	<b>Doors Open for Student Check-In</b>
8:00 am - 8:40 am	<b>Light Continental Breakfast &amp; Refreshments</b>
8:40 am - 8:45 am	<b>Welcome</b> Dr. Stefanie Brachfeld, Vice Provost for Research and Interim Head of the Graduate Center
8:45 am - 9:00 am	<b>Opening Remarks</b> President Jonathan Koppell
9:00 am - 9:20 am	<b>Keynote Presentation</b> Dr. Sandra Adams, Professor Emerita "Lessons Learned - How Research Shaped my Career"
9:30 am - 10:30 am	<b>Poster Session 1</b>
10:45 am - 11:45 am	<b>Poster Session 2</b>
12:00 pm - 1:00 pm	<b>Poster Session 3</b>
1:15 pm - 2:15 pm	<b>Poster Session 4</b>

*\*All Symposium events take place in the Conference Center, University Hall, 7th Floor*

# Acknowledgements

## *The Review Committee*

**Dr. Ashley Ermer**, Associate Professor, Family Science and Human Development

**Dr. Cheryl Gray**, Assistant Professor, Psychology

**Dr. Christopher King**, Associate Professor, Psychology

**Dr. Deborah Chatr Aryamontri**, Associate Professor, Classics and General Humanities

**Dr. Dongdong Yang**, Assistant Professor, College of Communication and Media

**Dr. Elliot Hu-Au**, Assistant Professor, School of Computing

**Dr. Glen O'Neil**, Associate Professor, Chemistry and Biochemistry

**Dr. Jongho Moon**, Assistant Professor, Kinesiology

**Dr. Kate Nealon**, Assistant Professor, Communication Sciences and Disorders

**Dr. Lisa Hazard**, Associate Professor, Biology

**Dr. Martina Santia**, Assistant Professor, Political Science and Law

**Dr. Sarah Kelly**, Associate Professor, School of Nursing

**Dr. Yang Deng**, Professor, Earth and Environmental Studies

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## *Campus Partners*

**Office of Experiential Education and Career Connections**

**Office of Graduate Admissions**

**Office of Research - Office of Sponsored Programs**

**Office of Research - Office of Research Compliance and Regulatory Programs**

**The Graduate Center**

**University Libraries**

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## *Attending Employers*

**ANS, Consulting Engineering Firm**

**Brooksource**, Scientific and Technical Consulting

**Crestron Electronics**, Advanced Control and Automation Systems Manufacturing

**Department of Environmental Protection**, Federal Environmental Protection Agency

**Diversity Marketing and Communications**, Advertising, PR, & Marketing Services

**Mad Science of Northeast New Jersey**, K-12 Recreation and Science Education

**Nest Scientific USA**, Life Science Products Company

**227th Cyberspace Operations Squadron**, New Jersey Air National Guard

**WallynZavy's Autistic Kids Can Do**, Non-Profit Organization

**Your Dreamwall**, Professional Training and Coaching

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## ***Keynote Speaker***

**Dr. Sandra Adams**, Professor Emerita

"Lessons Learned - How Research Shaped my Career"

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## ***The Planning Committee***

**Dr. Stefanie Brachfeld**, Vice Provost for Research and Interim Head of the Graduate Center

**Kimberly Blatt**, Director of Research Compliance, Research Compliance and Regulatory Programs, Office of Research

**Allisun Romain**, Compliance Coordinator, Research Compliance and Regulatory Programs, Office of Research

**Alexandra McGinley**, Compliance Coordinator, Research Compliance and Regulatory Programs, Office of Research

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## ***Event Volunteers***

**Meghan Aitken**  
*Student Development  
and Campus Life*

**Grace Clark**  
*College for Community  
Health*

**Olga  
Libman-Roshal**  
*College of Science and  
Mathematics*

**Karen Ramsden**  
*Communications and  
Marketing*

**Sarah Assalone**

**Gena Coffey**

**Julia Loken**

**Sheetal Ranjan**

<i>College of the Arts</i>	<i>University Facilities</i>	<i>College of Humanities and Social Sciences</i>	<i>College of Humanities and Social Sciences</i>
<b>Vidya Atal</b> <i>Feliciano School of Business</i>	<b>Chrysten Colacicco</b> <i>College of Humanities and Social Sciences</i>	<b>Bridget Looney</b> <i>College for Education and Engaged Learning</i>	<b>Jessica Restaino</b> <i>College of Humanities and Social Sciences</i>
<b>Amanda Bachan</b> <i>Feliciano School of Business</i>	<b>Kyle Courter</b> <i>College of the Arts</i>	<b>Evan Matthews</b> <i>College for Community Health</i>	<b>John Rogers</b> <i>Institutional Review Board</i>
<b>Pevitr Bansal</b> <i>College of Humanities and Social Sciences</i>	<b>Aishwarya Santosh Deshpande</b> <i>College of Science and Mathematics</i>	<b>Sheryline McGee</b> <i>Treasury and Finance</i>	<b>Sanaz Saminejad</b> <i>College of Humanities and Social Sciences</i>
<b>Robyn Becker</b> <i>College for Community Health</i>	<b>Ana DiGiovanni</b> <i>College of Humanities and Social Sciences</i>	<b>Stefanie Medina</b> <i>College of Humanities and Social Sciences</i>	<b>Yoko Sato</b> <i>College of Science and Mathematics</i>
<b>Elizabeth Benfanti</b> <i>Feliciano School of Business</i>	<b>Amirah Elayan</b> <i>College of Communications and Media</i>	<b>Tara Mellor</b> <i>Student Development and Campus Life</i>	<b>Luis Torres</b> <i>College for Community Health</i>
<b>Michael Bixter</b> <i>College of Humanities and Social Sciences</i>	<b>Manny Gonzalez</b> <i>College of Humanities and Social Sciences</i>	<b>Wissam Morgan</b> <i>Treasury and Finance</i>	<b>David Vincenti</b> <i>Feliciano School of Business</i>
<b>Meghan Buckley</b> <i>Student Development and Campus Life</i>	<b>Peter Hosick</b> <i>College for Community Health</i>	<b>Jessica Murphy</b> <i>Academic Affairs</i>	<b>Jennifer Woodring</b> <i>College of Science and Mathematics</i>
<b>Jasmine Butler</b> <i>Enrollment Management</i>	<b>Bridget Jivanelli</b> <i>University Libraries</i>	<b>Laura Nicosia</b> <i>College of Humanities and Social Sciences</i>	<b>John Yi</b> <i>Academic Affairs</i>
<b>Alyson Byrne</b> <i>University Facilities</i>	<b>Tara Johnson</b> <i>Treasury and Finance</i>	<b>Nathalie Pfeifer</b> <i>College for Community Health</i>	<b>Maria Zaino</b> <i>Enrollment Management</i>
<b>Kin Carines Kent</b> <i>Treasury and Finance</i>	<b>Alexis Khursigara</b> <i>College of Science and Mathematics</i>	<b>Fiona J Harris Ramsby</b> <i>Humanities</i>	<b>Tara Morlando Zurlo</b> <i>Enrollment Management</i>

## Poster Session 1: 9:30 - 10:30 AM

*(Alphabetical by Presenter's Last Name)*

**Title:** Peak Inversion in Photoelectrochemical Measurements Studied using Cyclic Voltammetry

**Presenter:** Sham Abdul

**Faculty Sponsor:** Glen O'Neil

**Co-Presenter(s):** Amy Oscanoa

**Title:** The Contemporary Battle Between the Second Amendment and Public Safety

**Presenter:** Nicholas Accardi

**Faculty Sponsor:** Thomas Loikith

**Title:** Effects of Aquatic Herbicide ProcellaCOR under Road Salt Exposure on Freshwater Phytoplankton

**Presenter:** Arif Ahmed

**Faculty Sponsor:** Matthew Schuler

**Title:** Patterns of Critical Statistical Literacy Habits of Mind across Preservice Teachers and Adults

**Presenter:** Asja Alic

**Faculty Sponsor:** Nina Bailey

**Title:** The Effects of Urbanization on River Flooding

**Presenter:** Nick Arabia

**Faculty Sponsor:** Gregory Pope

**Title:** Online Fashion Consumerism Among Women

**Presenter:** Md Samiul Hasan Aric

**Faculty Sponsor:** Patrali Chatterjee

**Co-Presenter(s):** Itika Malhotra

**Title:** Evoked Potentials to Novel Minimal Pairs in Monolinguals and Bilinguals

**Presenter:** Susan Arzac

**Faculty Sponsor:** Subong Kim

**Title:** Spatial Variation of Urban Noise Pollution: The Influence of Environmental Factors

**Presenter:** Andres Augeraud

**Faculty Sponsor:** Gregory Pope

**Title:** Assessing the Impact of Highway Proximity on Lead Concentrations in Wetland Soils at Troy Meadows Preserve, New Jersey

**Presenter:** Katelyn Badke

**Faculty Sponsor:** Gregory Pope

**Title:** Solar Photovoltaic Potential to Offset Campus Electricity Demand at Montclair State University

**Presenter:** Josemy Barrera

**Faculty Sponsor:** Gregory Pope

**Title:** Helical Peptide Mimetics as Selective Mixed Inhibitors of *Wuchereria bancrofti* DHFR for Lymphatic Filariasis

**Presenter:** Ariaxi Lock Becerra

**Faculty Sponsor:** Nina Goodey

**Title:** Increasing Compliance with Pain Documentation in the Interdisciplinary Plan of Care (IPOC)

**Presenter:** Julia Bil

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Jasmin Hernandez, Rawan Baroud

**Title:** How AmeriCorps Participation Impacts Speech-Language Pathology Graduate Education

**Presenter:** Alexandra Bond

**Faculty Sponsor:** Lesley Sylvan

**Co-Presenter(s):** Jillian Zimmermann

**Title:** Unlocking Developer Adoption of Ground-Source Heat Pumps in New Jersey Residential Construction

**Presenter:** David Bouthot

**Faculty Sponsor:** Meghann Smith

**Title:** Interpreting Effects of Coral Restoration Work on Urchin Genus Evenness

**Presenter:** Faith Bulger

**Faculty Sponsor:** Gregory Pope

**Title:** Comparing Risky Decision Making in Individuals and Groups

**Presenter:** Courtney Burlingame

**Faculty Sponsor:** Michael Bixter

**Title:** Influence of Listeners' English Language Varieties on Perception of Prosodic Events

**Presenter:** Syd Butler

**Faculty Sponsor:** Jonathan Howell

**Co-Presenter(s):** Violet Miller, Zoe Bagley, Melanie Napa, Tyrah Odoms, Vidal Munoz, Shamari Crawford

**Title:** SPECTRA: A Multi-Domain Standards-Aware Pipeline for Structured Threat and Knowledge Extraction

**Presenter:** Darryl Carpenter

**Faculty Sponsor:** Debapriya Hazra

**Title:** What Effects Do Heavier Nor'easter Winds Have on Storm Surge along the New Jersey Coast during Different Seasons?

**Presenter:** Annaliz Cosme

**Faculty Sponsor:** Gregory Pope

**Title:** Behavior and Affect in Community Integration Following Traumatic Brain Injury

**Presenter:** Mariana Costa

**Faculty Sponsor:** Ruth Propper

**Title:** Structural Investigation of the Indole-3-Glycerol Phosphate Synthase E219Q Mutant

**Presenter:** Hana Sarmiento Cotzomi

**Faculty Sponsor:** Nina Goodey

**Co-Presenter(s):** Bernard Coronado, Sukjot Singh

**Title:** Who Gets Accommodated? The Role of Status Characteristics in Reasonable Accommodation Decision-Making

**Presenter:** Evelyn Dishaw

**Faculty Sponsor:** Valerie Sessa

**Title:** The Influence of Social Norms and Message Framing on Environmental Decision Making

**Presenter:** Nicolina Echevarria

**Faculty Sponsor:** Michael T. Bixter

**Co-Presenter(s):** Haydee Aguilar

**Title:** Comparative Study of CpG Islands between Diapausing and Non-Diapausing Mosquito Species

**Presenter:** Natalie Epstein

**Faculty Sponsor:** Matthew Aardema

**Title:** Imaginative Play and Social Flexibility: Moderated by Autism Status

**Presenter:** Haya Farhan

**Faculty Sponsor:** Erin Kang

**Title:** Quantifying Differences in Stormwater Infrastructure Resilience to Projected Future Rainfall Between Socioeconomically Distinct Municipalities: A Comparative Analysis of Montclair and East Orange, New Jersey

**Presenter:** Samantha Faust

**Faculty Sponsor:** Gregory Pope

**Title:** Explainability and Accountability in AI-Driven ESG Scoring: A Bibliometric Analysis and Governance Framework

**Presenter:** Sheikh Md Faysal

**Faculty Sponsor:** Dr. Serhat Simsek

**Title:** Abstractions After Death in Roman Civilization

**Presenter:** Hue Gomez  
**Faculty Sponsor:** Deborah Chatr Aryamontri

**Title:** Olivine Weathering and The Mobility of Magnesium and Iron in Basaltic Terrains  
**Presenter:** Santiago Gomez  
**Faculty Sponsor:** Gregory Pope

**Title:** Effect of Product Format on Consumer Acceptance of Greek Yogurt: A Sensory Comparison of Drinkable and Spoonable Products  
**Presenter:** Matt Grizil  
**Faculty Sponsor:** Charles Feldman  
**Co-Presenter(s):** Karen Mendez Camacho, Anuska Bhandari

**Title:** Cytochrome P450 BM3 E267Q and Inhibition  
**Presenter:** Genecis Urena Guzman  
**Faculty Sponsor:** Jaclyn Catalano

**Title:** Environmental Pathways of Antibiotic Contamination and Antimicrobial Resistance in New Jersey Freshwater Systems  
**Presenter:** Victoria Hanson  
**Faculty Sponsor:** Gregory Pope

**Title:** Urban Land Reclamation, Shoreline Transformation, and Flood Vulnerability in Hudson County, New Jersey  
**Presenter:** Yael Herrera  
**Faculty Sponsor:** Gregory Pope  
**Co-Presenter(s):**

**Title:** When are two heads better than one? Dynamic decision-making performance in individuals vs. dyads  
**Presenter:** Hannah Hollow  
**Faculty Sponsor:** Michael Bixter

**Title:** Nutrient Intake and Symptom Assessment in Patients with TANGO2 Deficiency Disorder  
**Presenter:** Zhi-Yi Hsu  
**Faculty Sponsor:** Mousumi Bose

**Title:** Importance of a Conserved Acidic Residue in Cytochrome P450  
**Presenter:** Oriannys Infante  
**Faculty Sponsor:** Jaclyn Catalano

**Title:** Portraiture and Cultural Identity Represented by Etruscan Funerary Urns  
**Presenter:** Kelsey Insinga  
**Faculty Sponsor:** Deborah Chatr Aryamontri

**Title:** Artificial Intelligence Chatbots, Trauma, and Help-Seeking: Attitudes Among University Students: A Pilot Study

**Presenter:** Ghowash Irshad

**Faculty Sponsor:** David Eisenberg

**Co-Presenter(s):** Martin Briceno

**Title:** Enhancing Functional Communication Assessment: The Context Adjustable Language Measure (CALM)

**Presenter:** Omayma Jabara

**Faculty Sponsor:** Kate Nealon

**Co-Presenter(s):** Madison Mulhall

**Title:** Emotional Impulsivity as a Moderator of the Relationship Between Callous-Unemotional Traits and Punishment Responsiveness in Youth

**Presenter:** Silina Jaber

**Faculty Sponsor:** Pevitr Bansal

**Title:** Analysis of Manual Therapy Parameters In New Jersey Licensed Athletic Trainers

**Presenter:** Treyallen Jackson

**Faculty Sponsor:** Fredrick Gardin

**Title:** Solvent Viscosity Effect on Wuchereria bancrofti Dihydrofolate Reductase (Wb DHFR)

**Presenter:** Natalie Jefferson

**Faculty Sponsor:** Nina Goodey

**Title:** Effect of Structured Social Support on Anxiety and Depression in Injured Athletes Undergoing Rehabilitation

**Presenter:** Nikayla Johnson

**Faculty Sponsor:** Fredrick Gardin

**Title:** From Revolution to Protest: The Evolving Role of Poetry in Youth Activism in Nepal

**Presenter:** Jacob Kaczorowski

**Faculty Sponsor:** Arnaud Kurze

**Title:** Examining the Relationship Between Self-Reported Sleep Duration and Return-To-Sport Timeline Following A Concussion Incident in NCAA Division III Athletes

**Presenter:** Fatima Kakadendi

**Faculty Sponsor:** Luis Torres

**Title:** The Determination of the Rate-Limiting Step in the Repair Cycle of DNA Photolyase

**Presenter:** Darina Korneeva

**Faculty Sponsor:** Dr. Yvonne Gindt

**Co-Presenter(s):** Himani Batham, Sabrina Stroman, Owen Young

**Title:** Calibration Curve Method for Determination of Hydroxylamine

**Presenter:** Hellen Ladino

**Faculty Sponsor:** Wanlu Li

**Title:** The Perceived Stress of Female Collegiate Athletes and the Effects it has on Academic and Athletic Performance

**Presenter:** Madison Leech

**Faculty Sponsor:** Fredrick Gardin

**Title:** Synthesis and Study of a New Fluorescence Sensor for Protons

**Presenter:** Caroline Lehrbaum

**Faculty Sponsor:** Saliya de Silva

**Title:** Expression and Purification with Initial Kinetic Studies and SDS-PAGE for Wuchereria Bancrofti Dihydrofolate Reductase

**Presenter:** Angeline Lock

**Faculty Sponsor:** Nina Goodey

**Co-Presenter(s):** Jasmine Fernando

**Title:** Athletic Trainer Perceptions of Therapeutic Modality Reliance and Rehabilitation Understanding

**Presenter:** Frankie Lopez

**Faculty Sponsor:** Fredrick Gardin

**Title:** What is the Effect of Balance Training on the Occurrence of Knee Injuries in Hockey Players? **Presenter:** Alyssa Lopez

**Faculty Sponsor:** Fredrick Gardin

**Title:** Energy-Efficient PFAS Degradation via UV-Based Advanced Reduction Processes: A Data-Driven Analysis of Energy Demand and Governing Factors

**Presenter:** Fan Lu

**Faculty Sponsor:** Mark Chopping

**Title:** Self-Reported Kinesiophobia as a Predictor of Return-to-Play Outcomes Following Musculoskeletal Injury

**Presenter:** Tori Maceira

**Faculty Sponsor:** Fredrick Gardin

**Title:** Comparing Environmental Impacts of Sustainable and Conventional Shampoos

**Presenter:** Karina Magro Machado

**Faculty Sponsor:** Mark Chopping

**Title:** Cryotherapy vs. Active Recovery for Delayed Onset Muscle Soreness in Athletes: A Critically Appraised Topic and Narrative Review

**Presenter:** Karly Manning

**Faculty Sponsor:** Fredrick Gardin

**Title:** Environmental Impact and Human Factors Assessment for Human-Robot Collaborative Disassembly: Toward Sustainable Industry 5.0 Manufacturing

**Presenter:** Cristian Camilo Noriega Monsalve

**Faculty Sponsor:** Weitian Wang

**Title:** In & At Prepositional Use: A Comparative Annotation Study

**Presenter:** Jessica Garcia Murcia

**Faculty Sponsor:** Libby Barak

**Title:** Effects of a Dynamic Dry Land Warm-up Program on College-aged Swimmers' Performance Time

**Presenter:** Leah Murphy

**Faculty Sponsor:** Luis Torres

**Title:** Does Ankle Taping or Ankle Bracing Reduce the Occurrence of Ankle Injury among Adolescent Athletes?

**Presenter:** Jack Norberto

**Faculty Sponsor:** Fredrick Gardin

**Title:** Structural Characterization of M. tuberculosis IGP Synthase (IGPS) Variants Using Circular Dichroism (CD) Spectroscopy

**Presenter:** Ben-Ryan Ofori-Koranteng

**Faculty Sponsor:** Nina Goodey

**Title:** Before It Takes Root: Mindfulness-Based Early-Interventions at Schools

**Presenter:** Idil Ozhan

**Faculty Sponsor:** Clewiston Challenger

**Title:** Through their Gaze: Young Children as Researchers and Photographers

**Presenter:** MJ Palombo

**Faculty Sponsor:** Elizabeth Erwin

**Co-Presenter(s):** Laura Adair Clark, Lisa Schweitzer

**Title:** Shaping Sustainable Food Systems: Qualitative Insights from Food Scientists

**Presenter:** Srushti Vishalbhair Parikh

**Faculty Sponsor:** Charles Feldman

**Title:** Evaluating Cognitive Function and Memory Impairment in Collegiate Athletes With Varying Concussion Histories

**Presenter:** Michelle Park

**Faculty Sponsor:** Fredrick Gardin

**Title:** Constructing Threat – The Legal Architecture of the Immigrant-Crime Myth

**Presenter:** Heitor Pedroza

**Faculty Sponsor:** Thomas Loikith

**Title:** Does Lower-extremity Resistance Training Reduce MPFL Injury or Patellar Instability Risk in Multidirectional Sport Athletes? A Critically Appraised Topic

**Presenter:** Elijah Perez

**Faculty Sponsor:** Fredrick Gardin

**Title:** E168D Mutation Displays an Inverse Solvent Viscosity Effect in M. tuberculosis IGP Synthase Catalysis

**Presenter:** Isyss Perez

**Faculty Sponsor:** Nina Goodey

**Title:** Psychosocial Risk Factors and Psychological Interventions in Musicians: Implications for Musculoskeletal Health

**Presenter:** Alazia Peters

**Faculty Sponsor:** Fredrick Gardin

**Title:** Maternal Communication on Gun Violence, Manhood, and Mental Health: Insights from Black and Hispanic Mothers in Paterson, New Jersey

**Presenter:** Shamecia Pullem

**Faculty Sponsor:** Dr. Sheetal Ranjan

**Title:** In Recreationally Active College Age Females with Chronic Ankle Instability, how does Neuromuscular Electrical Stimulation Application during BioSway Balance Training affect Functional Scores?

**Presenter:** David Rios

**Faculty Sponsor:** Fredrick Gardin

**Title:** Barriers to Residential Geothermal Heat Pump Adoption in New Jersey

**Presenter:** Edwin Robles

**Faculty Sponsor:** Meghann Smith

**Co-Presenter(s):** Dave Bouthot, Christopher Zachwieja

**Title:** Substrate-Dependent Enzyme Kinetics of Cytochrome P450

**Presenter:** Brittany Roman

**Faculty Sponsor:** Jaclyn Catalano

**Title:** ECG-Based Seizure Prediction and Detection: Patient-Specific Cardiac Responsiveness Tied to Seizure Semiology

**Presenter:** Mohammad Salem

**Faculty Sponsor:** Debapriya Hazra

**Title:** The Effect of Resistance Training on Accuracy in Overhead Throwing

**Presenter:** Aiden Samila

**Faculty Sponsor:** Fredrick Gardin

**Title:** Parental Perceptions of Using Gaming Interventions With Children on the Autism Spectrum

**Presenter:** Carmelina Santiago  
**Faculty Sponsor:** Sarah Kelly  
**Co-Presenter(s):** Nidhi Thakor, Jennifer Rodriguez

**Title:** Using Large Language Models to Reliably Measure Psychological Constructs  
**Presenter:** Md Allama Iqbal Sijan  
**Faculty Sponsor:** Michael Bixter  
**Co-Presenter(s):** Jasmine Friedman, Rachel Helisch

**Title:** Evaluating the Impact of Green Infrastructure on Stormwater Runoff in Philadelphia's Lower Schuylkill Watershed (2011-2021)  
**Presenter:** Jacob Solinski  
**Faculty Sponsor:** Gregory Pope

**Title:** Sleep Deprivation and Athletic Performance  
**Presenter:** Sonya Sterett  
**Faculty Sponsor:** Fredrick Gardin

**Title:** Why Battered Woman Syndrome Matters  
**Presenter:** Aniya Stewart  
**Faculty Sponsor:** Thomas Loikith

**Title:** Comparison of Neuromuscular Electrical Stimulation and Therapeutic Ultrasound for Pain Reduction Following Rotator Cuff Repair  
**Presenter:** Darren Teixeira  
**Faculty Sponsor:** Frederick Gardin

**Title:** Annotation of Question in Child-directed Speech and Synthetic Datasets  
**Presenter:** Zoe Vanderhoff  
**Faculty Sponsor:** Libby Barak  
**Co-Presenter(s):** Nicholas Herrera Pineda, Maxwell Doroen, Fatima Abuawadeh, Arianna Marshall, Sara Flores, Alyssa Santiago

**Title:** Neighborhood-Level Flood Risk and Infrastructure Capacity in the Passaic River Watershed  
**Presenter:** Samantha Vasquez  
**Faculty Sponsor:** Gregory Pope

**Title:** Stimulus Complexity and Perceptual Features on Reward-Based Prioritization  
**Presenter:** Alejandro Caro Velasquez  
**Faculty Sponsor:** Joshua Sandry  
**Co-Presenter(s):** Allison Marino

**Title:** Combining Transit-Oriented Development with Centralized Commercial Districts to make New Jersey a More Accessible and Walkable State  
**Presenter:** Caleb Wiggs  
**Faculty Sponsor:** Gregory Pope

**Title:** From Soil to Solution: Effect of Different Groups of Artificial Root Exudates on Metal Speciation in a Brownfield

**Presenter:** Naima Zaheer

**Faculty Sponsor:** Nina Goodey

**Title:** Facilitator Perspectives on Gaming as an Intervention for Children with Autism in an Eight Week Program

**Presenter:** Daniella Zamora

**Faculty Sponsor:** Sarah Kelly

**Co-Presenter(s):** Elyssa Mae Veluz, Shanise Rose, Jennifer Ferreira

**Title:** Developing Annotation Guidelines for Capturing Situational Variation in University Lectures

**Presenter:** Kaung Hla Zan

**Faculty Sponsor:** Larissa Goulart

**Co-Presenter(s):** Ayah Elzomor , Reem Elzomor , Maryam Arafa , Kevin Grealis , Erin Milner , Samuel Morell , Carlos Ruiz

**Poster Session 2: 10:45 - 11:45 AM**

*(Alphabetical by Presenter's Last Name)*

**Title:** Delay of Gratification and Academic Outcomes in College Students

**Presenter:** Haydee Aguilar

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Cassandra Tucker, Nicole Hache Diaz

**Title:** Lifelong Navigation Experience Predicts Wayfinding Performance in Virtual Environments

**Presenter:** Alma Almasarwah

**Faculty Sponsor:** Yingying Yang

**Co-Presenter(s):** Keren Morales, Kenya Santiago Sorian, Madeline Rogers, Esmerline Nunez-Moya

**Title:** Transcriptomic Responses of Teleost Fishes to Thermal and Environmental Stress: A Synthesis of RNA-Seq Studies

**Presenter:** Aleen Ammar

**Faculty Sponsor:** Kevin Bilyk

**Title:** Optimization of Electrophoretic Mobility Shift Assay to Explore DNA Aptamer Binding with Ranavirus Major Capsid Protein

**Presenter:** Anushka Anushka

**Faculty Sponsor:** Nina Goodey

**Title:** Cannabis Use in Youth and Its Association with Adverse Mental Health Outcomes: A Literature Review

**Presenter:** Alexia Arseniu

**Faculty Sponsor:** Nicole Lytle

**Title:** Life Cycle Assessment of Sediment Remediation Strategies for a Contaminated Urban River in New Jersey, USA

**Presenter:** John Aseperi

**Faculty Sponsor:** Huan Feng

**Title:** An Integration of Geospatial Analysis and Life Cycle Assessment for Ground Source Heat Pumps (GSHP) Adoption Potential across New Residential Building Typologies in New Jersey

**Presenter:** Mercy Atolagbe

**Faculty Sponsor:** Meghann Smith

**Title:** The Influence of Traumatic Brain Injury and Callous-Unemotional Traits on Conduct Disorder Diagnosis

**Presenter:** Swetha Ayinala

**Faculty Sponsor:** Pevitr Bansal

**Co-Presenter(s):** Isabella Bernier, Silina Jaber

**Title:** Cognitive-Integrated Motor Training Enhances Gait and Balance in Traumatic Brain Injury

**Presenter:** Arianna Bagagem

**Faculty Sponsor:** Ruth Propper

**Title:** TOL-1 Receptor a Mediator of Bacterial Lipopolysaccharides Response in *Caenorhabditis elegans*

**Presenter:** Camelia Yasmine Bechia

**Faculty Sponsor:** Christos Suriano

**Title:** Scenario-Based Economic Valuation of Forest Carbon Sequestration in Nepal: Implications for REDD+ (2030–2050)

**Presenter:** Gita Bhushal

**Faculty Sponsor:** Pankaj Lal

**Title:** Optimization of Water and Nutrient Use Efficiency: An Experimental Evaluation of Closed-Loop vs. Open-Loop Irrigation Systems for Tomato Production in Controlled Environment Agriculture (CEA) in the New York Metropolitan Region

**Presenter:** Sumanth Borigi

**Faculty Sponsor:** Meghann Smith

**Title:** “AI Can Be Helpful But Can Be Abused”: Preservice Teachers’ Perspectives on AI in Teaching

**Presenter:** Lydia Brubaker

**Faculty Sponsor:** Minsun Shin

**Title:** Contaminant Leaching & Runoff from Turf Fields

**Presenter:** Jakub Brzyzek

**Faculty Sponsor:** Lisa Johnson

**Title:** Social Support and Post-Traumatic Growth: Moderating Roles of Attachment Anxiety and Trauma Severity

**Presenter:** Courtney Burlingame

**Faculty Sponsor:** Adam Natoli

**Co-Presenter(s):** Pierre Soumeillant

**Title:** Q-SENTRY - A Modular Quantum-Resistant Cryptography Software Development Kit

**Presenter:** Darryl Carpenter

**Faculty Sponsor:** Stefan Robila

**Title:** The Potential Effect of Global Warming- The Influence of Thermal Stress on Cloning and Survival of Clinging Jellyfish (*Gonionemus vertens*) Polyyps

**Presenter:** Purna Chakraborty

**Faculty Sponsor:** Paul Bologna

**Title:** Discipline vs. Support: Who Is Referred and Who Is Removed?

**Presenter:** Divya Chanderjit  
**Faculty Sponsor:** Nancy Morris

**Title:** Discovering a Selective DHFR Inhibitor for Lymphatic Filariasis  
**Presenter:** Carissa Colfer  
**Faculty Sponsor:** Nina Goodey

**Title:** Limitations of Methods Used to Study Impacts of Deer in Urban and Suburban Settings  
**Presenter:** Josephine Dambeck  
**Faculty Sponsor:** Gregory Pope

**Title:** Impact of Site-Directed Tryptophan Mutagenesis at Active-Site Loop Residues on the Catalytic Activity of Mycobacterium Tuberculosis Indole-3-Glycerol Phosphate Synthase  
**Presenter:** Soma De Debnath  
**Faculty Sponsor:** Nina Goodey

**Title:** An Analysis of Efficiency and Reliability on Montclair State's Village/Transit Shuttle Route  
**Presenter:** Christopher Dixon  
**Faculty Sponsor:** Gregory Pope

**Title:** Brittle Star Recruitment in the Florida Keys Following the 2022 Urchin Mass Mortality Event  
**Presenter:** Christopher Eardley  
**Faculty Sponsor:** Colette Feehan

**Title:** Social Influence on Decision Making with Real Rewards  
**Presenter:** Nicolina Echevarria  
**Faculty Sponsor:** Michael Bixter

**Title:** Accountable AI in Finance: Ethical and Transparent AI Frameworks for Financial Decision-Making  
**Presenter:** Sheikh Md Faysal  
**Faculty Sponsor:** Eyyub Kibis

**Title:** Post- Adoption Contact Agreements in New Jersey and New York: Enforceability, Policy Reform, and the Role of Psychology in Legal Standards  
**Presenter:** Emily Fischer  
**Faculty Sponsor:** Thomas Loikith

**Title:** Using Gaming Interventions with Autistic Children in a Group Setting to Address Emotional Dysregulation  
**Presenter:** Laura Sofia Gamez  
**Faculty Sponsor:** Sarah Kelly  
**Co-Presenter(s):** Destiny Carrion, Brooke Robinson

**Title:** Translanguaging in Summative Assessments

**Presenter:** Sofia Andersen Garreffa

**Faculty Sponsor:** Alina Reznitskaya

**Title:** Optimization of Fast Protein Liquid Chromatography (FPLC) Parameters for the Purification of Ranavirus Major Capsid Protein (MCP)

**Presenter:** Priyansi Kiran Govani

**Faculty Sponsor:** Nina Goodey

**Title:** The Extent to Which a Cleaner Cremation Method Could Reduce Carbon Emissions in New Jersey

**Presenter:** Danielle Grossfeld

**Faculty Sponsor:** Gregory Pope

**Title:** Accuracy of Blood Pressure and Heart Rate Assessments in Patients with Possible Autonomic Dysfunction among Athletic Trainers

**Presenter:** Samantha Hagenbush

**Faculty Sponsor:** Luis Torres

**Title:** Calculating Convenience: Understanding Modal-Choice Practices of New York Metro Area Commuters

**Presenter:** Yazeed Haidaoui

**Faculty Sponsor:** Daniel Douglas

**Title:** Program Evaluation of Being with Babies

**Presenter:** Rosanna Hefter

**Faculty Sponsor:** Patricia McGaughey

**Co-Presenter(s):** Jenna DeRiggi, Brianna Hawxhurst

**Title:** Reliance on Artificial Intelligence (AI) when Making Decisions in Collaborative Human-AI Environments

**Presenter:** Hannah Hollow

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Jasmine Friedman

**Title:** Echoes of Tranquility: Reframing Contemporary Dance through Japanese Philosophy -Pedagogy, History, and Practice

**Presenter:** Yuki Ishiguro

**Faculty Sponsor:** Maxine Steinman

**Title:** Co-Creation of an Educational Public Health Initiative to Raise cCMV Awareness

**Presenter:** Laiba Ishtiaq

**Faculty Sponsor:** Maryrose McInerney

**Title:** Trauma, Psychoticism, and Somatization in College Students: The Moderating Role of Social Support

**Presenter:** Valentina Cano Jaramillo  
**Faculty Sponsor:** Adam Natoli  
**Co-Presenter(s):**

**Title:** Clean Lines, Safer Patients: Preventing CLABSI in Clinical Practice  
**Presenter:** Jinan Kaddour  
**Faculty Sponsor:** Marnie Weiss  
**Co-Presenter(s):** Joselin Falcon Castrillon, Carmelina Santiago, Jennifer Ferreira

**Title:** Evaluating the Impact of DDoS Attacks on Network Resilience and Baseline Metrics  
**Presenter:** Dorian Kouande  
**Faculty Sponsor:** Christopher Leberknight  
**Co-Presenter(s):** Fortunatus Ekennia, Aboubacar Sidick Meite

**Title:** Analysis of Helical Peptide Mimetic Compounds as Potential Inhibitors of Wuchereria Bancrofti DHFR  
**Presenter:** Salma Kwarteng  
**Faculty Sponsor:** Nina Goodey

**Title:** How Does Artificial Salinization Impact Soil pH?  
**Presenter:** Nicolina Lentine  
**Faculty Sponsor:** Nina Goodey

**Title:** Congressional Stock Trading, Insider Information, and the Crisis of Public Trust  
**Presenter:** Grace McGuckin  
**Faculty Sponsor:** Thomas Loikith

**Title:** The Role of Relationships in Alcohol Recovery  
**Presenter:** Elizabeth Moe  
**Faculty Sponsor:** Daniel Douglas

**Title:** Impostor Thoughts at Work: Examining the Relationship between Imposter Thoughts, Employee Well-Being, and Coworker Support  
**Presenter:** Nikitha Mohan  
**Faculty Sponsor:** Cheryl Gray

**Title:** County-Level Outliers in Risk-Adjusted Preterm Birth Among Young Mothers: Identifying Areas for Research and Urgent Intervention  
**Presenter:** Kananelo Mokati  
**Faculty Sponsor:** Patricia McGaughey

**Title:** Mutation-Driven Shift in the Rate-Limiting Step of M. Tuberculosis IGP Synthase Catalysis  
**Presenter:** Crystal Montero  
**Faculty Sponsor:** Nina Goodey

**Title:** Investigating the Functional Impact of an Active-Site Tryptophan Substitution in Mycobacterium tuberculosis Indole-3-Glycerol Phosphate Synthase

**Presenter:** Juan Parra Montes

**Faculty Sponsor:** Nina Goodey

**Title:** Thermal Lensing in the Magneto-Optical Elements of a Custom Vacuum-Compatible Faraday Rotator

**Presenter:** Caia Moonsammy

**Faculty Sponsor:** Rodica Martin

**Title:** A Preliminary Investigation of the Prevalence of Motor Speech Impairment within a Pediatric Outpatient Clinical Setting

**Presenter:** Madison Mulhall

**Faculty Sponsor:** Kate Nealon

**Co-Presenter(s):** Omayma Jabara

**Title:** Princess Hands: Handedness of Protagonists versus Antagonists in Disney's 'Princess' Animated Movies

**Presenter:** Alexis Narine

**Faculty Sponsor:** Ruth Propper

**Co-Presenter(s):** Suha Aman

**Title:** Legislative Support for Parents with Disabilities

**Presenter:** Tim Nee

**Faculty Sponsor:** Wendy Zeitlin

**Title:** The Magnitude of Maenads

**Presenter:** Olivia Nieves

**Faculty Sponsor:** Deborah Chatr Aryamontri

**Title:** The Role of Logic in Motivating In/Direct Proof: Analysis of Proof-Based Curriculum

**Presenter:** Emily Olson

**Faculty Sponsor:** Joseph DiNapoli

**Title:** Targeting Wuchereria bancrofti Dihydrofolate Reductase with Propargyl-Linked Antifolates: Drug Target Validation and Rate-Limiting Step Determination in Lymphatic Filariasis

**Presenter:** David Otu-Aboagye

**Faculty Sponsor:** Nina Goodey

**Title:** Data Breachers: Youth Counterstories in Quantitative Education Research

**Presenter:** Juan Ouvina

**Faculty Sponsor:** Wendy Castillo

**Co-Presenter(s):** Marielyn Hidalgo

**Title:** Pragmatic Inference Chain (PIC) for Adverse Drug Event Detection from Clinical Text

**Presenter:** Victor Owino

**Faculty Sponsor:** Hao Liu

**Title:** Generous or Punitive: How Welfare Reform Produces Stigma

**Presenter:** Ava Perez

**Faculty Sponsor:** Thomas Loikith

**Title:** Can an LLM Reproduce Personal Texting Tone?

**Presenter:** Camila Calvino Pintado

**Faculty Sponsor:** Anna Feldman

**Title:** The Multilingual Euphemism Benchmark: Datasets and Baselines for Pragmatic Language Understanding

**Presenter:** Whitney Poh

**Faculty Sponsor:** Anna Feldman

**Title:** Multiplicative Reasoning Through Dynamic Measurement

**Presenter:** Amanda Provost

**Faculty Sponsor:** Nicole Panorkou

**Co-Presenter(s):** Ariel Bonneau-Rodriguez, Michael Frimpong, Toheeb Olatunji

**Title:** Modeling L2 English Learning by Chinese L1 Speakers Using Large Language Models

**Presenter:** Ajay Punia

**Faculty Sponsor:** Libby Barak

**Title:** Empirical Comparison of Nmap and Nessus Vulnerability Scanners in IT and ICS Environments: Quantitative Evidence of Complementarity

**Presenter:** Samuel Quansah

**Faculty Sponsor:** Daeyoung Kim

**Title:** Token Optimizer: A Lightweight Token Reduction Technique for LLM-Based Code Generation

**Presenter:** Varsha Govindan Ramachandran

**Faculty Sponsor:** Debapriya Hazra

**Co-Presenter(s):** Benita Magdalene Kingsley Prince

**Title:** Rumination and Emotional Picture Processing in Visual Working Memory

**Presenter:** Juli Ritorto

**Faculty Sponsor:** Akina Umemoto

**Title:** Feeling the Power: Navigating the Impact Power has on Expressive Suppression in Relationships

**Presenter:** Emily Robinson

**Faculty Sponsor:** Ana DiGiovanni

**Co-Presenter(s):** Caroline Boyle

**Title:** Pressure injuries on a Cardiac Telemetry Unit

**Presenter:** Shanise Rose

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Dema Abuhadba, Elyssa Mae Veluz

**Title:** Rethinking the Best Interests Standard: A Legal and Psychological Analysis of Termination of Parental Rights

**Presenter:** Ryan Rosenthal

**Faculty Sponsor:** Thomas Loikith

**Title:** Theory of Mind as a Predictor of Social Communication in Autistic Youth Beyond Cognitive Ability

**Presenter:** Ginie Christy Rubia

**Faculty Sponsor:** Erin Kang

**Title:** After Snyder v. United States: What Now?

**Presenter:** Haide Schaefer

**Faculty Sponsor:** Thomas Loikith

**Title:** From Learners to Leaders: Informal Learning and Leadership Emergence in the Workplace

**Presenter:** Ami Shah

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Adriana Reyes

**Title:** Direction Giving Accuracy in Real-Life and Virtual Reality Environments for Children Ages 6 to 10

**Presenter:** Sakshi Shah

**Faculty Sponsor:** Laura Lakusta

**Co-Presenter(s):** Kaitlyn Catala

**Title:** By Students for Students: A Quality Improvement Initiative to Increase Awareness and Use of University Health Center Services

**Presenter:** Norah Shaji

**Faculty Sponsor:** Patricia McGaughey

**Co-Presenter(s):** Julia Bil, Rawan Baroud, Maria Reyes Vasquez

**Title:** Algorithmic Amplification and Real-World Decisions

**Presenter:** Jared Shaughnessy

**Faculty Sponsor:** Pevitr Bansal

**Title:** Developing A New Measure of Job Role Ambiguity

**Presenter:** Md Allama Ikbal Sijan

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Emily Majowicz

**Title:** Making Museum Content More Inclusive: A Bilingual Approach to Accessibility

**Presenter:** Victoria Sosa

**Faculty Sponsor:** Maria Jose García Vizcaíno

**Title:** Relationship between The Menstrual Cycle and ACL Injury Rates

**Presenter:** Ava Stahl

**Faculty Sponsor:** Fredrick Gardin

**Title:** CPS Immunity and Responsibility in Child Welfare

**Presenter:** Kyra Tentle

**Faculty Sponsor:** Thomas Loikith

**Title:** Reducing Falls in Heart Failure Patients Through Nursing Interventions

**Presenter:** Nidhi Thakor

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Farwa Ali, Isabel Polo

**Title:** What are the Effects of Thoracic Spine Mobility on Scapular Dyskinesia in Overhead Athletes?

**Presenter:** Mariah Villanueva

**Faculty Sponsor:** Frederick Gardin

**Co-Presenter(s):**

**Title:** Developing a New Measure of Well-being Overtime and Relating it to Mental Health

**Presenter:** Lailah Watson

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Rozhan Shafiezhadeh, Sara Castiblanco

**Title:** From Pixels to Policy: LLM-Controlled DeepFool Attacks Balancing Stealth and Efficiency via Grad-CAM Spatial Constraints

**Presenter:** Roshan Kumar Yadav

**Faculty Sponsor:** Bharath Kumar Samanthula

**Title:** Endogenous Estrogen Levels Moderate the Effects of Transcranial Direct Current Stimulation on Working Memory

**Presenter:** Eda Yavuz

**Faculty Sponsor:** Alexandra Gaynor

**Title:** By Benefit vs. By Category

**Presenter:** Ruby Zumba

**Faculty Sponsor:** Gabriel Gonzales

**Title:** Effects of Chronic Parental Zebrafish (*Danio rerio*) Exposure to Dietary PFOA On Offspring

**Presenter:** Shelby Zuromski

**Faculty Sponsor:** Alexis Khursigara

### **Poster Session 3: 12:00 - 1:00 PM**

*(Alphabetical by Presenter's Last Name)*

**Title:** Investigation of the Risks Associated with Outsourced Computer Vulnerability Data from Generally Trusted Sources

**Presenter:** Emyll Almonte

**Faculty Sponsor:** Dr. Stefan Robila

**Title:** The Context of Living with Spinal Cord Injury: Identifying Mechanisms Connecting Environmental Factors to Outcomes Using Geographically-Explicit Ecological Momentary Assessment (GEMA)

**Presenter:** Suha Aman

**Faculty Sponsor:** Ruth Propper

**Title:** Large Language Colors: Variation and Misalignment in LLM Color Naming

**Presenter:** Jasper Andrew

**Faculty Sponsor:** Anna Feldman

**Title:** VulnSieve: A Structured Knowledge Preprocessing Engine for AgenticAI Penetration Testing

**Presenter:** Ramsagar Varickamackal Asokkumar

**Faculty Sponsor:** Ioannis Agadkos

**Co-Presenter(s):** Stephen Kwabena Darko

**Title:** Rooted in Health

**Presenter:** Sofia Avila

**Faculty Sponsor:** Gregory Pope

**Title:** Architectural Differences in AI Webpage Rendering: A comparative Clocking study

**Presenter:** Krishna Teja Bandla

**Faculty Sponsor:** Ioannis Agadkos

**Co-Presenter(s):**

**Title:** Etruscan Tombs and Romanization

**Presenter:** Jonathan Beddow

**Faculty Sponsor:** Deborah Chatr Aryamontri

**Title:** A New 0.5 K Cryostat in the Montclair Experimental Nuclear Physics Lab for Dynamic-Nuclear-Polarizable Scintillators

**Presenter:** Juan Berru

**Faculty Sponsor:** Kent Leung

**Co-Presenter(s):** Miguel Reyes, Nicholas Distefano

**Title:** Social Influence on Impatient Decision Making

**Presenter:** Lexia Blake

**Faculty Sponsor:** Michael Bixter

**Title:** Analyzing Multi-Factor Authentication Through Cryptographic Security Properties

**Presenter:** Krishna Bodige

**Faculty Sponsor:** Stefan Robila

**Co-Presenter(s):** Yousef Tahboub, Ryan Tipping

**Title:** Embodied Choreo-graphing of the Polar Coordinate System

**Presenter:** Ariel Bonneau-Rodriguez

**Faculty Sponsor:** Steven Greenstein

**Co-Presenter(s):** Asja Alić

**Title:** Chiron: A (Co)Operative Automated Reasoning System for Honeypot Traffic Monitoring

**Presenter:** Darryl Carpenter

**Faculty Sponsor:** Ioannis Agadakos

**Title:** Cognitive Flexibility and Anxiety Among Neurodiverse Youth: Evidence from an Art-Based Executive Function Task

**Presenter:** Angela Castillo

**Faculty Sponsor:** Erin Kang

**Title:** Parent's Input on Learning the Complex Language of Physical Support

**Presenter:** Alexia Cervantes

**Faculty Sponsor:** Laura Lakusta

**Title:** Creating a "Good Person": Netiquette and Instagram

**Presenter:** Melissa Danai-Noldner

**Faculty Sponsor:** Daniel Douglas

**Title:** Eyewitness Testimony and Trauma in the Law

**Presenter:** Zoe Dastagir

**Faculty Sponsor:** Thomas Loikith

**Title:** When "It's Just Business" Turns Personal: How Organizational Decisions Shape Prosocial Behavior

**Presenter:** Alexis Davis

**Faculty Sponsor:** Manuel Gonzalez

**Co-Presenter(s):** Wesley Johnson, Afsin Rehman

**Title:** Adult Age and the Evaluation of Moral Judgment

**Presenter:** Gianna DeRosa-Norena

**Faculty Sponsor:** Michael Bixter

**Title:** Adaptive Early-Attack Detection and Mitigation in Network Traffic Using Feature-Based Machine Learning

**Presenter:** Joana Dervishaj

**Faculty Sponsor:** Christopher Leberknight  
**Co-Presenter(s):** Vosaswini Uppalapati

**Title:** Gun vs Human: Is the Problem with Gun Violence a Human Issue or a Gun Issue?

**Presenter:** Aissatou Diallo

**Faculty Sponsor:** Thomas Loikith

**Title:** Evolution in Glass: Technical Advancement and Artistic Innovation in a Roman Mouse-Shaped Glass Flask

**Presenter:** Jayden Diaz

**Faculty Sponsor:** Deborah Chatr Aryamontri

**Title:** Population Analysis of Sciurid (Sciuridae) Species on Montclair State University Campus

**Presenter:** Dylan DiBella

**Faculty Sponsor:** Lisa Hazard

**Co-Presenter(s):** Alejandra Leal, Sama Newir, Nicole Watson

**Title:** Metal Speciation and Microbial Communities Vary through Depth in Barren New Jersey Brownfield Soil

**Presenter:** Eshariah Dyson

**Faculty Sponsor:** Nina Goodey

**Title:** An Echo Chamber of Shared Feelings: How Co-Rumination and Shared Reality are Associated Across Situational Contexts

**Presenter:** Nicolina Echevarria

**Faculty Sponsor:** Ana DiGiovanni

**Co-Presenter(s):** Kellan Ruf

**Title:** Fall Risk Prevention

**Presenter:** Oluwatoyin Elumelu

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Eunice Hur, Johanna Pena Castillo, Moriba Turay

**Title:** A Methodological Reflection from a Mixed-Method Evaluation: Are Interviews Always Necessary to Evaluate Conceptual Understanding?

**Presenter:** Luisa Engeldinger

**Faculty Sponsor:** Miriam Linver

**Co-Presenter(s):** Nicole Sochaczewski

**Title:** Investigating the Presence of Turtles in Montclair State University's Ponds

**Presenter:** Natalie Epstein

**Faculty Sponsor:** Lisa Hazard

**Co-Presenter(s):** Aubrey Smith, Kelly Witters, Timothy Zubov

**Title:** Neural Correlates of Subjective Word-Finding Impairment in Late-Stage Multiple Sclerosis

**Presenter:** Esma Ertural

**Faculty Sponsor:** Joshua Sandry

**Title:** Viscosity and Temperature Effects on the Catalytic Activity of IGPS from the Thermophilic Bacteria, *Thermatoga Maritima*

**Presenter:** Alexandra Everson

**Faculty Sponsor:** Nina Goodey

**Title:** Development of Rapid Field-Testing Kit for Detection of Ranavirus and Other Viral Aquatic Pathogens

**Presenter:** Sadaf Fatima

**Faculty Sponsor:** Nina Goodey

**Co-Presenter(s):**

**Title:** Divine Love and Symbolic Motifs: Selene and Endymion's Sarcophagus

**Presenter:** Sabrina Ferreira

**Faculty Sponsor:** Deborah Chatr Aryamontri

**Title:** Comparing Human and AI Social Influence on Decision Making

**Presenter:** Jasmine Friedman

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Courtney Burlingame

**Title:** Individual Recognition: Do Horned Passalus, *Odontotanius Disjunctus*, Display Individual Discrimination of Familiar and Unfamiliar Conspecifics through Changes in their Behavior?

**Presenter:** Sabrina Galloza

**Faculty Sponsor:** Scott Kight

**Title:** Parent Employment Status Moderates the Link Between Child Emotion Dysregulation and Parent Quality of Life in Neurodiverse Families

**Presenter:** Haylee Garcia

**Faculty Sponsor:** Erin Kang

**Title:** A Qualitative Study of Treatment Trajectories of Pregnant Women Who Use Opioids

**Presenter:** Kaylee Garcia

**Faculty Sponsor:** Natascia Boeri

**Title:** Implementation of a Multifactorial Fall Prevention Bundle in a Medical-Surgical Unit

**Presenter:** Jasly Garriga

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Jessica Lopez Calle, Ammy Gomez, Katherine Peralta

**Title:** Should the Death Penalty in the United States Be Abolished as ‘Cruel and Unusual Punishment’ in Violation of the Eighth Amendment?

**Presenter:** Brittany Gerardo

**Faculty Sponsor:** Thomas Loikith

**Title:** Using Self-Paced Reading to Examine Language Comprehension in Arabic Learners of English

**Presenter:** Kevin Grealis

**Faculty Sponsor:** Lauren Covey

**Title:** Sediment Magnetic Susceptibility and Grain Size Across the MIS 32–31 Transition at IODP Site U1623

**Presenter:** Kit Haig

**Faculty Sponsor:** Stefanie Brachfeld

**Title:** Population Dynamics of Horseshoe Crabs in the Delaware Bay, and the Anthropogenic Forces that Influence Them

**Presenter:** Eli Horgan

**Faculty Sponsor:** Gregory Pope

**Title:** Artivism in the Shadow of the State: Rethinking Transitional Justice in Brazil

**Presenter:** Suleina Houston

**Faculty Sponsor:** Arnaud Kurze

**Title:** Potential Stressors of Relationship Issues in Married Parents of Autistic Children: A Qualitative Analyses

**Presenter:** Aeshna Ware Huff

**Faculty Sponsor:** Erin Kang

**Title:** Agreement and Discrepancy in Parent and Child Reports of Children’s Video Game Use

**Presenter:** Orianny Medina Jimenez

**Faculty Sponsor:** Yingying Yang

**Co-Presenter(s):** Joaquin Quezada

**Title:** Catheter-Associated Urinary Tract Infections: Prevention Initiative

**Presenter:** Hannah Kim

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Megan Ponce, Dennis Aponte, Fati Ibrahim

**Title:** Mind over Metaphor: Monolingual and Bilingual Hemispheric Processing

**Presenter:** Rita de Leeuw

**Faculty Sponsor:** Lauren Covey

**Title:** A Reproducible SDN Testbed for Measuring Topology- Dependent Network Resilience Under Link Failure Using Automated Mininet-Ryu Experiments

**Presenter:** Makada Lewis

**Faculty Sponsor:** Christopher Leberknight  
**Co-Presenter(s):** Priscilla Ramos, Raga Rishitha Dutta

**Title:** Social Communication in Autism Spectrum Disorder (ASD) Population  
**Presenter:** Olivia Loiacono  
**Faculty Sponsor:** Ruth Propper

**Title:** Investigating the Effects of E47D Mutation on Indole-3-Glycerol Phosphate Synthase from *Thermotoga Maritima*  
**Presenter:** Collins Maina  
**Faculty Sponsor:** Nina Goodey

**Title:** Effect of Copper Products on the Water Quality of Freshwater  
**Presenter:** Joseph Marusic  
**Faculty Sponsor:** Gregory Pope

**Title:** Managerial Perceptions of Boredom in Meetings  
**Presenter:** Livia Mazus  
**Faculty Sponsor:** Manuel Gonzalez

**Title:** Mathematical Modeling in the Big Ideas Blue Book  
**Presenter:** Gabriella Migliore  
**Faculty Sponsor:** Joseph DiNapoli

**Title:** Examining Minimum Parking Requirement and Parking Lot Utilization in Woodbridge Township, New Jersey  
**Presenter:** Michael Misciagna  
**Faculty Sponsor:** Gregory Pope

**Title:** Dinallo, Graynor, MrBoss, and Westerlin: Four Novel Arthrobacter Phage  
**Presenter:** Joudi Mohamed  
**Faculty Sponsor:** Kirsten Monsen-collar  
**Co-Presenter(s):** Betchina Celion, Manna Elessawy

**Title:** Confirmatory Factor Analysis on Multidimensional Coworker Support Scale (MCSS)  
**Presenter:** Nikitha Mohan  
**Faculty Sponsor:** Cheryl Gray

**Title:** Virtual Reality as a Tool For Understanding Spatial Ability  
**Presenter:** Keren Morales  
**Faculty Sponsor:** Yingying Yang  
**Co-Presenter(s):** Jezabel Kivelier, Madison Lau, Esmerlin Nunez

**Title:** To Be or Not To Be: A Linguistic Analysis of Comedic and Dramatic Musicals  
**Presenter:** Samuel Morell  
**Faculty Sponsor:** Libby Barak

**Title:** Theta Transcranial Alternating Current Stimulation to Improve Functional Communication in Post-Stroke Aphasia

**Presenter:** Madison Mulhall

**Faculty Sponsor:** Kate Nealon

**Co-Presenter(s):** Omayma Jabara

**Title:** Multimodal Deep Learning for Predicting Adverse Transfusion Reactions

**Presenter:** Asongwe Mutah

**Faculty Sponsor:** Hao Liu

**Title:** Pack Hunter or Bone Crusher: Mandibular Shape Variation Within the Borophagine Canids and Implications for Predatory Behavior

**Presenter:** Benjamin Neavear

**Faculty Sponsor:** Robert Meredith

**Title:** Improving Statistics on Inpatient Falls with Injury

**Presenter:** Lucia Nguyen

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Julia Bialek, Cheshtaa Khera, Brianna Hawxhurst

**Title:** Enzyme Kinetics Using Cytochrome P450

**Presenter:** Rayshaun Nolan

**Faculty Sponsor:** Jaclyn Catalano

**Title:** Developing and Benchmarking a Reproducible Python Workflow for Deploying Machine-Ready MLIPs via the Garden Framework on Globus Compute

**Presenter:** Isyaku Abdullahi Odoguje

**Faculty Sponsor:** Stefan Robila

**Title:** Hospital Acquired Pressure Injuries

**Presenter:** Tiffany Osti

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Alexa Ramos, Amanda Penalo, Jasper Caylao

**Title:** Bias in the Bias Detector: Do AI Models Show Bias in News Analysis?

**Presenter:** Ayushi Patel

**Faculty Sponsor:** Stefan Robila

**Co-Presenter(s):**

**Title:** The Impact of Cultural Entropy on Happiness

**Presenter:** Pankti Mihirkumar Patel

**Faculty Sponsor:** David Axelrod

**Title:** Spontaneous Degradation Kinetics of 5,10-Methenyltetrahydrofolate in Buffered Aqueous Solution

**Presenter:** Saanchal Patel

**Faculty Sponsor:** Johannes Schelvis

**Title:** Comparative Analysis of Code Quality and Efficiency: AI-Generated vs Human-Written Code

**Presenter:** Jay Patel

**Faculty Sponsor:** Christopher Leberknight

**Title:** An Analysis of Potential English Bias in Multiword Expression Detection

**Presenter:** Whitney Poh

**Faculty Sponsor:** Anna Feldman

**Title:** Analyzing the Climate Penalty: Ozone Concentration Trends and Weather Patterns in New Jersey Using Machine Learning (2017–2024)

**Presenter:** Paula Perez Portero

**Faculty Sponsor:** Figen Suchanek

**Title:** Paid Maternity Leave and Breastfeeding Initiation Among WIC Participants: PRAMS Data Analysis

**Presenter:** Demi Ramos-Polanco

**Faculty Sponsor:** Lauren Dinour

**Title:** Beyond the Courtroom: Youth, Memory, and Justice Amid Systemic Harm

**Presenter:** Julia Ranski

**Faculty Sponsor:** Arnaud Kurze

**Title:** The Sculpture of Serapis and Cerberus: Religious Manipulation for Political Gain

**Presenter:** Tyler Roberto

**Faculty Sponsor:** Deborah Chatr Aryamontri

**Title:** Reducing Falls in Postoperative Gastrointestinal Patients

**Presenter:** Jennifer Rodriguez

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Brooke Robinson, Destiny Carrion, Teo Piedra Alvarez

**Title:** Prevent the Pressure: QI Initiative for Hospital-Acquired Pressure Injury Prevention

**Presenter:** Norah Shaji

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Victor Delgado, Sarah Abouchakra

**Title:** Does Urban Forestry Improve Quality of Life for Low-Income Communities with Higher Demographics from Marginalized Communities?

**Presenter:** Izaiah Solano-Nina

**Faculty Sponsor:** Lisa Johnson

**Title:** Substitution of Phenanthroline via a Cross Coupling Mechanism

**Presenter:** Elizabeth Stopa

**Faculty Sponsor:** Nathanael Hirscher

**Title:** Robotic Exoskeleton Rehabilitation as a Means of Improving Mobility in Stroke Survivors

**Presenter:** Amelia Szewczyk

**Faculty Sponsor:** Ruth Propper

**Title:** Challenges in Japanese Euphemism Classification: An Analysis of Pretrained Japanese and Multilingual Models

**Presenter:** Noriko Takahashi

**Faculty Sponsor:** Anna Feldman

**Title:** Work Outcomes During Perimenopause Across Work Modalities

**Presenter:** Sarvenaz Taridashti

**Faculty Sponsor:** Manuel Gonzalez

**Title:** Analyzing Bias in Large Language Models Through Structured Questioning and User Identity

**Presenter:** Kamran Uddin

**Faculty Sponsor:** Ioannis Agadakos

**Title:** CAUTI Rates and Interventions: a Quality Improvement study

**Presenter:** Maria Reyes Vasquez

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Daniella Zamora, Cornelia Mansell

**Title:** Words and Phrases That Matter: A Corpus Analysis of Vocabulary and Phraseological Coverage in Myanmar's High School English Textbooks

**Presenter:** Kaung Hla Zan

**Faculty Sponsor:** Larissa Goulart

**Title:** Comparative Survey of Terrestrial and Diurnal Vertebrate Wildlife On and Off the Montclair State University Campus

**Presenter:** Noah Zinn

**Faculty Sponsor:** Lisa Hazard

**Co-Presenter(s):** Ishaque Arthur, Jacob Rosario, Ronnie Abudaqa, Ryan Bankuti

**Title:** Ecological Implications of Observed Bullfrog Tadpole Growth and Distribution in Montclair State University Ponds

**Presenter:** Yasmin Zughbi

**Faculty Sponsor:** Lisa Hazard

**Co-Presenter(s):** Lisa DeCristofaro, Melany Urena, Michelle Itoua



## Poster Session 4: 1:15 - 2:15 PM

*(Alphabetical by Presenter's Last Name)*

**Title:** Characterizing Zoonotic and Foodborne Pathogens Associated with Wild Mammals Eaten in Madagascar

**Presenter:** Ohene Adomako

**Faculty Sponsor:** Cortni Borgerson

**Title:** Recommendations from Child Death Review Teams: An Update of a US Study Concerning Maltreatment Fatalities and Social Service Delivery, Two Decades Later

**Presenter:** JoseCarlos Aguilar

**Faculty Sponsor:** Emily Douglas

**Co-Presenter(s):** Elikplim Cudjoe, Michael Hutcheon, Leticia Sanchez

**Title:** Histopathological Comparison of Normal and Malignant Breast Tissue Using H&E Staining

**Presenter:** Reem Ahmad

**Faculty Sponsor:** Reginald Halaby

**Co-Presenter(s):** Samantha Bell, Colleen Moran, Melissa Tabakci

**Title:** Sector-Aware Vulnerability Analysis Using Product and Vendor Mapping of NVD Data

**Presenter:** Usman Ahmed

**Faculty Sponsor:** Stefan Robila

**Title:** Examining Descriptive Statistics Tasks in Introductory Statistics Textbooks

**Presenter:** Asja Alic

**Faculty Sponsor:** Nina Bailey

**Title:** The Fallibility of Memory: Evaluating Eyewitness Testimony and Its Limits

**Presenter:** Cathy Almendarez

**Faculty Sponsor:** Thomas Loikith

**Co-Presenter(s):**

**Title:** Conditional Aid, Unconditional Ally: The Legal and Political Failures of the Leahy Laws in the U.S.-Israel Relationship

**Presenter:** Jenine Alsouqi

**Faculty Sponsor:** Thomas Loikith

**Title:** TikToks and High School Students' Statistical Literacy: An Exploratory Case Study

**Presenter:** Grace Pomaah Amoako

**Faculty Sponsor:** Nina Bailey

**Title:** Developing a Place-Based Environmental Science Curriculum to Teach Urban Pollution and Watershed Systems Through Community Cleanup in Ridgefield, New Jersey

**Presenter:** MaryAnne Anderson  
**Faculty Sponsor:** Gregory Pope

**Title:** From Cash to Constitution: The Legal Imperative for Bail Reform  
**Presenter:** Angelica Androwis  
**Faculty Sponsor:** Thomas Loikith

**Title:** Adult ADHD: Do Extant Interventions Enhance Quality of Life?  
**Presenter:** Jonathan Applebaum  
**Faculty Sponsor:** Elizabeth Chan  
**Co-Presenter(s):** Joselyn Lopez Moran, Zakiyah Chowdhary, Vanessa Huang, Amara Leyton, Madison Monds

**Title:** A Security Analysis of Agentic Communication Protocols  
**Presenter:** Ron Arevalo  
**Faculty Sponsor:** Ioannis Agadakos

**Title:** Beyond the 90/10 Rule: How German Instructors Negotiate the Use of German, English, Anglicisms, and Cognates in Classroom Speech  
**Presenter:** Sidney Berger  
**Faculty Sponsor:** Pascale LaFountain

**Title:** Adaptive Reinforcement Learning for Resilient Routing in Software-Defined Network  
**Presenter:** Sadia Bibi  
**Faculty Sponsor:** Christopher Leberknight  
**Co-Presenter(s):** Alekhya Kummitha , Lakshmi Deepthi Reddy ReddyBattula, Madhu Sudhan Reddy Ramireddy

**Title:** Improving Hand Hygiene to Enhance Patient Safety  
**Presenter:** Laura Machado Bicalho  
**Faculty Sponsor:** Marnie Weiss  
**Co-Presenter(s):** Kayla Ouellette, Michael Guzman, Nadira Banegas

**Title:** Examination of IQ and Social Skills Relationship, Sex and Neurodevelopment as Moderators  
**Presenter:** Amy Bishay  
**Faculty Sponsor:** Erin Kang

**Title:** From Introduction to Reinforcement: How Cognitive Load and Realistic Contexts in Pearson's Introductory Statistics Textbook Shape Student Learning  
**Presenter:** Ariel Bonneau-Rodriguez  
**Faculty Sponsor:** Joseph DiNapoli

**Title:** Government Education Expenditure and the SES–Achievement Gap: A Cross-National Slopes-as-Outcomes Analysis  
**Presenter:** Teodora Brnovic

**Faculty Sponsor:** Daniel Douglas

**Title:** Bringing Back Belonging: Do Student and Faculty Perceptions of Student Belonging Align in STEM?

**Presenter:** Noelani Brown

**Faculty Sponsor:** Nina Bailey

**Title:** Autonomous Sync: A Real-Time Sensor-Based Event Detection and Data Protection System

**Presenter:** Darryl Carpenter

**Faculty Sponsor:** Raina Samuel

**Co-Presenter(s):** Kayla Garcia, Aboubacar Cisse

**Title:** Mental Fatigue in Multiple Sclerosis: A Comparison of Cognitive Performance and Fatigue in MS and Healthy Controls

**Presenter:** Karen Chan

**Faculty Sponsor:** Ruth Propper

**Title:** Comparative Analysis of DDoS Mitigation Methods for Network Stability and Resilience

**Presenter:** Jessica Cuevas

**Faculty Sponsor:** Christopher Leberknight

**Co-Presenter(s):** Karl Arum, Vamshi Krishna Deme, Tejasvi Ellandula

**Title:** Assessing Decadal Changes in Eelgrass Communities from Barnegat Bay, NJ

**Presenter:** Janelle DelCastillo

**Faculty Sponsor:** Paul Bologna

**Title:** Evaluating Biospheric and Altruistic Framing in Plastic Pollution

**Presenter:** Nicolina Echevarria

**Faculty Sponsor:** Nicole Conklin

**Title:** Improving DDoS Attack Timeline Reconstruction Accuracy through Multi-Source Forensic Correlation

**Presenter:** Nabila Emanuel

**Faculty Sponsor:** Christopher Leberknight

**Co-Presenter(s):** Ahmed Mohamed, Lokeswari Devi Avudoddi, Abhishek Kaithapalli

**Title:** A GIS-Based Pilot GDSS for Siting Data Center District Energy Megagrids

**Presenter:** Rolih Ferdinand

**Faculty Sponsor:** Mark Chopping

**Title:** Art as Resistance: Youth Activism and LGBTQ+ Advocacy Across Colonial Legal Legacies

**Presenter:** Sabrina Ferreira

**Faculty Sponsor:** Arnaud Kurze

**Title:** Remittances and Resilience: Haitian Migrant Networks in New Jersey and Quebec and their Impact on Socioeconomic Development in Haiti (2018-2023)

**Presenter:** Rene Fleurima

**Faculty Sponsor:** Arnaud Kurze

**Title:** Addressing Gaps in Fall Prevention: A Quality Improvement Evaluation of Staff Compliance

**Presenter:** Laura Sofia Gamez

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Sandra Florim Da Silva, Clarissa Castro Rivera

**Title:** Intersecting Inequalities: Race, Poverty, and Cultural Practices in the Disproportionality of Marginalized Communities in Child Welfare

**Presenter:** Ashley Hines Gonzalez

**Faculty Sponsor:** Thomas Loikith

**Title:** Examining the Influence of Women's Empowerment on Child Nutrition and Immunization: Insights from the 2019 India National and Family Health Survey (NFHS-5)

**Presenter:** Lucia Grattone

**Faculty Sponsor:** Sangeeta Parashar

**Title:** Cross Cultural Comparison of Breakfast Consumption and Academic Performance Among University Students from India and the United States

**Presenter:** Samantha Hallett

**Faculty Sponsor:** Charles Feldman

**Co-Presenter(s):** Alyssa Harris, Islam Mnir Hassan

**Title:** A Data Mining Approach to Integrating Institutional and Sustainability Indicators for Performance Benchmarking Across Higher Education Institutions in the U.S.

**Presenter:** Klavdiya Hammond

**Faculty Sponsor:** Meghann Smith

**Title:** Evaluating the Success of Giant Tortoise Conservation in the Galapagos

**Presenter:** Julia Harrison

**Faculty Sponsor:** Gregory Pope

**Title:** Impacts of Bedside Shift Reporting

**Presenter:** Rosanna Hefter

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Jenna DeRiggi, Edriany Henriquez

**Title:** Breastfeeding Information Sources Among the New Jersey Maternal Population: Insights from NJ PRAMS, 2016-2022

**Presenter:** Yaire Hernandez

**Faculty Sponsor:** Melanie Shefchik

**Title:** AI-Assisted Interview Format and Job Pursuit Intentions

**Presenter:** Pallavi Honkanadavar

**Faculty Sponsor:** Michael Bixter

**Title:** Facets of Overcontrol and Emotion Dysregulation Predict Anxiety in an Autism-Enriched Sample of Youth

**Presenter:** Suleina Houston

**Faculty Sponsor:** Erin Kang

**Title:** Eating Disorders, Dysphagia, and Speech-Language Pathology

**Presenter:** Kimberly Hughes

**Faculty Sponsor:** Robyn Becker

**Title:** From Risk to Prevention: Utilizing Cause-and-Effect Analysis and Bed Alarms to Reduce Falls in Cardiac Patients

**Presenter:** Mikayla Jernigan

**Faculty Sponsor:** Marnie Weiss

**Co-Presenter(s):** Chiara Schwartz, Alexandra Mendillo, Judy Paul

**Title:** Undergraduate Students' Attitudes and Behaviors towards their Food Waste and Consumption: Qualitative Study

**Presenter:** Rosemarie Kearns

**Faculty Sponsor:** Charles Feldman

**Co-Presenter(s):** Valerie Colangelo and Sophia Giorgini

**Title:** Reward and Effort Processes Related to Depression

**Presenter:** Bridgit Kelly

**Faculty Sponsor:** Akina Umemoto

**Co-Presenter(s):** Courtney Burlingame

**Title:** Lei ha una sigaretta? Surface Morphology or Social Meaning? Evaluating LLM Register Competence in Italian

**Presenter:** Vincent Longo

**Faculty Sponsor:** Anna Feldman

**Title:** Civil Society Organizations in Climate Adaptation: Multi-Stage Case Selection for Studying Gender-Sensitive Human Mobility in Sub-Saharan African NAPs

**Presenter:** Stuart Longordo

**Faculty Sponsor:** Arnaud Kurze

**Title:** Measuring Satisfaction in Daily Activities

**Presenter:** Emily Majowicz

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Adriana Reyes

**Title:** Bridging the Gap: Integrating Trauma-Informed Principles into Criminal Responsibility, Sentencing, and Rehabilitation

**Presenter:** Maurice Mansaray

**Faculty Sponsor:** Thomas Loikith

**Title:** The Promise of Digital Mental Health Interventions: What do College Students Think about using an AI-chatbot for Mental Wellness?

**Presenter:** Ritika Merai

**Faculty Sponsor:** Jazmin Reyes-Portillo

**Co-Presenter(s):** Mia Cyler

**Title:** Does Rumination Influence Negative Picture Processing in Visual Working Memory?: A Preliminary Electrophysiological Study

**Presenter:** Wendy Moise

**Faculty Sponsor:** Akina Umemoto

**Co-Presenter(s):** Arianna Gonzalez, Juli Ritorto, Kailynn Arias, Amelia Szewczyk, Esma Ertural, Aliya Kadyrbekova, Beatriz Machado Santiago

**Title:** Physiological Signals-based Human-Emotion Analysis for Intelligent Machine Perception

**Presenter:** Theodore Morra

**Faculty Sponsor:** Rui Li

**Title:** Electrochemical Reduction of Nitrate to Ammonia

**Presenter:** Abdullah Mustapha

**Faculty Sponsor:** Wanlu Li

**Title:** Teachers' Motivation: A Scoping Review from 2015-2025

**Presenter:** Rebecca Myers

**Faculty Sponsor:** Helenrose Fives

**Co-Presenter(s):** Gabriella Macri

**Title:** Evaluation of the Advanced Encryption Standard's Modes of Operation: A Security and Performance Study

**Presenter:** Isyaku Abdullahi Odoguje

**Faculty Sponsor:** Stefan Robila

**Title:** Into the Unknown: Legal and Psychological Challenges Faced by Child Migrants in the United States

**Presenter:** Karen Palaguachi

**Faculty Sponsor:** Thomas Loikith

**Title:** Video-Based Biomechanical Injury Risk Detection Using Pose Estimation on NFL Combine Footage

**Presenter:** Mikko Palis

**Faculty Sponsor:** Ioannis Agadakos

**Title:** “It's love and acceptance for my child, regardless of [disability].”: A Black Parent’s Love

**Presenter:** Chrishay Pearce

**Faculty Sponsor:** Pearl Stewart

**Title:** Work-Related Stress Effects on Early Childhood Educator Career Trajectory

**Presenter:** Dulce Perez

**Faculty Sponsor:** Daniel Douglas

**Title:** Classical vs. Post-Quantum Cryptography: A Performance and Implementation Comparison

**Presenter:** Faith Puppala

**Faculty Sponsor:** Stefan Robila

**Co-Presenter(s):** Allison Buckingham

**Title:** Perceived Quality of Life and Sustainability Correlation

**Presenter:** Leenah Ramos

**Faculty Sponsor:** Gregory Pope

**Title:** Applying Mycoremediation Techniques to "Terra Preta" in Copper Contaminated Soils

**Presenter:** Zepheniah Ramos

**Faculty Sponsor:** Matthew Schuler

**Title:** Synthesis and Characterization of IGPS Substrate Analogs

**Presenter:** Genesis Renderos

**Faculty Sponsor:** David Konas

**Co-Presenter(s) :**Adriana Villamor

**Title:** Creating Auxiliary Data for Open Set Recognition Problems Using Data Augmentations

**Presenter:** Julia Rodano

**Faculty Sponsor:** Katherine Herbert-Berger

**Title:** Black Swan Crisis Preparedness for SMEs

**Presenter:** Keilani Rodriguez

**Faculty Sponsor:** Yuanqing Li

**Title:** Estimating Tree Canopy Expansion Potential on Vacant Land for Urban Heat Island Mitigation in Newark, NJ

**Presenter:** Georgia Rodriguez

**Faculty Sponsor:** Gregory Pope

**Title:** Balancing Child Safety and Family Rights: A Comparative Study of Reunification Systems in New Jersey and Texas

**Presenter:** Roshana Rollins

**Faculty Sponsor:** Thomas Loikith

**Title:** An Action Plan for the Network for Responsible Public Policy

**Presenter:** Jada Rowe

**Faculty Sponsor:** Martina Santia

**Title:** Exploring the Relationship Between Anxiety and Executive Functioning

Moderated by Autistic Traits

**Presenter:** Julia Rozum

**Faculty Sponsor:** Erin Kang

**Title:** Rethinking Free Speech in the Digital Age: Social Media, State Action, and the Limits of the First Amendment

**Presenter:** Cristian Sanchez-Velasco

**Faculty Sponsor:** Thomas Loikith

**Title:** From Breath to Brain: The Effects of Yoga and Meditation on Neurocognition and Mental Health

**Presenter:** Riya Savalia

**Faculty Sponsor:** Julian David Drori

**Title:** Camouflaging and Social Functioning in Autistic Youth: A Pilot Study Using the CAT-Q and SSIS

**Presenter:** Rio Scarcelli

**Faculty Sponsor:** Erin Kang

**Title:** Diffusion MRI Correlates of Processing Speed and Executive Control After Traumatic Brain Injury

**Presenter:** Allison Shea

**Faculty Sponsor:** Ruth Propper

**Title:** Rap Lyrics As Criminal Evidence

**Presenter:** Hameedah Siddiq

**Faculty Sponsor:** Thomas Loikith

**Co-Presenter(s):**

**Title:** Toward Tier 1 AAC Supports: Perspectives from School-Based Professionals

**Presenter:** Madison Skibicki

**Faculty Sponsor:** Grace Clark

**Co-Presenter(s):** Gabriella Pesantes, Muhdia Siyam

**Title:** Future Time Orientation and Risky Sexual Behaviors

**Presenter:** Leyla Smiley

**Faculty Sponsor:** Michael Bixter

**Co-Presenter(s):** Lexia Blake, Cassandra Tucker

**Title:** Inside and Out: A study of iDNA and eDNA in Different Environmental Matrices

**Presenter:** Erika Suero

**Faculty Sponsor:** Aishwarya Deshpande

**Title:** Flexible Work in STEM: Effects on Women's Work Experiences

**Presenter:** Sarvenaz Taridashti

**Faculty Sponsor:** Manuel Gonzalez

**Title:** The Effects of Synthetic Child-Directed Questions in LLM Training

**Presenter:** Michael Tombolini

**Faculty Sponsor:** Libby Barak

**Co-Presenter(s):** Whitney Poh

**Title:** Final Goodbyes: Creative Approaches for Faculty to End a Course

**Presenter:** Michelle Truffin

**Faculty Sponsor:** Milton Fuentes

**Title:** Challenging Misinformation & Encouraging Evidence-Based Practice in Speech-Language Pathology

**Presenter:** Kaitlyn Verney

**Faculty Sponsor:** Robyn Becker

**Title:** Classifying Suicide-Related Communication on Reddit

**Presenter:** Ruby Villalona

**Faculty Sponsor:** Libby Barak

**Title:** Co-Rumination vs. Reappraisal Following Racial Discrimination: Emotional, Relational, and Collective Action Outcomes

**Presenter:** Ryan Walker

**Faculty Sponsor:** Ana DiGiovanni

**Co-Presenter(s):** Alvin Parker

**Title:** Evaluating Nitrogen Dynamics and Water Quality Across Selected Sites in the Raritan River Watershed

**Presenter:** Kanijah Williams

**Faculty Sponsor:** Gregory Pope

**Title:** Love and Life in the Lyrical Lexicon: A Corpus Linguistic Methodological Study of Developing Frequency Wordlists and Lexical Diversity Measures in Burmese

**Presenter:** Kaung Hla Zan

**Faculty Sponsor:** Larissa Goulart

**Title:** To What Extent Does Environmental Awareness Correspond to the Motivations Behind Second-hand Purchasing Among Consumers?

**Presenter:** Liana Zarzecki

**Faculty Sponsor:** Lisa Johnson