



# Student Research Symposium



Hosted by the Office of Research

**MONTCLAIR**  
STATE UNIVERSITY

Friday, April 25th

8:00 am - 2:30 pm

The Conference Center  
University Hall, 7<sup>th</sup> Floor



# 2025 Student Research Symposium

## Schedule of Events



Time	Event
8:00 am	Doors Open for Student Check-In
8:00 am - 8:40 am	Light Continental Breakfast & Refreshments
8:40 am - 8:45 am	<b>Welcome</b> Dr. Stefanie Brachfeld, Vice Provost for Research and Interim Dean of the Graduate School
8:45 am - 9:00 am	<b>Opening Remarks</b> President Jonathan Koppell
9:00 am - 10:00 am	<b>Poster Session 1</b>
10:05 am- 10:25 am	<b>Presentation 1:</b> Dr. Laura Lakusta, Professor of Psychology and the 2020 University Distinguished Scholar <i>Peeking into the Minds of Babies: Insights about Nature and Nurture</i>
10:30 am-11:30 am	<b>Poster Session 2</b>
11:35 am - 11:55 am	<b>Presentation 2:</b> Dr. Chantelle Wright, Executive Director for Experiential Education and Career Connections <i>From College to Career: The Evolution of Student Career Preparation</i>
12:00 pm - 1:00 pm	<b>Poster Session 3</b>
1:05 pm - 1:25 pm	<b>Presentation 3:</b> Dr. Manuel Gonzalez, Professor of Psychology <i>Understanding the AI Age of Hiring</i>
1:30 pm - 2:30 pm	<b>Poster Session 4</b>

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

# Acknowledgements

## *The Review Committee*

**Dr. Robyn Becker**, Assistant Professor, Communication Sciences and Disorders

**Dr. Stefanie Brachfeld**, Vice Provost for Research and Interim Dean of the Graduate School

**Dr. Grace Clark**, Assistant Professor, Communication Sciences and Disorders

**Dr. Joseph Dinapoli**, Associate Professor, Mathematics

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

**Dr. Daeyong Kim**, Assistant Professor, School of Computing

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

**Dr. Dana Levitt**, Associate Dean for Academic Affairs, College for Community Health

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

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

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

**Dr. Lisa Anne Zilney**, Associate Professor, Justice Studies

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## *Campus Partners*

**Career Services**

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**Office of Graduate Admissions**

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**Research on Interdisciplinary Global Studies (RIGS)**

**University Libraries**

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## *Presenters*

**Dr. Laura Lakusta**, Professor of Psychology and the 2020 University Distinguished Scholar

*Peeking into the Minds of Babies: Insights about Nature and Nurture*

**Dr. Chantelle Wright**, Executive Director for Experiential Education and Career Connections

*From College to Career: The Evolution of Student Career Preparation*

**Dr. Manuel Gonzalez**, Professor of Psychology

*Understanding the AI Age of Hiring*

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## *The Planning Committee*

**Dr. Stefanie Brachfeld**, Vice Provost for Research and Interim Dean of the Graduate School, Office of Research

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

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

**Alexandra McGinley**, Graduate Assistant, Office of Research

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## *Event Volunteers*

**Vidya Atal**, SBUS

**Manuel Gonzalez**, CHSS

**Pevitr Bansal**, CHSS

**Alexis Khursigara**, CSAM

**Veronica Betts**, School of Nursing

**Rosemary Lipala**, CSAM

**Amanda Birnbaum**, CCHL

**Daniela Peterka-Benton**, CHSS

**Michael Bixter**, CHSS

**Ava Randel**, CHSS

**Deborah Chatr Aryamontri**, CHSS

**Lijiao Ren**, CSAM

**Tarika Daftary-Kapur**, CHSS

**John Rogers**, IRB Community Member

**Fred Gardin**, CCHL

**David Vincenti**, SBUS

## Poster Session 1: 9:00 - 10:00 AM

*(Alphabetical by Presenter's Last Name)*

**Title:** Assessing social vulnerability in Perth Amboy

**Presenter:** Marielis Abreu

**Advisor:** Greg Pope

**Title:** How the timing of taking NSAIDs influence the progression of symptoms of musculoskeletal injuries

**Presenter:** Melody An

**Advisor:** Fredrick Gardin

**Title:** Exploration of lower-extremity range of motion in national collegiate athletic association Division-III field hockey players

**Presenter:** Alexa Antonelli

**Advisor:** Luis Torres

**Title:** Mapping the path: The role of age in wayfinding development

**Presenter:** Evan Baidwan

**Advisor:** Laura Lakusta

**Co-Presenter(s):** Alejandro Gasper, Aliyah Latorre

**Title:** Unfolding state loss issues in foldable mobile devices

**Presenter:** Esperanza Baquedano

**Advisor:** Raina Samuel

**Co-Presenter(s):** Winston Nettey

**Title:** Spatial abilities in aging adults with Down Syndrome

**Presenter:** Romal Bhullar

**Advisor:** Yingying Yang

**Co-Presenter(s):** Sonia Conde

**Title:** The ones we fail

**Presenter:** Alexander Brown

**Advisor:** Thomas Loikith

**Title:** Healing through mindfulness: Empowering enhanced psychological well-being post-TBI

**Presenter:** Wasayef Bsharat

**Advisor:** Ruth Proper

**Title:** PET crossing: Investigating cross-lingual generalization of euphemisms in LLMs

**Presenter:** Hasan Can Biyik

**Advisor:** Anna Feldman

**Title:** Impact of urbanization on water quality and toxins in the Passaic River, New Jersey

**Presenter:** Janandre Castro

**Advisor:** Greg Pope

**Title:** Exploring the predictive utility of emotion regulation strategies on behaviorally expressed emotion dysregulation

**Presenter:** Natalia Cifuentes

**Advisor:** Erin Kang

**Co-Presenter(s):** Rachel McDonald, Angela Castilo, Haylee Garcia

**Title:** Identification of the rate determining step in DNA photolyase

**Presenter:** Dunia Darwich

**Advisor:** Yvonne Gindt

**Co-Presenter(s):** Sarah Hajjar

**Title:** The effectiveness of aquatic therapy on knee injuries

**Presenter:** Jordyn Defalco

**Advisor:** Fredrick Gardin

**Title:** What can or should be done to change the current prison system to avoid the psychological consequences of long-term solitary confinement on inmates?

**Presenter:** Miluska Delgado

**Advisor:** Thomas Loikith

**Title:** Generating copyright law in the world of artificial intelligence

**Presenter:** Kenneth Dembia

**Advisor:** Thomas Loikith

**Title:** Heart rate variability impacts shoot/don't shoot errors under high cognitive load

**Presenter:** Isabella DiVito

**Advisor:** Robert Horn

**Co-Presenter(s):** Keyla Checo

**Title:** Is mycoremediation effective on a residential level?

**Presenter:** Yismeily Duran

**Advisor:** Greg Pope

**Title:** Play behavior and cognitive flexibility in autistic and non-autistic children

**Presenter:** Haya Farhan

**Advisor:** Erin Kang

**Title:** Correlation between results of SCQ, D-KEFs and brief questionnaires as a measure of executive functioning in ASD diagnosed children

**Presenter:** Anthony Ferraro

**Advisor:** Erin Kang

**Co-Presenter(s):** Arabella Peters

**Title:** Turn points and talking points: Developmental differences in spatial language use during navigation

**Presenter:** Lauren Flakne

**Advisor:** Yingying Yang

**Co-Presenter(s):** Noor Alalwan, Mikayla Haas, Allison Holldender

**Title:** The baths of Caracalla: How public baths reflected roman society and imperial power

**Presenter:** Sara Victoria Gonzalez

**Advisor:** Deborah Chatr Aryamonson

**Title:** A critical appraisal of deep oscillation therapy and its effect on decreasing pain and swelling in acute ankle sprains

**Presenter:** Tyler Grieco

**Advisor:** Fredrick Gardin

**Title:** Prevalence of mental health symptoms among adolescent male student-athletes

**Presenter:** Samantha Hagenbush

**Advisor:** Luis Torres

**Title:** Structured literature review on "interpreter skill-gaps, training models and recommendations for Burma's interpreters"

**Presenter:** Kaung Hla Zan

**Advisor:** Larissa Goulart da Silva

**Title:** Severe maternal morbidity and infant health and healthcare utilization: A scoping review

**Presenter:** Laura Hyppolite

**Advisor:** Sze Yan Liu

**Title:** Balance training compared to strength training in recurrence of ankle sprains and return to function

**Presenter:** Elyse Ippolito

**Advisor:** Fredrick Gardin

**Title:** Tracing structural changes of the pH-dependent CRYDASH protein

**Presenter:** Fabricio S. Justiniano

**Advisor:** Yvonne Gindt



**Title:** Composting food waste at Montclair State University: A sustainable approach to waste management

**Presenter:** Salvatore Kallai

**Advisor:** Greg Pope

**Title:** Restrict the constitutional right to travel after Dobbs v. Jackson women's health organization

**Presenter:** Aiman Kashif

**Advisor:** Thomas Loikith

**Title:** Patient characteristics and growth outcomes among children with feeding difficulties

**Presenter:** Amelia Kearney

**Advisor:** Jessica Bihuniak

**Title:** Exploring common misconceptions among SLPs related to the multi-tiered systems of support framework

**Presenter:** Madelyn Kwak

**Advisor:** Lesley Sylvan

**Co-Presenter(s):** Alexandra Bond

**Title:** Structural analysis of Wuchereria bancrofti dihydrofolate reductase in complex with methotrexate and TSD compounds

**Presenter:** Salma Kwarteng

**Advisor:** Nina Goodey

**Title:** The role of emotion dysregulation in adaptive functioning associated with internalizing symptoms among neurodiverse youth

**Presenter:** Emily Lynch

**Advisor:** Erin Kang

**Title:** How and why international law has been limited in Palestine

**Presenter:** Barry Mahmoud

**Advisor:** Thomas Loikith

**Title:** Speaking out loud

**Presenter:** Magen Daniela Malka-Teasley

**Advisor:** Larissa Goulart da Silva

**Co-Presenter(s):** Fernanda Lourenco da Silva

**Title:** A survey of medical coverage in the marching arts

**Presenter:** Stephanie Maszera

**Advisor:** Fredrick Gardin

**Title:** Microbial fuel cells as compared to renewable energy resources



**Presenter:** Kathleen McBride

**Advisor:** Greg Pope

**Title:** The mediating effect of emotional dysfunction on the relationship between autism spectrum disorder and anorexia nervosa

**Presenter:** Nora May McSorley

**Advisor:** Erin Kang

**Co-Presenter(s):** Suleina Houston

**Title:** Exploring connections between student engagement, social interactions, and mathematical modeling

**Presenter:** Gabriella Migliore

**Advisor:** Joseph DiNapoli

**Co-Presenter(s):** Denis Cook

**Title:** Effects of leadership experiences on psychosocial development

**Presenter:** Ian Miller

**Advisor:** Valerie Sessa

**Title:** Identifying the rate-limiting step in the catalytic mechanism of indole-3-glycerol phosphate synthase in Mycobacterium Tuberculosis

**Presenter:** Crystal Montero

**Advisor:** Nina Goodey

**Title:** Utilizing remote sensing to identify optimal locations for eelgrass restoration in Barnegat Bay

**Presenter:** Jayden Morton

**Advisor:** Greg Pope

**Title:** Correlation between dynamic knee valgus and active hip external rotation in healthy active adults

**Presenter:** Mohamed Moustafa

**Advisor:** Luis Torres

**Title:** Expression and purification of dihydrofolate reductase from Wuchereria bancrofti as a potential antifolate drug target

**Presenter:** David Otu-Aboagye

**Advisor:** Nina Goodey

**Title:** Understanding protein, cosolvent and water interaction

**Presenter:** Chetsi Patel

**Advisor:** Yvonne Gindt

**Title:** Empowering business growth and education in Honduras: Volunteering with global brigades

**Presenter:** Sara Patel

**Advisor:** Archana Kumar

**Title:** Investigating the impact of viscosity on Mycobacterium Tuberculosis IGP synthase catalysis

**Presenter:** Isyss Perez

**Advisor:** Nina Goodey

**Title:** The influence of orthographic representations on verb learning

**Presenter:** Gabriella Pesantes

**Advisor:** Grace Clark

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

**Title:** Does understanding of leadership post-college college affect motivation to lead post-college?

**Presenter:** Jean Puerta

**Advisor:** Valerie Sessa

**Title:** The illusion of preparedness: Unmasking Bangladesh's university English teaching paradox

**Presenter:** Masud Rahman

**Advisor:** Lauren Covery

**Title:** Improving the U.S. Federal Prison System: Lessons from Norway

**Presenter:** Sarah Ramsumair

**Advisor:** Thomas Loikith

**Title:** Living greek: Research for the office of greek life

**Presenter:** Bridget Reed

**Advisor:** Martina Santia

**Co-Presenter(s):** Ava Wells, Claudia Vivar Mendoza, Starasia Williams

**Title:** Utilizing AI to revolutionize perception training for children with residual speech sound disorder

**Presenter:** Madeline Russell

**Advisor:** Elaine Hitchcock

**Title:** Electrochemical reduction of nitrate using carbon black supported iron catalysts

**Presenter:** Danela Sadikaj

**Advisor:** Wanlu Li

**Title:** Green spaces and urbanization

**Presenter:** Simon Santamaria

**Advisor:** Thomas Loikith

**Title:** A preliminary investigation of the prevalence of motor speech and language disorders within a pediatric outpatient clinical setting, effect of listener experience on intelligibility, severity, and perceived listening effort in apraxia of speech

**Presenter:** Meghan Santarelli

**Advisor:** Kate Nealon

**Co-Presenter(s):** Julia Pereira

**Title:** Water soluble fluorescent sensors for cation

**Presenter:** Xiomara Santos

**Advisor:** Saliya Desilva

**Co-Presenter(s):** Tuleen Abdallah

**Title:** Wired for moderation: Toll-like receptors as regulators of alcohol-induced behaviors

**Presenter:** Kamya Shah

**Advisor:** Christos Suriano

**Co-Presenter(s):** Gursimran Gujral

**Title:** Analysis of molecular switches through computational modeling

**Presenter:** Weronika Siek

**Advisor:** Saliya Desilva

**Title:** Faults of antitrust laws

**Presenter:** Stephanie Sierra

**Advisor:** Thomas Loikith

**Title:** Gender differences in substance abuse among young adults: An exploration of the conduct problems gender paradox

**Presenter:** Natalie Sommervold

**Advisor:** Pevitr Bansal

**Co-Presenter(s):** Megan Crowley

**Title:** 3D modeling and simulation of support structures for a 3He refrigeration platform

**Presenter:** Eric Swanson

**Advisor:** Kent Leung

**Co-Presenter(s):**

**Co-Author(s):** N/A

**Title:** Bowling and LucySwiss: Two novel arthrobacter phage

**Presenter:** Sydney Szeligowski

**Advisor:** Kirsten Monsen

**Co-Presenter(s):** Sarahi Romero

**Title:** The relationship of menstruation and the risks of ACL tears on female adolescent athletes

**Presenter:** Caitlyn Tamayo

**Advisor:** Fredrick Gardin

**Title:** Do students and institutions share the same values? Exploring student perspectives at Montclair State University

**Presenter:** Anglin Thevaraja

**Advisor:** Elyse Postlewaite

**Co-Presenter(s):** Elaine Les, Yasmine Perry, Jackie Novak

**Title:** Bridging divides: Addressing sustainable goal 16 in Bosnia and Herzegovina

**Presenter:** Maya Trajanoska

**Advisor:** Fanny Lauby-McKinley

**Title:** Synthesis and characterization of the structure of neutral flavin radicals in solution

**Presenter:** Alejandro Trevino

**Advisor:** Johannes Schelvis

**Title:** Cytochrome P450 BM3 E267V activity and inhibition

**Presenter:** Genecis Urena Guzman

**Advisor:** Jaclyn Catalano

**Title:** Measuring the effects of co-solvents on hydrogen bonding in water through infrared spectroscopy at different temperatures and on photolyase activity

**Presenter:** Yuma Sanchez Vidal

**Advisor:** Johannes Schelvis

**Co-Presenter(s):** Erica Leon

**Title:** Emily Dickinson: Societal influence on poetry

**Presenter:** Kaylee Whritenour

**Advisor:** Jessica Restaino

## Poster Session 2: 10:30 - 11:30 AM

*(Alphabetical by Presenter's Last Name)*

**Title:** Heterocyclic activated cycloaddition

**Presenter:** Nadya Ackermanian

**Advisor:** Magnus Bebbington

**Title:** Corruption within the American judiciary: The unspoken crime

**Presenter:** Grace Agbessi

**Advisor:** Thomas Loikith

**Title:** Navigating worlds: How children develop spatial skills in virtual reality and real life

**Presenter:** Noor Alalwan

**Advisor:** Yingying Yang

**Title:** The race for legal consensus on eliminating pay disparities

**Presenter:** Karen Aliaga

**Advisor:** Thomas Loikith

**Title:** Perfect game

**Presenter:** Vincent Anello

**Advisor:** Yawei Wang

**Title:** How may psychological support from an athletic trainer impact male collegiate athletes return to play outcomes?

**Presenter:** Danny Baroni

**Advisor:** Fredrick Gardin

**Title:** Criminal cases in the spotlight: Media bias in trials

**Presenter:** Jannathy Begum

**Advisor:** Thomas Loikith

**Title:** The effectiveness of behavioral treatment and physical management on children with callous-unemotional (CU) traits

**Presenter:** Romal Bhullar

**Advisor:** Pevitr Bansal

**Title:** Data privacy and ethical implications in modern legal frameworks

**Presenter:** Stephanie Bonifacio Perez

**Advisor:** Thomas Loikith

**Title:** Transforming neurodiversity research: The influence of neurodiversity in the development of research methodology

**Presenter:** Wasayef Bsharat

**Advisor:** Julian David-Drori

**Title:** Emotional dysregulation and its relationship to peer victimization and aggression among neurodiverse youth

**Presenter:** Angela Castillo

**Advisor:** Erin Kang

**Co-Presenter(s):** Rachel G. McDonald, Haylee Garcia, Natalia Cifuentes

**Title:** Morphological variation in *Gonionemus Vertens* among latitudinal gradient of population

**Presenter:** Purna Chakraborty

**Advisor:** Paul Bologna

**Title:** Time perspective survey

**Presenter:** Sonia Conde

**Advisor:** Michael Bixter

**Co-Presenter(s):** Shannon Desbiens

**Title:** Preparation and characterization of PEDOT:PS/CNT blends for light addressable electrochemical sensing

**Presenter:** Selena Dahdouh

**Advisor:** Glen O'Neil

**Title:** Advancing in the single-step production of functional 3D printed electrochemical flow cells

**Presenter:** Cameron Darvish

**Advisor:** Glen O'Neil

**Title:** The effects of taping vs. orthotics on reducing plantar fasciitis/plantar heel pain

**Presenter:** Luisa Davila

**Advisor:** Fredrick Gardin

**Title:** Interdisciplinary research on homelessness and health

**Presenter:** Alexandra De Martinis

**Advisor:** Thomas Loikith

**Title:** Leadership self-efficacy development during college and early career

**Presenter:** Evelyn Dishaw

**Advisor:** Valerie Sessa

**Co-Presenter(s):** Pallavi Honkanadavar

**Title:** Interrater reliability of the smooth pursuit and saccadic tasks of the VOMS among certified athletic trainers

**Presenter:** Julia Rose Duardo

**Advisor:** Fredrick Gardin

**Title:** Couch potato' vs. 'sweet potato': How the bilingual brain understands metaphors

**Presenter:** Nicolina Echevarria

**Advisor:** Lauren Covey

**Co-Presenter(s):** Stacy Berganza

**Title:** Unwrapping sexism: The convergence of law, gender, and social change in American society

**Presenter:** Kimberly Estime

**Advisor:** Thomas Loikith

**Title:** Fast and provable unlearning for split models via orthogonal gradient decomposition

**Presenter:** Ashley Etheridge

**Advisor:** Chao Huang

**Title:** Famine in Yemen: Causes, effects, and lessons for prevention

**Presenter:** Mia Fayez

**Advisor:** Anthony Spanakos

**Title:** Racial bias and the constitutionality of the death penalty

**Presenter:** Taneesha Flynn

**Advisor:** Thomas Loikith

**Title:** Dietary tribulations of Portuguese émigré consumers in a northeast U.S. Portuguese neighborhood: A qualitative investigation

**Presenter:** Nicole Fontes

**Advisor:** Charles Feldman

**Co-Presenter(s):** Shubham Gautam

**Title:** Sex and age differences in self-reported anxiety and quality of life in autistic and non-autistic youth

**Presenter:** Zeina Ghanem

**Advisor:** Erin Kang

**Co-Presenter(s):** Rio Scarcelli

**Title:** Correlation between grip strength and upper extremity injury risk among BJJ athletes

**Presenter:** Rodolfo Giron

**Advisor:** Fredrick Gardin

**Title:** Evidence of behavioural thermoregulation in novel assay for Ectothermic isopods: *Armadillidium vulgare* and *Procellio laevis*

**Presenter:** Ndioro Gueye

**Advisor:** Scott Kight



**Title:** Human vs AI prompts: Exploring differences in grammatical choices of writer's intent

**Presenter:** Thomas Hicks

**Advisor:** Libby Barak

**Title:** Disparities in sentences for crack and powdered cocaine convictions: A reflection of systemic racial bias

**Presenter:** Jordan Ince

**Advisor:** Thomas Loikith

**Title:** Is socioeconomic status the real cause of the 30 million word gap?

**Presenter:** Omayma Jabara

**Advisor:** Robyn Becker

**Title:** Eliminating religious discrimination in the workplace

**Presenter:** Allaquan Jones

**Advisor:** Thomas Loikith

**Title:** The photoprotection of Flavin Adenine Dinucleotide and Riboflavin by 5,10-methenyltetrahydrofolate

**Presenter:** Melisa Kasli

**Advisor:** Johannes Schelvis

**Title:** ESG scores and true environmental impact

**Presenter:** Tiffany Kemeklis

**Advisor:** Greg Pope

**Title:** Investigating EC reactions for measuring neurotransmitters

**Presenter:** Yousef Khatib

**Advisor:** Glen O'Neil

**Title:** Cosmic ray muon during 2024 solar eclipse

**Presenter:** Sophie Krupin

**Advisor:** Kent Leung

**Co-Presenter(s):** Zoe Drasheff

**Title:** Assessment of gastrointestinal/feeding symptoms, impacts, and treatments in patients affected by peroxisomal disorders

**Presenter:** Sarah Liz

**Advisor:** Mousumi Bose

**Title:** AI and children's literacy

**Presenter:** Aidan Lopez

**Advisor:** Jessica Restaino

**Title:** Comparison of pitching styles causing UCL tears: A critically appraise topic

**Presenter:** Nicholas Maccarone

**Advisor:** Fredrick Gardin

**Title:** Self-representation of female politicians: A gendered approach to social media

**Presenter:** Jenna Marcy

**Advisor:** Dongdong Yang

**Title:** Special immigrant juveniles, the law, and mental health abstract

**Presenter:** Andrea Martinez

**Advisor:** Thomas Loikith

**Title:** Cacao Agroforestry: A land-management strategy for ecosystem restoration and sustainable agriculture in the Brazilian Atlantic rainforest

**Presenter:** Trevor McConville

**Advisor:** Greg Pope

**Title:** The office of Greek life: Strengthening community on and off campus

**Presenter:** Maraluna Medina

**Advisor:** Martina Santia

**Co-Presenter(s):** Tamara Jones, Emma Haskell, Stephanie Pinos

**Title:** Breastfeeding education requirements in U.S. public schools

**Presenter:** Karen Andrea Mendez Camacho

**Advisor:** Lauren Dinour

**Title:** Effect of daytime napping on sports performance in adult athletes

**Presenter:** Kelly Negra

**Advisor:** Fredrick Gardin

**Title:** Is car runoff polluting the lake by lot 45 at Montclair State University?

**Presenter:** Isabella O'Neill

**Advisor:** Greg Pope

**Title:** Religion and women's reproductive health-seeking behavior in Nigeria: The moderating effects of women's empowerment and context.

**Presenter:** Kingsley Obiorah

**Advisor:** Sangeeta Parashar

**Title:** A geotechnical investigation of the hydrogeological setting of an artesian well system in Stokes State Forest

**Presenter:** Lena Ouellette

**Advisor:** Greg Pope

**Title:** Understanding Latine students at Montclair State University, a Hispanic-serving institution

**Presenter:** Jean Puerta

**Advisor:** Milton Fuentes

**Co-Presenter(s):** Stephanie Ramos, Geraldine Pena

**Title:** Investigation of binding parameters for arthrobacter phage

**Presenter:** Noah Ramadan

**Advisor:** Quinn Vega

**Co-Presenter(s):** Sheridan Harney

**Title:** An analysis of the differences in behaviors within a VR learning environment for singles and pairs

**Presenter:** Anthony Reyes

**Advisor:** Elliot Hu-Au

**Title:** Sibling relationships and influence among first-generation college students

**Presenter:** Jose Rodas

**Advisor:** Pearl Stewart

**Title:** PET Scan: Uncovering cross-lingual abilities of LLMs to detect potentially euphemistic terms

**Presenter:** Julia Sammartino

**Advisor:** Anna Feldman

**Title:** Movement patterns of *Porcellio laevis* in response to environmental stimuli

**Presenter:** Katherine Saravia

**Advisor:** Scott Kight

**Co-Presenter(s):** Angelo Miguel, Eraj Khan

**Title:** The severity of water pollution in the lower Passaic River

**Presenter:** Demitris Smith

**Advisor:** Greg Pope

**Title:** Survey results from understudied linguistic communities

**Presenter:** Eliana Stevens

**Advisor:** Jonathan Howell

**Co-Presenter(s):** Kai Retana, Kevin Grealis

**Title:** From barriers to ballots: Black women's historical fight and its influence on today's voting rights movement

**Presenter:** Amiya Strother

**Advisor:** Thomas Loikith

**Title:** Understanding premenstrual syndrome among college students and its association with dietary habits

**Presenter:** Luna Takagi

**Advisor:** Yeon Bai

**Title:** Statewide assessment, land use patterns, and source apportionment of per- and poly-fluoroalkyl compounds across New Jersey monitoring wells, watershed management areas, and regions

**Presenter:** Odera Umeh

**Advisor:** Duke Ophori

**Co-Presenter(s):** Tinotenda Muchenje

**Title:** Testing for structural changes to 1,10-phenanthroline indicator in grignard titrations

**Presenter:** Erika VanDooijeweert

**Advisor:** Nathanael Hirscher

**Title:** An exploration into racial and ethnic identification at Montclair State University

**Presenter:** Cole Vitelli

**Advisor:** Milton Fuentes

**Co-Presenter(s):** Kiara Padmore, Christian Smith, Anderson Mata

**Title:** Taping vs bracing for patellofemoral pain syndrome

**Presenter:** Caroline Walz

**Advisor:** Fredrick Gardin

**Title:** How does establishing concrete ESG practices influence the financial performance of companies in the U.S. built environment sector compared to global organizations over the past 10 years?

**Presenter:** Cheyanna Weigand

**Advisor:** Greg Pope

**Title:** Thread by thread: The negative effects of fast fashion on the environment

**Presenter:** Soniyah Wilkes

**Advisor:** Greg Pope

**Title:** In-vitro analysis of cobalt sulfate exposure on human fibroblast lung cell health

**Presenter:** Natalie Winner

**Advisor:** Ann Dilorenzo

**Co-Presenter(s):** Emma Grasso

**Title:** Comparison of soil builder product, artificial root exudates, and fertilizer on brownfield soil

**Presenter:** Janyce Wowk

**Advisor:** Nina Goodey

**Title:** Organic synthesis or substituted phenanthrolines using aril magnesium reagents

**Presenter:** Bryan Yap

**Advisor:** Nathanael Hirscher

**Title:** Exclusion and inequality: The social and legal implications of immigrant labor in the U.S. workforce

**Presenter:** Floralba Ymeri

**Advisor:** Thomas Loikith

**Title:** From heavy to healed: Investigating the effects of artificial root exudates on heavy metal removal in barren soil

**Presenter:** Naima Zaheer

**Advisor:** Nina Goodey

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

*(Alphabetical by Presenter's Last Name)*

**Title:** The importance of considering mental health during criminal sentencing

**Presenter:** Amber Abbasi

**Advisor:** Thomas Loikith

**Title:** The uncanny, triad consciousness, and intersectionality in Ann Petry's *The Street*

**Presenter:** Noah Aljaludi

**Advisor:** Melinda Knight

**Title:** Probing the mechanism of forming magnetic carbon composite using x-ray photoelectron spectroscopy

**Presenter:** Tasnim Agha Alkila

**Advisor:** Wanlu Li

**Title:** Purification of GST-Tagged major capsid protein for aptamer-based detection of ranavirus

**Presenter:** Anushka Anushka

**Advisor:** Nina Goodey

**Title:** Feasibility of using mixed reality with people with stroke

**Presenter:** Sydney Ash

**Advisor:** Ruth Propper

**Title:** Le français belge

**Presenter:** Ptissem Assou

**Advisor:** Kathleen Loysen Turek

**Title:** Circadian rhythm disruption is related to self-diagnosis of mental illness: Implications for shift work

**Presenter:** Arianna Bagegem

**Advisor:** Ruth Propper

**Title:** *Wuchereria bancrofti* dihydrofolate reductase expression and purification methods with initial kinetic studies

**Presenter:** Ariaxi Lock Becerra

**Advisor:** Nina Goodey

**Title:** Evaluation of mammal and herptile biodiversity at Montclair State University

**Presenter:** Camelia Yasmine Bechia

**Advisor:** Lisa Hazard

**Co-Presenter(s):** Rutvi Jani, Eric Drazek, Casey-Favour Promise, Brady Bolton

**Title:** Determining bioturbation rates and ocean productivity through geochemical paleo-proxies

**Presenter:** Madison Braswell

**Advisor:** Sandra Passchier

**Title:** Beyond the tipping point: Determining the optimal balance between leadership roles and student well-being

**Presenter:** Wasayef Bsharat

**Advisor:** Valerie Sessa

**Title:** Automated regulatory classification of mobile medical apps

**Presenter:** Ernest Chianumba

**Advisor:** Raina Samuel

**Co-Presenter(s):** Franklyn Kogolo

**Title:** The impact of food insecurity on healthcare access in New Jersey

**Presenter:** Savanna Correia

**Advisor:** Sze Yan Liu

**Title:** Photocatalytic disinfection of titania nanotubes- graphitic carbon nitride

**Presenter:** Nafisatu Davies

**Advisor:** Wanlu Li

**Title:** Parent-child concordance on anxiety and executive functioning: Influences of autistic traits and socioeconomic status

**Presenter:** Willow DeFilippo

**Advisor:** Erin Kang

**Title:** Assessing bullfrog population size distribution in a wetland habitat at Montclair State University

**Presenter:** Janelle DelCastillo

**Advisor:** Lisa Hazard

**Co-Presenter(s):** Daniel Mecca, Dayna Brown, Daniel Casabona, Khaliyah Dixon

**Title:** Exploring the association between social media and soda consumption among high school students

**Presenter:** Paige Dellosso

**Advisor:** Lauren Dinour

**Title:** Survey of raptors across the main campus of Montclair State University

**Presenter:** Khrystal Dukleski

**Advisor:** Lisa Hazard

**Co-Presenter(s):** David Labaguis, Isaiah Martinez-Cruz, Joanna Napoleone, Benjamin Neavear



**Title:** Investigating IGP synthase as a potential target for mycobacterium tuberculosis

**Presenter:** Alexandra Everson

**Advisor:** Nina Goodey

**Title:** Post – Translational regulation of ICER

**Presenter:** Maria Fiuk

**Advisor:** Carlos Molina

**Title:** Exploring career pathways in grant writing

**Presenter:** Rachel Fraile

**Advisor:** Jessica Restaino

**Title:** Association of emotion dysregulation in neurodiverse youth and parental quality of life

**Presenter:** Haylee Garcia

**Advisor:** Erin Kang

**Co-Presenter(s):** Rachel G. McDonald, Angela Castillo, Natalia C. Macias

**Title:** Effect of gluten-free ingredients substitutions on the antioxidant potential of antioxidant-rich based goods

**Presenter:** Shubham Gautam

**Advisor:** Adrian Kerrihard

**Title:** Purification of sumo-tagged ranavirus major capsid protein

**Presenter:** Priyansi Govani

**Advisor:** Nina Goodey

**Title:** College student's perceptions of acceptability of an AI-powered mental wellness chatbot for college student mental health

**Presenter:** Jack Gregory

**Advisor:** Jazmin Reyes-Portillo

**Co-Presenter(s):** Christian Last

**Title:** Decoding psychology through text: Insights into text-based symptom classification

**Presenter:** Rachel Hamelburg

**Advisor:** Katsiaryna Aharodnik

**Co-Presenter(s):** Julia Sammartino

**Title:** Are two heads better than one?

**Presenter:** Hannah Hollow

**Advisor:** Michael Bixter

**Title:** Transgender students' sense of safety and belonging at Montclair State

**Presenter:** Adrian Gervasi Humenik

**Advisor:** Elaine Gerber

**Title:** Fostering belonging, retention, and success: A scalable 25-minute intervention

**Presenter:** Hajar Ismailzad

**Advisor:** Emily Isaacs

**Co-Presenter(s):** Jackie Novak

**Title:** Testing lysogeny and phage resistance in mesa-derived bacteria arthrobacter sp.

**Presenter:** Janice Kapelevich

**Advisor:** Quinn Vega

**Title:** Objective and subjective measure of reward sensitivity

**Presenter:** Bridgit Kelly

**Advisor:** Akina Umemoto

**Title:** Key components for a community-wide compost program in Montclair Township

**Presenter:** Justin Kelly

**Advisor:** Greg Pope

**Title:** Next generation sequencing shows the effects of simulated root exudates on microbial composition in a barren, contaminated soil

**Presenter:** Sarah Krisak

**Advisor:** Nina Goodey

**Title:** Observational study of bird populations at four sampling points on the Montclair State University campus

**Presenter:** Alyssa Lamberto

**Advisor:** Lisa Hazard

**Co-Presenter(s):** Fiza Bakht, Shahana Begum, Lauren Rivera

**Title:** Growth of social media in recent years

**Presenter:** Cameron Lashgari

**Advisor:** Thomas Loikith

**Title:** Perceptions of Chatgpt in a college classroom

**Presenter:** Elaine Les

**Advisor:** Miriam Linver

**Co-Presenter(s):** Yasmine Perry

**Title:** A cross-disciplinary approach to supporting mathematically

**Presenter:** Evelyn Lopez

**Advisor:** Ashuwin Vaidya

**Title:** Phonetic convergence and speech intelligibility

**Presenter:** Kinza Mughal

**Advisor:** Jennifer Pardo

**Title:** Tariffs and fiscal fallout: How trade policy drives government healthcare costs

**Presenter:** Ryan Nguyen

**Advisor:** Orkideh Gharehgozli

**Co-Presenter(s):** Zachary Romaine

**Title:** Reclaiming strength: Voices of women who survived firearm intimate partner violence

**Presenter:** Donna Meeker-O'Rourke

**Advisor:** Ashley Ermer

**Title:** Effects of E47D amino acid on the catalytic activity and substrate binding affinity in *Thermotoga maritima* IGPS enzyme

**Presenter:** Stella Obuba

**Advisor:** Nina Goodey

**Title:** Structural characterization of *m. tuberculosis* IGP synthase (IGPS) variants using circular dichroism (CD) spectroscopy

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

**Advisor:** Nina Goodey

**Title:** Biomimetic reconstitution of viral fusion reveals insights into coreceptor binding and infectivity, distinguishing HIV-1 and HIV-2 subtypes

**Presenter:** Kamsy Kyrian Okafor

**Advisor:** Il Hyung Lee

**Title:** Crystallographic studies and synthesis of hexakis (imidazole) nickel(2+) complexes with substituted N-Benzoylalanine ligands

**Presenter:** Nicholas Ortiz

**Advisor:** Mark Whitener

**Title:** Digital harassment: Analyzing patterns, impacts, and mitigation strategies in online platforms

**Presenter:** Yaa Owusu-Mensah

**Advisor:** Daeyoung Kim

**Title:** Fulfilling the goals of the ADA-broadening its applicability and strengthening its enforcement: an interdisciplinary analysis

**Presenter:** Bahar Ozcan

**Advisor:** Thomas Loikith

**Title:** Creating neuroinclusive workplaces: A literature review

**Presenter:** Bhumi Patel

**Advisor:** Amanda Birnbaum

**Title:** Examining the lived experiences of African American parents of children with disabilities

**Presenter:** Chrishay Pearce

**Advisor:** Pearl Stewart

**Title:** What are the differences in water quality between rural and urban environments?

**Presenter:** Pamela Perez

**Advisor:** Greg Pope

**Title:** Participation-focused intervention in stuttering: Perspectives of stakeholders

**Presenter:** Gabriella Pesantes

**Advisor:** Michael Boyle

**Co-Presenter(s):** Stephen Wilkins

**Title:** Feedback and self regulation: A gendered perspective

**Presenter:** Emily Pinsk

**Advisor:** Manuel Gonzalez

**Title:** Personality and effective leadership: The relationship between openness and theory of mind

**Presenter:** Afsin Rehman

**Advisor:** Jennifer Bragger

**Title:** Vegetated verges in suburban and urban areas: Environmental benefits

**Presenter:** Sara Rincon

**Advisor:** Greg Pope

**Title:** Should federal law preempt state law on the subject of immigration?

**Presenter:** Dante Romero

**Advisor:** Thomas Loikith

**Title:** "I almost broke": Examining the mental health impact of gendered racism among black millennial women

**Presenter:** Erin Scott

**Advisor:** Jason Williams

**Title:** Molecular characterization of the Terminase enzyme from the Shival phage

**Presenter:** Viola Shabani

**Advisor:** Quinn Vega

**Title:** Addressing trauma in the juvenile justice system

**Presenter:** Alyssa Sierra

**Advisor:** Thomas Loikith

**Title:** Testing the latent structure of a measure of delay of gratification

**Presenter:** Md Allama Ikbāl Sijan

**Advisor:** Michael Bixter

**Title:** How adults volunteering with youth perceive the value of youth leadership

**Presenter:** Nicole Sochaczewski

**Advisor:** Miriam Linver

**Co-Presenter(s):** Luisa Engeldinger

**Title:** Water soluble fluorescent sensors for cation

**Presenter:** Natalie Sommervold

**Advisor:** Saliya Desilva

**Co-Presenter(s):** Tuleen Abdallah

**Title:** Investigating the role of Ser220 mutations in m. tuberculosis IGPS

**Presenter:** Kerima Soobzokov

**Advisor:** Nina Goodey

**Title:** Consequences of urban development on agricultural areas of Burlington county, NJ

**Presenter:** Danielle Stewart

**Advisor:** Greg Pope

**Title:** Menopause meets the workplace: Age, gender, and job commitment

**Presenter:** Sarvenaz Taridashti

**Advisor:** Manuel Gonzalez

**Title:** Navigating bilingual horizons: English speakers' journey to Spanish fluency

**Presenter:** Gisela Torgovnick

**Advisor:** Anne Edstrom

**Title:** Preventative and interventive methods in combating mass shootings in the U.S.

**Presenter:** Neslihan Turan

**Advisor:** Thomas Loikith

**Title:** Rap lyrics on trial: The criminalization of rap lyrics and first amendment protections of freedom of expression

**Presenter:** Joseline Velasquez-Olivera

**Advisor:** Thomas Loikith

**Title:** How do phonological/phonemic awareness and speech sound production influence one another?

**Presenter:** Kaitlyn Verney

**Advisor:** Robyn Becker

**Title:** The potential moderating role of estrogen effects of transcranial direct current stimulation on working memory

**Presenter:** Samantha Walsh

**Advisor:** Alexandra Gaynor

**Title:** Framing the end of birthright citizenship: An experimental study of students' perceptions of Trump's executive order

**Presenter:** Myia White

**Advisor:** Martina Santia

**Title:** Nutley's invasive plant problem

**Presenter:** Joseph Wolf

**Advisor:** Greg Pope

## Poster Session 4: 1:30 - 2:30 PM

*(Alphabetical by Presenter's Last Name)*

**Title:** Authoritarian drift and democratic resistance: Justicecraft and the dynamics of backsliding in south and southeast Asia

**Presenter:** Marielis Abreu

**Advisor:** Arnaud Kurze

**Title:** Marine pollution

**Presenter:** Aleks Afonso

**Advisor:** Thomas Loikith

**Title:** ADHD symptoms and neural correlates of executive functioning in autistic and non-autistic youth

**Presenter:** Reem Ahmad

**Advisor:** Erin Kang

**Co-Presenter(s):** Arabella Peters, Sydney Valentine, Natalia Cifuentes, Rachel G. McDonald

**Title:** Prevalence of parasites in the comb jelly, *Mnemiopsis leidyi*, size does matter.

**Presenter:** Rylee Allen

**Advisor:** Paul Bologna

**Title:** Granules of gold: The light etruria

**Presenter:** Hailey Amanna

**Advisor:** Deborah Chatr Aryamonson

**Title:** Color of justice: Exploring racial biases in sentencing outcomes

**Presenter:** Christopher Boyd

**Advisor:** Thomas Loikith

**Title:** Career expectations of future counselors

**Presenter:** Nivioska Bruce

**Advisor:** Amanda Baden

**Title:** Natural gas or 100% renewable: How should developing countries expand their energy infrastructure?

**Presenter:** Dylan Buchman

**Advisor:** Greg Pope

**Title:** The mechanisms of paid memberships: Customer entitlement, status, and power

**Presenter:** Skye Burlew

**Advisor:** Manuel Gonzalez



**Title:** What tools of the trade from informal science education are useful to science teachers?  
An investigation into the practices of former informal science educators who are now classroom science teachers

**Presenter:** Elizabeth Carletta

**Advisor:** Douglas Larkin

**Title:** Exploring the link between social responsiveness and anxiety: A sex-based study in a neurodiverse adolescent sample

**Presenter:** Dante Casolaro

**Advisor:** Erin Kang

**Co-Presenter(s):** Mary Isaac Cargill

**Title:** Exploring dream therapy as an alternative to capital punishment: An ethical and psychological perspective

**Presenter:** Nicholas Cazenave

**Advisor:** Thomas Loikith

**Title:** Exploring behaviors of code switching among translations

**Presenter:** Luz Cordova

**Advisor:** Lauren Covey

**Title:** Analyzing the links between superfund sites and community health in the state of New Jersey

**Presenter:** Meghan Craig

**Advisor:** Greg Pope

**Title:** Microplastics in river environments

**Presenter:** Jason Crawford

**Advisor:** Joshua Galster

**Title:** Income disparity and the need for tax reform: An interdisciplinary analysis

**Presenter:** Kimberly Crespo

**Advisor:** Thomas Loikith

**Title:** Battered woman syndrome and spousal homicide: Bridging the gap between psychological understanding and legal strategy

**Presenter:** Ava Rose Dressendofer

**Advisor:** Thomas Loikith

**Title:** Magnetic separation and characterization of ferrospheres in contaminated soil

**Presenter:** Eshariah Dyson

**Advisor:** Nina Goodey

**Co-Presenter(s):** Shaun Montoya

**Title:** Arylation of phenanthrolines to produce ligands for nickel(ii) complexes

**Presenter:** Julian Van Esselstine

**Advisor:** Nathanael Hirscher

**Title:** Fearless VR: Can you overcome your fear?

**Presenter:** Anna Fronczkowski

**Advisor:** Rui Li

**Co-Presenter(s):** Paolo La Rosa, Kevin Estrada, Nicole Gallo

**Title:** Effects of reporting a defendant's race in a forensic mental health assessment for sentencing

**Presenter:** Elana Gabriel

**Advisor:** Chris King

**Title:** Sequential extraction of heavy metals in barren soil from Liberty State Park

**Presenter:** Isabella Gencarelli

**Advisor:** Nina Goodey

**Co-Presenter(s):** Jasmin Marquez

**Title:** Parameter estimation errors from post-Newtonian waveform choices

**Presenter:** Michael Giarratana

**Advisor:** Marc Favata

**Title:** From Troy to Vietnam: A diachronic analysis of injuries and treatment modalities

**Presenter:** Hrisa Goga

**Advisor:** Prudence Jones

**Title:** The Sperlonga statuary – A case study of tactical landscape design in imperial Rome

**Presenter:** Elizabeth Gray

**Advisor:** Deborah Chatr Aryamonson

**Title:** Automated rapid prosody transcription

**Presenter:** Seth Heiney

**Advisor:** Jonathan Howell

**Title:** What do families with young children value about an organization that helps them connect their kids with nature?

**Presenter:** Yaire Hernandez

**Advisor:** Amanda Birnbaum

**Title:** Personality predictors of engagement with an online mental health intervention

**Presenter:** Lyndsay Horn

**Advisor:** Jazmin Reyes-Portillo

**Title:** Democratic resilience amid capitalist pressures: Lessons from Bangladesh's institutional backsliding

**Presenter:** Michael House

**Advisor:** Arnaud Kurze

**Title:** Social functioning and cognitive flexibility: Facets of flexibility predicting social anxiety symptoms

**Presenter:** Suleina Houston

**Advisor:** Erin Kang

**Co-Presenter(s):** Tali Filstein

**Title:** LGBTQ perspectives on the physical environment

**Presenter:** Adrian Gervasi Humenik

**Advisor:** Greg Pope

**Title:** Theoretical validation of the feasibility of ancient Egyptian monolith

**Presenter:** Omar Ibrahim

**Advisor:** Deborah Chatr Aryamonson

**Title:** The thin blue line of support: Evaluating the role of organizational, supervisor, and coworker support on officer well-being

**Presenter:** Wesley Johnson

**Advisor:** Valerie Sessa

**Title:** Social belonging and anxiety in black adolescents: Outcomes of a culturally adapted school-based intervention

**Presenter:** Luke Kozas

**Advisor:** Samantha Eastwick

**Co-Presenter(s):** Sami Bloom

**Title:** The dichotomy between how the United States and Europe regulate hate speech online

**Presenter:** Sophie Lawrence

**Advisor:** Thomas Loikith

**Title:** Effects of pre-habilitation on recovery time and strength retention in female athletes with ACL tears

**Presenter:** Anthony Malfitano

**Advisor:** Fredrick Gardin

**Title:** Prioritization and color effects on attentional flexibility in working memory

**Presenter:** Allison Marino

**Advisor:** Joshua Sandry

**Co-Presenter(s):** Maria Camilla Estelle-Sandmann, Andrea Alcala, Esma Ertural, Firat Mansuroglu, Haydee Aguilar, Jacklyn Alicea, Nicole Cutaia

**Title:** From trauma to triumph: Transforming through trauma-informed pedagogy

**Presenter:** Alanna Matos

**Advisor:** Milton Fuentes

**Co-Presenter(s):** Yenni Perez

**Title:** Pro self or pro others? The investigation of social value orientation and group satisfaction in group decision making

**Presenter:** Alexandra McGinley

**Advisor:** Michael Bixter

**Title:** Racial/ethnic differences in college student openness to mental health apps

**Presenter:** Michael Medina

**Advisor:** Jazmin Reyes-Portillo

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

**Title:** Understanding gossip in the workplace: The impact of personality and emotional intelligence

**Presenter:** Alessandra Mogrovejo

**Advisor:** Manuel Gonzalez

**Title:** Soliciting judgments of prosodic prominence and boundary from naive listeners in a corpus of African American and Latine English

**Presenter:** Antonio Munera

**Advisor:** Jonathan Howell

**Title:** A bi-directional emotion interaction interface for friendly collaborative robots

**Presenter:** Jordan Murphy

**Advisor:** Rui Li

**Title:** Exploring cognitive flexibility as a key moderator in anxiety and repetitive behavior dynamics

**Presenter:** Fahmida Murshed

**Advisor:** Erin Kang

**Title:** Progressive robot assisted gait therapy post-stroke with Kessler Institute

**Presenter:** Alexis Narine

**Advisor:** Ruth Propper

**Title:** Detecting attacks on a mesh network using anomaly detecting techniques

**Presenter:** Amogh Nellutla

**Advisor:** Christopher Leberknight

**Title:** Pre-service elementary teachers' experience of mathematical modeling with Pac-Man

**Presenter:** Emily Olson  
**Advisor:** Joseph DiNapoli

**Title:** AI-driven snort-based intrusion detection system for cloud networks  
**Presenter:** Harry Owiredun-Ashley  
**Advisor:** Bharath Kumar Samanthula

**Title:** The presence of young children's voices in early years research  
**Presenter:** Mia J. Palombo  
**Advisor:** Elizabeth Erwin  
**Co-Presenter(s):** Laura Adair Clark, Diana Perez, Jesca Jakaa

**Title:** Predicting safe haven regions for helitron transposable elements in centromeric regions of plant genomes using machine learning  
**Presenter:** Regina Park  
**Advisor:** Chunguang Du  
**Co-Presenter(s):** Hee Cheol Kook

**Title:** Assessing options for decarbonization and metal reduction in offshore wind turbines using life cycle analysis  
**Presenter:** Jean Pineda  
**Advisor:** Meghann Smith

**Title:** Cross-task and sequential transfer learning for euphemism detection  
**Presenter:** Whitney Poh  
**Advisor:** Anna Feldman

**Title:** Engagement of libraries in preventing and addressing human trafficking in the state of New Jersey  
**Presenter:** Andrea Raffi  
**Advisor:** Daniela Peterka-Benton

**Title:** Environmental impact of road salt in Boonton, NJ  
**Presenter:** Madison Ray  
**Advisor:** Greg Pope

**Title:** Pronunciation and identity in foreign language speech  
**Presenter:** Kassandra Rinker  
**Advisor:** Anne Edstrom

**Title:** "One nation under God" – Measuring the relationship of the church and state and its impact on LGBTQ Americans  
**Presenter:** Brooke Raughton  
**Advisor:** Jessica Restaino

**Title:** What are the health risks of naturally occurring asbestos (NOA) to the communities in northern New Jersey?

**Presenter:** Danela Sadikaj

**Advisor:** Greg Pope

**Title:** Minority stress and working memory

**Presenter:** Ahmed Salem

**Advisor:** John Wilson

**Title:** Computational study of asphaltene aggregation: Impact of low concentration species

**Presenter:** Lyla Salyani

**Advisor:** Hendrik Eshuis

**Co-Presenter(s):** Kenji Shimizu

**Title:** Stigma and silence: Examining the impact of childhood sexual assault on south Asian adults

**Presenter:** Riya Savalia

**Advisor:** Julian David-Drori

**Title:** She-wolf: An evolution of Roman symbolism

**Presenter:** Andrew Setten

**Advisor:** Deborah Chatr Aryamontri

**Title:** Reforms in law and policy to provide affordable housing solutions

**Presenter:** Mona Wail Shujaieh

**Advisor:** Thomas Loikith

**Title:** Privacy in the digital age: How carpenter applied the fourth amendment to modern America

**Presenter:** Gerard Sona

**Advisor:** Thomas Loikith

**Title:** Unveiling the funerary art of ancient Rome's lower classes

**Presenter:** Alyssa Varga

**Advisor:** Deborah Chatr Aryamontri

**Title:** The efficiency of the inducible cAMP early repressor (ICER) protein in zebrafish as a potential treatment for infertility in humans

**Presenter:** Jefferson Vela

**Advisor:** Carlos Molina

**Title:** Sports teams as multiteam systems

**Presenter:** Frederic Vinal

**Advisor:** Valerie Sessa

**Title:** Game theory in split learning

**Presenter:** Bhuvan Vutukuri

**Advisor:** Chao Huang