



**2024**

# Student Research Symposium

*Promoting Collaboration Across Disciplines*

Friday, April 26<sup>th</sup>  
8:30 am – 3:15 pm  
The Conference Center  
University Hall, 7<sup>th</sup> Floor

HOSTED BY  
The Office of Research

**MONTCLAIR**  
STATE UNIVERSITY

# 2024 Symposium Schedule

Time	Event
8:30 AM	Check-In Opens
8:30 - 9:25 AM	Light Continental Breakfast & Refreshments
9:25 AM	Welcome/Opening Remarks: Stefanie Brachfeld, Ph.D., Acting Vice Provost for Research & President Jonathan Koppell
9:45 AM – 10:45 AM	Poster Session 1
10:50 AM – 11:10 AM	Presentation 1: Jessica Henry, J.D., Professor of Justice Studies <i>“Criminal Justice Reform from the Courtroom to the Classroom”</i>
11:15 AM – 12:15 PM	Poster Session 2
12:20 PM – 12:40 PM	Presentation 2: Tim White, Ph.D., Director of International Academic Initiatives & Stefan Robila, Ph.D., Professor of Computer Science <i>“The Barry Goldwater &amp; Fulbright Scholarships - Merit Based Programs for Undergraduate Students”</i>
12:45 PM – 1:45 PM	Poster Session 3
1:50 PM– 2:10 PM	Presentation 3: Brooke Klinger, Program Associate, International Academic Initiatives <i>“Studying Abroad and Away with Montclair State University”</i>
2:15 PM – 3:15 PM	Poster Session 4



# Acknowledgements

## *The Review Committee*

**Dr. Deepak Bal**, Associate Professor, Mathematics

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

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

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

**Dr. Dana Levitt**, Chairperson, Counseling

**Dr. Sangeeta Parashar**, Associate Professor, Sociology

**Dr. Adam Rzepka**, Associate Professor, English

**Dr. Tanesha Thomas**, Assistant Professor, Sociology

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## *Campus Partners*

### **Career Services**

**College for Community Health** - *Dr. Brad van Eeden-Moorefield with Demonstration of Inter-University Consortium for Political and Social Research database*

### **International Academic Initiatives**

#### **Office of Graduate Admissions**

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

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

#### **The Graduate School**

#### **University Libraries**

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## *Presenters*

**Jessica Henry, J.D.**, Professor of Justice Studies

*“Criminal Justice Reform from the Courtroom to the Classroom”*

**Tim White, Ph.D.**, Director of International Academic Initiatives, & **Stefan Robila, Ph.D.**, Professor of Computer Science

*“The Barry Goldwater and Fulbright Scholarships - Merit Based Programs for Undergraduate Students”*

**Brooke Klinger, M.A.**, Program Associate for Inbound Exchange and Campus Engagement

*“Studying Abroad and Away with Montclair State University”*

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## *The Planning Committee*

**Dr. Stefanie Brachfeld**, Acting Vice Provost for Research, Office of Research

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

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

**Danielle Richardson**, Human Research Protection Program Compliance Analyst, Research Compliance and Regulatory Programs

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

## Poster Session 1: 9:45 AM – 10:45 AM

*(Alphabetical by Presenter's Last Name)*

Peace Adeniyi Idowu - A7  
Hilda Afeku-Amenyo - A24  
Sonya Agnew - A3  
Arif Ahmed - A15  
Charlee Alberta -A 27  
Manuel Arellano - A1  
Jennifer Baldari - A12  
Sara Barenfeld - A20  
Romal Bhullar - A41  
Brianna Bronaugh - A36  
Rae Cade - A54  
Andrew Cadiente - A10  
Michael Camilo - A43  
Hasan Can Biyik - A29  
Jocelyn Carlson - A16  
Janandre Castro - A14  
Shih-Chieh Chien - A50  
Sonia Conde - A40  
Julissa Cuautle - A44  
Catie DeRienzo - A53  
Leah Dolin - A55  
Uchenna Ezichi - A26  
Elijah Gervais - A5  
Anaya Gordon - A18  
Madeleine Gouck - A52  
Amari Hood - A58  
Michael House - A56  
Bayonle Ibukun - A42  
Sarah Krisak - A21  
Madelyn Kwak - A37  
Elaine Les - A9  
Emily Lynch - A33  
Angelique J. Maniego - A2  
Allison Marino - A51  
Dina Matari - A8  
Daisha Mathew - A39  
Calvin Nwosu - A23  
Esteban Ocana - A25  
Patrick Palanca - A59  
Salvatore Paporto - A61  
Caroline Poulis - A32  
Charlene Ramos - A48  
Michaela Reynolds - A49  
Jacob Roby - A57  
Tiffany Rodriguez - A47  
Lenny Roman Jr. - A11  
Karina Rosa - A35  
Amy Rosen - A28  
Mike Rothman - A34  
Maddie Russell - A38  
Meghan Santarelli - A31  
Amy So - A62  
Melissa Spigelman - A19  
Alexia Thanapalasingam- A45  
Tabia Tahsin - A60  
Maya Trajanoska - A4  
Genecis Urena Guzman - A22  
Maggy Val - A46  
Kyle Walsh - A13  
Justin Wheelan - A30  
Karmen Yu - A6

## Poster Session 1: 9:45 AM – 10:45 AM

*(Alphabetical by Presenter's Last Name)*

**Title:** Investigating the Influence of Transnational Family Dynamics and Pandemic-induced Social Isolation on Help-Seeking Behavior Among Asian/American Survivors of IPV  
**Presenter:** Peace Adeniyi Idowu  
**Advisor:** Soyoung Lee

**Title:** Assessing the Relationship between ESG Ratings, Green Bond Issuances, and Firm Financing Practices  
**Presenter:** Hilda Afeku-Amenyo  
**Advisor:** Pankaj Lal

**Title:** The Human Right to a Healthy Environment; Revived by the United States Constitution  
**Presenter:** Sonya Agnew  
**Advisor:** Thomas Loikith

**Title:** Effects of Multiple Stressors on Freshwater Microalgae: A microcosm Assay  
**Presenter:** Arif Ahmed  
**Advisor:** Mathew Schuler

**Title:** The Present Consists of the Past: Analyzing the Arch of Constantine  
**Presenter:** Charlee Alberta  
**Advisor:** Deborah Chatr Aryamontri

**Title:** Does Maze Orientation Influence Turn Alternation Behavior in Terrestrial Isopods?  
**Presenter:** Manuel Arellano  
**Advisor:** Scott Kight  
**Co-Presenter(s):** Katherine Saravia, Karla Gallardo, Ndioro Gueye, Marcos De La Cruz

**Title:** Factors for Implementation of Updated Concussion Protocols in the Secondary School Setting  
**Presenter:** Jennifer Baldari  
**Advisor:** Fredrick Gardin

**Title:** Rebels and Dubliners: Motherhood in Three Irish Texts  
**Presenter:** Sara Barenfeld  
**Advisor:** Lucy McDiarmid

**Title:** Modality Differences in Assessing Static- Extrinsic Spatial Abilities in Individuals with Down Syndrome

**Presenter:** Romal Bhullar

**Advisor:** Jennifer Yang

**Co-Presenter(s):** Matthew Baker

**Title:** TikTok as an Information Source: Content Analysis of the Accuracy of Information in Breastfeeding- Related Videos

**Presenter:** Brianna Bronaugh

**Advisor:** Lauren Dinour

**Title:** Indigenous Communities are Disproportionately Burdened by Environmental Contamination

**Presenter:** Rae Cade

**Advisor:** Cortni Borgerson

**Title:** The Possibility of Gender-Neutral Public Bathrooms Following Bostock v. Clayton County

**Presenter:** Andrew Cadiante

**Advisor:** Thomas Loikith

**Title:** Model-Selection of Proposed Equations of State for Neutron Stars Using Multi-Messenger Astronomy

**Presenter:** Michael Camilo

**Advisor:** Shaon Ghosh

**Title:** Analysis of the Tone and Framing of the LGBTQ+ Community in Turkish Media

**Presenter:** Hasan Can Biyik

**Advisor:** Larissa Goulart da Silva

**Title:** The Importance of Deep Rooted Native Vegetation in Flood Management in Montclair

**Presenter:** Jocelyn Carlson

**Advisor:** Gregory Pope

**Title:** Tracing the Impact of Canadian Wildfires on Air Quality and Communities in the U.S. Northeast

**Presenter:** Janandre Castro

**Advisor:** Gregory Pope

**Title:** Human Population Density and Blue Carbon Stocks in Mangroves Soils  
**Presenter:** Shih-Chieh Chien  
**Advisor:** Jennifer Krumins

**Title:** Visuospatial Perspective Taking in Individuals with Fragile X Syndrome  
**Presenter:** Sonia Conde  
**Advisor:** Jennifer Yang  
**Co- Presenter(s):** Jack Gregory, Joselyn Lopez Moran

**Title:** State and Local Variations in Immigrant Policy Implementation  
**Presenter:** Julissa Cuautle  
**Advisor:** Fanny Lauby-McKinley

**Title:** A Comparative Analysis of Grammatical Complexity in L1 and L2 Student Writing Across Three Communicative Purposes  
**Presenter:** Catie DeRienzo  
**Advisor:** Larissa Goulart da Silva  
**Co- Presenter(s):** Claudia Calderon Reyes

**Title:** A Test of the Generalizability of a New Guilty Plea Decision-making Model Grounded in Fuzzy Trace Theory: A replication of Zottoli, Helm et al. (2023; Study 3)  
**Presenter:** Leah Dolin  
**Advisor:** Tina Zottoli  
**Co- Presenter(s):** Julia Donatien

**Title:** Investigating the Roles of Residue E57 and E219 and Temperature Effects on Mycobacteria Tuberculosis Indole 3 Glycerol Phosphate Synthase Catalysis  
**Presenter:** Uchenna Ezichi  
**Advisor:** Nina Goodey

**Title:** Examining Examining the Relationship between Self-Reported Decision Making Styles and Mind Wandering  
**Presenter:** Elijah Gervais  
**Advisor:** Joshua Sandry  
**Co-Presenter(s):** Rina Tabuchi, Aaliyah Villalba, Suleina Houston, Divya Chanderjit, Michelle Mui

**Title:** Food Waste  
**Presenter:** Anaya Gordon  
**Advisor:** Thomas Loikith



**Title:** Capturing SLP Efforts and Impact Related to Reading: A Matrix  
**Presenter:** Madeleine Gouck  
**Advisor:** Lesley Sylvan

**Title:** The High School to Prison Pipeline: Does Disciplinary Policy in Secondary Education Mirror Enacted Law that Contributes to Mass Incarceration? A Never-Ending Cycle  
**Presenter:** Amari Hood  
**Advisor:** Thomas Loikith

**Title:** Embracing Diversity in Autism Care: Beyond ABA to Meet the Rising Needs  
**Presenter:** Michael House  
**Advisor:** Erin Kang

**Title:** Deep Learning for High-Resolution Precipitation Downscaling: Case Study in New Jersey  
**Presenter:** Bayonle Ibukun  
**Advisor:** Clement Alo

**Title:** How do Simulated Root Exudates affect Soil Microbial Composition in a Barren, Contaminated Soil?  
**Presenter:** Sarah Krisak  
**Advisor:** Nina Goodey  
**Co-Presenter(s):** Leonardo Valer

**Title:** COVID-19 Pandemic Impact on School-Based SLPs, Four Years On  
**Presenter:** Madelyn Kwak  
**Advisor:** Lesley Sylvan

**Title:** Diverse Perspectives: Exploring Peer Role Models Across Racial and Ethnic Backgrounds  
**Presenter:** Elaine Les  
**Advisor:** Miriam Linver  
**Co-Presenter(s):** Alejandra Dussan Vasquez

**Title:** The Utility of the EFCT within the Autism Population  
**Presenter:** Emily Lynch  
**Advisor:** Erin Kang

**Title:** Racial Inequality in Education and The Role of Affirmative Action and Legacy Admissions  
**Presenter:** Angelique J. Maniego  
**Advisor:** Thomas Loikith

**Title:** Classification Systems for Moderate-Severe Traumatic Brain Injury  
**Presenter:** Allison Marino  
**Advisor:** Joshua Sandry

**Title:** Triptolide Induces Apoptosis by Disrupting the Lysosomal Membrane in MCF-7 Cells  
**Presenter:** Dina Matari  
**Advisor:** Reginald Halaby

**Title:** College Students Social Media Use, Time Spent Alone, and Depression/Anxiety Symptoms  
**Presenter:** Daisha Mathew  
**Advisor:** Jazmin Reyes-Portillo

**Title:** Canadian Wildfires and their effect on New Jersey Ecology  
**Presenter:** Calvin Nwosu  
**Advisor:** Gregory Pope

**Title:** MiniBagel and Mooshroom: Two Novel Arthrobacter phage  
**Presenter:** Esteban Ocana  
**Advisor:** Kristen Monsen  
**Co-Presenter(s):** Jhorleny Padilla-Garcia

**Title:** Preventing Hate Crimes Without Violating our Right to Free Speech  
**Presenter:** Patrick Palanca  
**Advisor:** Thomas Loikith

**Title:** The Relationship Between Acceptable Noise Level and Speech Perception in Noise with Extended Bandwidth Hearing Aids in Listeners with Mild to Moderate Hearing Loss  
**Presenter:** Salvatore Paporto  
**Advisor:** Maryrose McInerney

**Title:** Identifying the Presence of Microplastics in Montclair Townships Drinking Water and Natural Bodies of Water  
**Presenter:** Caroline Poulis  
**Advisor:** Gregory Pope

**Title:** Small-Scale Waste Audit To Determine The Percentage of Compostable Waste At MSU  
**Presenter:** Charlene Ramos  
**Advisor:** Gregory Pope

**Title:** The Impact of Humiliation/Rejection on the Social & School Functioning of Autistic and Non-Autistic Youth  
**Presenter:** Michaela Reynolds  
**Advisor:** Erin Kang

**Title:** US-China Relations: Global Geopolitics Hampering Climate Change Cooperation  
**Presenter:** Jacob Roby  
**Advisor:** Arnaud Kurze  
**Co-Presenter(s):** Jenna Cecere

**Title:** The Future Effects of Affirmative Action Through the Lens of Recent Supreme Court Case Decisions  
**Presenter:** Tiffany Rodriguez  
**Advisor:** Thomas Loikith

**Title:** Does Low-level Laser Therapy Reduce Symptoms Early on in Rehabilitation Compared to Other Modalities in Esport Athletes Experiencing Carpal Tunnel Syndrome?  
**Presenter:** Lenny Roman Jr.  
**Advisor:** Fredrick Gardin

**Title:** Synergistic Interactions of Antioxidant Potential of Cannabidiol and Cold Brew Coffee  
**Presenter:** Karina Rosa  
**Advisor:** Adrian Kerrihard

**Title:** The “Proverbial Grey Area:” Generalization and Discharge Criteria  
**Presenter:** Amy Rosen  
**Advisor:** Elaine Hitchcock

**Title:** Does Improved Sleep Quality Have A Positive Effect On Athletic Performance In Adolescent Athletes: A Critically Appraised Topic  
**Presenter:** Mike Rothman  
**Advisor:** Fredrick Gardin

**Title:** Using Artificial Intelligence (AI) to Create Within Speaker Stimuli for Perception Training of Children with RSSD  
**Presenter:** Maddie Russell  
**Advisor:** Elaine Hitchcock

**Title:** Influence of Perceived Listening Effort for Individuals with Aphasia and Apraxia of Speech  
**Presenter:** Meghan Santarelli  
**Advisor:** Kate Nealon  
**Co-Presenter(s):** Julia Pereira

**Title:** The Impact of Technology Use on Adolescent Mental Health Outcomes: The Moderating Role of Age, Race, and Parental Monitoring  
**Presenter:** Amy So  
**Advisor:** Jazmin Reyes-Portillo

**Title:** Tet-On Twist: A Game-Changer in Melanoma Treatment Discovery  
**Presenter:** Melissa Spigelman  
**Advisor:** Carlos Molina

**Title:** Addressing the Issues with Low Income Housing in Montclair New Jersey  
**Presenter:** Alexia Thanapalasingam  
**Advisor:** Gregory Pope

**Title:** Elucidation and Differentiation of Glycan Isomers via Reductive Amination in MS/MS  
**Presenter:** Tabia Tahsin  
**Advisor:** Jinshan Gao

**Title:** The Epidemic of Fast Fashion: An Interdisciplinary Analysis of Harmful Consumer Behavior and the Exploitation of Children in the Fashion Industry  
**Presenter:** Maya Trajanosk  
**Advisor:** Thomas Loikith

**Title:** Cytochrome P450 BM3 E267V and Inhibition  
**Presenter:** Genecis Urena  
**Advisor:** Jaclyn Catalano

**Title:** Molecular Identification of Morphologically Similar Juvenile Cnidarians  
**Presenter:** Maggy Val  
**Advisor:** Kristen Monsen

**Title:** The Relationship Between ACL Injury and Type of Playing Surface in Collision Sports  
**Presenter:** Kyle Walsh  
**Advisor:** Fredrick Gardin

**Title:** Characterization of Transgenic Zebrafish (*Danio rerio*) Lines Expressing Variants of ICER (Inducible cAMP Response Element); Implications for Melanoma Pathogenesis

**Presenter:** Justin Wheelan

**Advisor:** Carlos Molina

**Title:** Students Agentive Participation in the Parallel Spaces of Calculus I Coursework and Peer-led, Complementary Instruction: The Case of Boris

**Presenter:** Karmen Yu

**Advisor:** Steven Greenstein

## Poster Session 2: 11:15 AM – 12:15 PM

*(Alphabetical by Presenter's Last Name)*

Oluwakemi Akanle - B9	Luisanna Marte Olivo - B11
Md Allama Ikbal Sijan - B50	Omayma May Jabara - B7
Rachel Anca - B54	Abhishek Mehta - B2
Briana Argent - BB17	Stephanie Montoya - B43
Susan Arzac - B49	Mohamed Moustafa - B3
Talal Awad - B34	Marya Nemeh - B23
Brianna Badolato - B61	Edileide Oliveira - B28
Nashira Banks-Nesmith - B46	David Pawlik - B18
Gita Bhushal - B1	Camila Pedroza - B5
Kevin Bolen - B16	Sydney Przygoda - B57
Jacob Breaux - B58	Amy Rosen - B29
Wasayef Bsharat - B40	Lixangelys Ruiz - B30
Diana Chauca - B39	Yuma Sanchez Vidal - B15
Julie Chowdhury - B24	Meghan Santarelli - B31
Melanie Cuentas - B19	Xiomara Santos - B36
Ivana Čulić - B37	Svetlana Satch - B25
Eric Dammann - B52	Md Shahnul Islam - B6
Shannon Donohue - B62	Kripa Shrestha - B4
Eshariah Dyson - B59	Weronika Siek - B10
Nayelis Fernandez - B14	Kerima Soobzokov - B60
Gianna Foti - B20	Eric Swanson - B44
Emily Gaffney - B56	Geena Taite - B26
Darren Gonzalez - B42	Peter Tayo - B47
Priyansi Govani - B32	Kay Trumpet - B8
Samantha Graves - B53	Cristian van Rossen - B55
Harold Haynes Jr. - B48	Kevin Vargas - B45
Naomi Jimenez - B13	Francisco Villa - B12
Nurul Kadir - B38	Hailey Wehner - B33
Kasey Kempton - B22	Nicole Wojtkielewicz - B21
Beatrice Kimata - B41	Morgan Wurster - B35
Jillian Krutyansky - B27	Joh'dai Yllanes - B51

## Poster Session 2: 11:15 AM – 12:15 PM

*(Alphabetical by Presenter's Last Name)*

- Title:** Using Virtual Reality (VR) for Simulating Farmland Use Scenarios  
**Presenter:** Oluwakemi Akanle  
**Advisor:** Stefan Robila
- Title:** Using Natural Language Processing to Predict Job Satisfaction and Turnover Intention  
**Presenter:** Md Allama Ikbal Sijan  
**Advisor:** Michael Bixter
- Title:** The Link between Gender, Sexual Orientation, and the Perception of Cheating Behaviors  
**Presenter:** Rachel Anca  
**Advisor:** John Wilson
- Title:** College Students And Their Social Media Use  
**Presenter:** Brianna Argant  
**Advisor:** Sarah Kelly  
**Co-Presenter(s):** Emily Murray, Gabrielle Mitchell, Sydney Grullon
- Title:** Cortical and Subjective Measures of Individual Noise Tolerance  
**Presenter:** Susan Arzac  
**Advisor:** Subong Kim
- Title:** Attaining Certainty: A Rhetorical Analysis of Yaqeen Curriculum Artifacts  
**Presenter:** Talal Awad  
**Advisor:** Jessica Restaino
- Title:** Studying the Use of Politeness in Employment Specific Scenarios in Youth with Autism Spectrum Disorder  
**Presenter:** Brianna Badolato  
**Advisor:** Ruth Propper
- Title:** Do Hormone Changes during the Ovulation-Menstruation Cycle Increase the Risk of ACL Tears?  
**Presenter:** Nashira Banks-Nesmith  
**Advisor:** Fredrick Gardin

**Title:** Influence of Field Trips on Adolescent Environmental Stewardship  
**Presenter:** Gita Bhushal  
**Advisor:** Neeraj Vedwan

**Title:** Catastrophic Power Grid Failure in Montclair Township  
**Presenter:** Kevin Bolen  
**Advisor:** Gregory Pope

**Title:** Development and Validation of the Financial Status Social Comparison Scale  
**Presenter:** Jacob Breaux  
**Advisor:** Michael Bixter  
**Co-Presenter(s):** Marya Nemeh

**Title:** The Impact of Autism Diagnosis on Stigma: Parent-Reported Autism Traits and Stigma Experiences in Underrepresented Ethno-Racial Minority Groups  
**Presenter:** Wasayef Bsharat  
**Advisor:** Erin Kang

**Title:** Cardiac/Diabetes Story  
**Presenter:** Diana Chauca  
**Advisor:** Ann Dilorenzo  
**Co-Presenter(s):** Kingsley Maduka, Jeff Yumbla

**Title:** Understanding the Lived Experiences of Returning Citizens  
**Presenter:** Julie Chowdhury  
**Advisor:** Jason Williams  
**Co-Presenter(s):** Erin Scott, Kamalika Vora

**Title:** The Effects of Drug Use on GPA between Genders  
**Presenter:** Melanie Cuentas  
**Advisor:** Sarah Kelly  
**Co-Presenter(s):** Olivia Elms, Camille Adrien, Camille Pierre

**Title:** Relationship Between Self-Reported Vaping Behavior and Balance Performance in College Students  
**Presenter:** Ivana Čulić  
**Co-Presenter(s):** Luis Torres

**Title:** Quantifying Methane Emissions in Tidal Marshes: Insights from a Morphodynamic Model  
**Presenter:** Eric Dammann  
**Advisor:** Jorge Lorenzo Trueba



**Title:** Social Media & GPA  
**Presenter:** Shannon Donohue  
**Advisor:** Patricia McGaughey  
**Co-Presenter(s):** Catherine Jiminez, Gianna Wade, Marvine Leslie, Kailey Bonarowicz

**Title:** Microscale Changes in Metal Speciation through Soil Depth  
**Presenter:** Eshariah Dyson  
**Advisor:** Nina Goodey

**Title:** Exploring Legal Standards and Judicial Interpretation of International Child Abduction in India  
**Presenter:** Nayelis Fernandez  
**Advisor:** Thomas Loikith

**Title:** Safe Sex Practices Among College Students  
**Presenter:** Gianna Foti  
**Advisor:** Sarah Kelly  
**Co-Presenter(s):** Caitlin Prior, Kimberly Limbo, Jessica Tattersall, Gabrielle D'Antonio

**Title:** Colors of Music: A Case Study on Music Therapy's Efficacy on Emotion Identification and Regulation with Adults with Intellectual and Developmental Disabilities  
**Presenter:** Emily Gaffney  
**Advisor:** Brian Abrams

**Title:** BFR Use for Post-ACL Reconstruction Surgical Rehabilitation in Adolescents  
**Presenter:** Darren Gonzalez  
**Advisor:** Fredrick Gardin

**Title:** Next Generation Sequencing of Putative Ranavirus Specific DNA Aptamers  
**Presenter:** Priyansi Govani  
**Advisor:** Nina Goodey

**Title:** Lesbophobia Through Pornography and the Patriarchy  
**Presenter:** Samantha Graves  
**Advisor:** John Wilson

**Title:** Random Graphs from the Oriented Swap Process  
**Presenter:** Harold Haynes Jr.  
**Advisor:** Deepak Bal  
**Co-Presenter(s):** Lana Saadeddin

**Title:** Prison Privatization in the Era of Mass Incarceration  
**Presenter:** Naomi Jimenez  
**Advisor:** Thomas Loikith

**Title:** Complex Pattern of Sediment Erosion and Deposition under Sea-Level Changes: Insights from a Coupled Stratigraphic Experiments and Numerical Modelling for Fluvio-Deltaic Evolution  
**Presenter:** Nurul Kadir  
**Advisor:** Jorge Lorenzo Trueba

**Title:** Health Center Use  
**Presenter:** Kasey Kempton  
**Advisor:** Patricia McGaughey

**Title:** Examining Validity of Three Self-Report Measures of Criminogenic Risk  
**Presenter:** Beatrice Kimata  
**Advisor:** Chistopher King

**Title:** Substance Use Treatment Practitioners' Levels of Homonegativity, Binegativity, and Transnegativity and their Correlates  
**Presenter:** Jillian Krutyansky  
**Advisor:** Sara Matsuzaka

**Title:** Factors That Predict Treatment Use Among Latinx College Students  
**Presenter:** Luisianna Marte Olivo  
**Advisor:** Jazmin Reyes-Portillo

**Title:** Bettering the Medical Humanities Through the Integration of Sociolinguistics: An Interdisciplinary Approach  
**Presenter:** Omayma "May" Jabara  
**Advisor:** Zachary Zerby

**Title:** Grocery Goliaths Clash: The Secret Showdown of Two Retail Titans in the Covid Era!  
**Presenter:** Abhishek Mehta  
**Advisor:** Patrali Mukhopadhyay  
**Co-Presenter(s):** Ayushi Pandey

**Title:** Characterization of 2 um Faraday Isolators  
**Presenter:** Stephanie Montoya  
**Advisor:** Rodica Martin

**Title:** Effect of Acutely-Induced Stress on Lower Extremity Power in Healthy College Students

**Presenter:** Mohamed Moustafa

**Advisor:** Luis Torres

**Title:** Exploring Motivational Interviewing with Perpetrators of Intimate Partner Violence: A Literature Review

**Presenter:** Marya Nemeh

**Advisor:** Milton Fuentes

**Co-Presenter(s):** Kiara Padmore, Michelle M. Truffin, Heather Hernandez-Mozz, Nayeli Dume, Carlos Rodriguez, Cristhian Bueso

**Title:** Rank Ordering Personal Resources for Work Ability in the Health and Retirement Study

**Presenter:** Edileide Oliveira

**Advisor:** Rick Laguerre

**Title:** Utilization of University Health Center among Residential & Commuter Students

**Presenter:** David Pawlik

**Advisor:** Sarah Kelly

**Co-Presenter(s):** Megan Carter, Juliana Cerqueira, Joy Lytch

**Title:** Dynamic Impact of Active LTR Retrotransposons on Maize Genome Evolution

**Presenter:** Camila Pedroza

**Advisor:** Chunguang Du

**Title:** The Role of Executive Functioning as a Moderator to the Relationship between Overcontrol and Anxiety

**Presenter:** Sydney Przygoda

**Advisor:** Erin Kang

**Title:** Everyday Discrimination and Major Discrimination Experienced by People who Stutter

**Presenter:** Amy Rosen

**Advisor:** Michael Boyle

**Title:** Abortion and The Constitutional Right to Travel

**Presenter:** Lixangelys Ruiz

**Advisor:** Thomas Loikith

**Title:** Measuring The Effects of Sugar On Hydrogen Bonding In Water Through Infrared Spectroscopy

**Presenter:** Yuma Sanchez Vidal

**Advisor:** Johannes Schelvis

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

**Title:** Using Education to Destigmatize Disability through Media in Pediatric Rehabilitation

**Presenter:** Meghan Santarelli

**Advisor:** Kate Nealon

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

**Title:** Water Soluble Fluorescent Sensors for Cations

**Presenter:** Ziomara Santos

**Advisor:** Saliya Desilva

**Title:** The Battles the United States Criminal Justice System Will Face with the Integration of Artificial Intelligence

**Presenter:** Svetlana Satch

**Advisor:** Thomas Loikith

**Title:** Linking Trace Metal Mobility in Water, Sediment, and Edible Aquatic Species to Human Health Risks

**Presenter:** Md Shahnul Islam

**Advisor:** Huan Feng

**Title:** Offshore Wind Development and Associated Impact on Recreational Fisheries in New Jersey: A Socio-spatial Approach

**Presenter:** Kripa Shrestha

**Advisor:** Pankaj Lal

**Title:** Crystalline Research on Cobalt(II) and Nickel(II) Quasiracemates Containing Chiral 4-X-Benzoylalanines

**Presenter:** Weronika Siek

**Advisor:** Mark Whitener

**Co-Presenter(s):** Cristian Gallardo

**Title:** Ligand Binding Interactions of M. Tuberculosis Indole-3-Glycerol Phosphate Synthase

**Presenter:** Kerima Soobzokov

**Advisor:** Nina Goodey

**Title:** Quantitative Analysis of Proton Content in Deuterated Poly(methyl methacrylate) for Thin Neutron Window Material Selection in Ultra-cold Neutron Experiments

**Presenter:** Eric Swanson

**Advisor:** Kent Leung

**Title:** Evolving Teacher Pedagogy Through Implementation of Mathematical Modeling and Participation in Responsively Designed Professional Development

**Presenter:** Geena Taite

**Advisor:** Joseph DiNapoli

**Title:** Building Genomic Resources for Arctic Fishes

**Presenter:** Peter Tayo

**Advisor:** Kevin Bilyk

**Title:** Mental Health and Psychological Readiness: A Systematic Narrative Review

**Presenter:** Kay Trumpet

**Advisor:** Fredrick Gardin

**Title:** Geoheritage of Montclair Township, New Jersey: How Geology Has Shaped Montclair

**Presenter:** Cristian van Rossen

**Advisor:** Gregory Pope

**Title:** Innovating Wind Energy: Analyzing the Efficiency and Performance of Vertical Axis Wind Turbines

**Presenter:** Kevin Vargas

**Advisor:** Ashuwin Vaidya

**Title:** Developing 240 Spanish Word Pair Stimuli for a Psycholinguistic Experiment

**Presenter:** Francisco Villa

**Advisor:** Lauren Covey

**Title:** Effective Communication Strategies for Waste Management in Montclair Township

**Presenter:** Hailey Wehner

**Advisor:** Gregory Pope

**Title:** Missed Healthcare Opportunities

**Presenter:** Nicole Wojtkielewicz

**Advisor:** Patricia McGaughey

**Co-Presenter(s):** Briseyda Roman, Melanie Cordova, Ashley Lucas

**Title:** Literacy Instruction in Preschools and Kindergartens  
**Presenter:** Morgan Wurster  
**Advisor:** Robyn Becker

**Title:** The Effect of Government Regulations and Supervisions Through Social  
Social Media on Human Privacy Rights and Psychology  
**Presenter:** Joh'dai Yllanes  
**Advisor:** Thomas Loikith

## Poster Session 3: 12:45 PM – 1:45 PM

*(Alphabetical by Presenter's Last Name)*

Fayza Abbasi - C31  
Pamela Abua - C42  
Onike Achee - C59  
Reem Ahmad - C44  
Laura Alexandre - C13  
Imaari Andrews - C20  
Janine Ang - C6  
Sophia Avila - C5  
Diana Bachiller - C28  
Chrisnaelle Beaucejour - C9  
Arohi Birari - C45  
Jacob Breaux - C57  
Inna Bruter - C35  
Perla Citlali Huerta - C19  
Denis Cook - C43  
Magen Daniela Malka - C36  
Cameron Darvish - C39  
Gianella Diaz - C38  
Waleed Elhelbawi - C7  
Sarah Estupinan Jimenez - C41  
Nicole Fontes - C32  
Monika Ghimire - C17  
Hrisa Goga - C30  
Kimberly Gonzalez - C56  
Sydni Hebert - C48  
Citlaly Hernandez - C1  
Oriannys Infante - C23  
Fabricio Justiniano - C15  
CJ Knoble - C47  
Nicolina Lentine - C53  
Ranju Mainali - C18  
Kylie Martin - C3  
Zachary McParland - C8  
Lexi Merring - C25  
Marisa Messina - C4  
Crystal Montero - C2  
Emma Morgan - C37  
Teddy Morra - C21  
Jordan Murphy - C49  
Taylor Myer - C27  
Chetsi Patel - C16  
Isyss Perez - C33  
Kholilur Rahman - C12  
Regina Rasmusson - C46  
Stephanie Salmento - C58  
Su San Lim - C 24  
Farid Sawaqed - C51  
Isabella Scalcione - C40  
Viola Shabani - C11  
Nour Shalash - C50  
Gianella Solorzano - C26  
Anastasios Stamatou - C55  
Sara Stavely - C29  
Rina Tabuchi - C52  
Cristian van Rossen - C54  
Jackie Wilhelm - C14  
Lianne Wilson - C22  
Naima Zaheer - C34

## Poster Session 3: 12:45 PM – 1:45 PM

*(Alphabetical by Presenter's Last Name)*

**Title:** Is there a Relationship between Theory of Mind and the Number of Leadership Roles a Person Holds?

**Presenter:** Fayza Abbasi

**Advisor:** Laura Lakusta

**Co-Presenter(s):** Becca Kaufman

**Title:** An Analysis of Digital Government Surveillance from the Legal and Sociological Perspectives

**Presenter:** Pamela Abua

**Advisor:** Thomas Loikith

**Title:** Road Salt Contamination in Freshwater Systems

**Presenter:** Onike Achee

**Advisor:** Gregory Pope

**Title:** Differences in Social Behavior Within Neurodiverse Youth

**Presenter:** Reem Ahmad

**Advisor:** Erin Kang

**Title:** Inhibition of Dihydrofolate Reductase from *W. Bancrofti*

**Presenter:** Laura Alexandre

**Advisor:** Nina Goodey

**Title:** Causes of Increased Mass Shootings in the U.S.

**Presenter:** Imaari Andrews

**Advisor:** Thomas Loikith

**Title:** Biopsychosocial Predictors of Social Emotional Functioning in Children of Mothers with and without Low Intellectual Functioning

**Presenter:** Janine Ang

**Advisor:** Wendy Zeitlin

**Title:** Progress on Evaluating Inhibition of Indole-3-Glycerol Phosphate Synthase from *M. tuberculosis* by rCdRP and rCdRP Analogs

**Presenter:** Sophia Avila

**Advisor:** David Konas

**Co-Presenter(s):** Brandon Spratt



**Title:** Warming Waters, Blooming Dangers: The Surge of Toxic Algal Blooms in Montclair, NJ's Freshwater Ecosystems

**Presenter:** Diana Bachiller

**Advisor:** Gregory Pope

**Title:** Role of E267 in Proton Transfer

**Presenter:** Chrisnaelle Beaucejour

**Advisor:** Jaclyn Catalano

**Title:** Behavioral Thermoregulation in Terrestrial Isopods

**Presenter:** Arohi Birari

**Advisor:** Scott Kight

**Co-Presenter(s):** Mehjabin Begum, Ndioro Gueye

**Title:** The Influence of Judgmental Biases in Teams vs. Individuals

**Presenter:** Jacob Breaux

**Advisor:** Michael Bixter

**Title:** Relationship between Adult Acquired Stuttering and Motor Speech: a Case Study

**Presenter:** Inna Bruter

**Advisor:** Kate Nealon

**Title:** Breaking Ranavirus: Unraveling Aptamer-Protein Interactions for Rapid Test Development

**Presenter:** Perla Citlali Huerta

**Advisor:** Nina Goodey

**Title:** Working Toward a Spectrum of Collegiality to Describe Mathematics Teacher Learning in a Community of Practice

**Presenter:** Denis Cook

**Advisor:** Joseph DiNapoli

**Co-Presenter(s):** Amy Daniel, Helene Leonard

**Title:** Bilateral/Unilateral Stimulation and Susceptibility to Persuasion

**Presenter:** Magen Daniela Malka

**Advisor:** Ruth Propper

**Co-Presenter(s):** Magen Daniela, Malka Teasley

**Title:** Preparation and Characterization of PEDOT:PSS/CNT Blends for Light Addressable Electrochemical Sensing.

**Presenter:** Cameron Darvish

**Advisor:** Glen O'Neil

**Title:** United States Immigration Detention Centers: Enduring Inhumane Treatment and Abuse for the American Dream

**Presenter:** Gianella Diaz

**Advisor:** Thomas Loikith

**Title:** Assessment Tool Evaluation in the Recovery of Adolescent Athletes from Sports-Related Concussions: A Critical Appraisal

**Presenter:** Waleed Elhelbawi

**Advisor:** Fredrick Gardin

**Title:** Testing Thin Scintillating Polarized Targets

**Presenter:** Sarah Estupinan Jimenez

**Advisor:** Kent Leung

**Title:** Comparison of Caregiver-reported Dietary Intake Methods in Zellweger Spectrum Disorder

**Presenter:** Nicole Fontes

**Advisor:** Mousumi Bose

**Title:** Late Glacial and Holocene Climate Variability of the Southern Tibetan Plateau Based on a High-Resolution Grain Size Record in Lake Peiki Co.

**Presenter:** Monika Ghimire

**Advisor:** Sandra Passchier

**Title:** Injuries, Trauma, and Death in the Iliad: A Realistic Account or Exaggeration?

**Presenter:** Hrisa Goga

**Advisor:** Prudence Jones

**Title:** Service Robots in Tourism and Hospitality

**Presenter:** Kimberly Gonzalez

**Advisor:** Yawei Wang

**Title:** Exploration of Resources Women Use to Seek Food and Nutrition Information During Pregnancy

**Presenter:** Sydni Hebert

**Advisor:** Renata Blumberg

**Title:** Investigating the Role of N189 in M.tuberculosis IGP Synthase and Experimental IC50 results of rCdRP and D-ribose phosphate

**Presenter:** Citlaly Hernandez

**Advisor:** Nina Goodey

**Title:** Importance of a Conserved Acidic Residue in Cytochrome P450  
**Presenter:** Oriannys Infante  
**Advisor:** Jaclyn Catalano  
**Co-Presenter(s):** Chrisnaelle Beaucejour

**Title:** Denaturation of pH-dependent CRY-DASH Protein  
**Presenter:** Fabricio Justiniano  
**Advisor:** Yvonne Gindt

**Title:** Don't Let Lead Lead on Environmental Justice  
**Presenter:** CJ Knoble  
**Advisor:** Danlin Yu

**Title:** Comparing Coastal Soil Functions across Natural and Artificial Salinity Gradients  
**Presenter:** Nicolina Lentine  
**Advisor:** Nina Goodey

**Title:** Impact of Gentrification on the Health Status of the Adults in New Jersey  
**Presenter:** Ranju Mainali  
**Advisor:** Sze Yan Liu

**Title:** Mountaintop Removal Mining in Central Appalachia: Public Health and Legal Perspectives  
**Presenter:** Kylie Martin  
**Advisor:** Thomas Loikith

**Title:** Balancing Bruen and Public Safety  
**Presenter:** Zachary McParland  
**Advisor:** Thomas Loikith

**Title:** Brewing Disobedience with a Tea Set  
**Presenter:** Lexi Merring  
**Advisor:** Steffi Dippold

**Title:** Determining the Role of E267: Proton Transfer or Substrate Selectivity  
**Presenter:** Marisa Messina  
**Advisor:** Jaclyn Catalano

**Title:** Investigating the Rate-limiting Step of Indole-3-glycerol Phosphate Synthase  
**Presenter:** Crystal Montero  
**Advisor:** Nina Goodey

**Title:** Infant Safe Haven Laws: A Study About Knowledge, Attitudes, and Experiences Among Montclair State University Students  
**Presenter:** Emma Morgan  
**Advisor:** Emily Douglas  
**Co-Presenter(s):** JoseCarlos Aguilar, Leticia Sanchez

**Title:** MIACDrive: A 3D Simulation of Driving in Urban and Rural Environments for Studies on Intelligent Vehicles  
**Presenter:** Teddy Morra  
**Advisor:** Rui Li

**Title:** An Emotion-based Interactive 3D Digital Human for Enhancing a Friendly Human-Robot Collaboration  
**Presenter:** Jordan Murphy  
**Advisor:** Rui Li

**Title:** Reducing Waste, One Bin at a Time: Strategies and Challenges in Community Trash Separation Initiatives  
**Presenter:** Taylor Myer  
**Advisor:** Gregory Pope

**Title:** Thermodynamic Stability of DNA photolyase  
**Presenter:** Chetsi Patel  
**Advisor:** Yvonne Gindt

**Title:** Investigating the Role of Residues E57 and E168 in M. Tuberculosis IGP Synthase Catalysis  
**Presenter:** Isyss Perez  
**Advisor:** Nina Goodey

**Title:** Trafficking Small Palmitoylated Peptide between the Supported Lipid Bilayer and a Giant Unilamellar Vesicle  
**Presenter:** Kholilur Rahman  
**Advisor:** Il Hyung Lee

**Title:** The Effect of Stormwater Runoff on PFOA Concentrations in Passaic River Tributaries and the Role of Stormwater Management  
**Presenter:** Regina Rasmusson  
**Advisor:** Gregory Pope

**Title:** The Effect of Plea Discount on Mock Defendant's Rating of Probability of Conviction and Plea Decisions

**Presenter:** Stephanie Salmento

**Advisor:** Tina Zottoli

**Title:** Transformative Learning through International Research Experiences

**Presenter:** Su San Lim

**Advisor:** Mikako Munakata

**Title:** Kitchen Trials VR: A VR Cooking Game for Kids

**Presenter:** Farid Sawaqed

**Advisor:** Rui Li

**Co-Presenter(s):** Oswald Sturtevant

**Title:** First Amendment Rights in the Media

**Presenter:** Isabella Scalcione

**Advisor:** Thomas Loikith

**Title:** Gene Expression of Shival Phages Terminase Gene

**Presenter:** Viola Shaban

**Advisor:** Quinn Vega

**Title:** Immune Toll-like Receptor Signaling Modulates C.elegans Feeding Behavior

**Presenter:** Nour Shalash

**Advisor:** Christos Suriano

**Co-Presenter(s):** Retwika Ganguly

**Title:** United States and Norwegian Prison Systems

**Presenter:** Gianella Solorzano

**Advisor:** Thomas Loikith

**Title:** Empathy Crisis at the Southern Border

**Presenter:** Anastasios Stamatiou

**Advisor:** Thomas Loikith

**Title:** The Impact of Social Support and Bereavement in the Workplace

**Presenter:** Sara Stavely

**Advisor:** Cheryl Gray

**Title:** The Impact of Music-Based Interventions on the Psychiatric and Psychological Outcomes of Traumatic Brain Injury: A Systematic Review

**Presenter:** Rina Tabuchi

**Advisor:** Joshua Sandry

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

**Title:** Brief Mineralogical Analysis of the McAfee Quarries, Vernon Township, New Jersey

**Presenter:** Cristian van Rossen

**Advisor:** Mathew Gorring

**Title:** Inhibition and Structural Determination of Dihydrofolate Reductase for Targeting Lymphatic Filariasis

**Presenter:** Jackie Wilhelm

**Advisor:** Nina Goodey

**Title:** The Future of Abortion in America and Beyond

**Presenter:** Lianne Wilson

**Advisor:** Thomas Loikith

**Title:** Examining the Role of Different Groups of Root Exudates in Metal-contaminated Soil

**Presenter:** Naima Zaheer

**Advisor:** Nina Goodey

## Poster Session 4: 2:15 PM – 3:15 PM

*(Alphabetical by Presenter's Last Name)*

Shibbir Ahmed - D41  
Dominick Altamura - D21  
Busra Anil - D14  
Mar Arroyo Cabrera - D50  
Kayla Baxter -D7  
Jizette Bayron - D25  
Cristian C. Noriega M. - D15  
Angela Castillo - D55  
Zaima Chowdhury - D36  
Sophia Civitella - D23  
Willow DeFilippo - D60  
Autym Dymarczyk -D 20  
Juliet Eckert - D3  
Zack Epright - D40  
Carlos Fonseca - D32  
James Franco -D9  
Joseph Garcia -D52  
Laila Garrett - D38  
Hrisa Goga - D30  
Mikayla Haas -D53  
Renzo Herrera - D56  
Emilio Herrera - D58  
Marta Jancic - D47  
Eliana Jaquez - D4  
Yousef Khatib - D10  
Salma Kwarteng - D11  
Jinna Loor - D26  
Kylie Martin - D2  
Nadia Masood - D37  
Payton McHugh - D43  
Alanna Mendoza - D8  
Garrett Modery - D49  
Alessandra Mogrovejo - D57  
Natie Munoz - D16  
Gena Murphy - D44  
Naomi Nguyen - D39  
Gillian O'Donnell -D45  
MJ Palombo - D51  
Jesse Parron -D48  
Adam Personette -D59  
Ben Polk - D33  
Monica Rolon - D42  
Josh Rota Tebb - D46  
Nichole Sanchez -D1  
Collin Sherman - D28  
Sarahana Shrestha - D17  
Christian Smith - D31  
Stephanie Spitz - D27  
Richard Steiner-Otoo - D18  
Alyssa Sukra - D34  
Hala Suliman - D13  
Kawsar Tasnim - D5  
Alejandro Trevino - D35  
Carlene Topoleski - D61  
Andrea Uguna - D19  
Ingrid Veloso - D22  
Cole Vitelli - D24  
Maxim Vladimir Lyons - D6  
Janyce Wowk - D54  
Nardin Yacoub - D29  
Jyoti Yadav - D12

**Title:** Demo: Accelerating Patient Screening for Clinical Trials using Large Language Model Prompting

**Presenter:** Shibbir Ahmed

**Advisor:** Hao Liu

**Co-Presenter(s):** Anand Gopeekrishnan

**Title:** Active LTR Retrotransposons Shaping the Dynamic Evolution of Maize Genomes

**Presenter:** Dominick Altamura

**Advisor:** Chunguang Du

**Co-Presenter(s):** Taylor Isles

**Title:** Enhancing Water Quality through GIS: Transforming Impervious Surfaces to Combat Nitrate Pollution in Montclair, NJ

**Presenter:** Busra Anil

**Advisor:** Gregory Pope

**Title:** The Spanish Mission Revival Architecture of The Montclair State University Campus

**Presenter:** Mar Arroyo Cabrera

**Advisor:** Teresa Fiore

**Title:** Analyzing Flood Impacts for Possible Threats to Drinking Water Quality in Montclair, NJ

**Presenter:** Kayla Baxter

**Advisor:** Gregory Pope

**Title:** Influence of Training Type on Verb Learning in Young Children

**Presenter:** Jizette Bayron

**Advisor:** Laura Lakusta

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

**Title:** Analysis of Power Plant Energy Generation in the United States using Machine Learning and Geographic Information System (GIS)

**Presenter:** Cristian C. Noriega M.

**Advisor:** Aparna Varde

**Title:** Examining the Relationship Between Profiles of Anxiety and IQ

**Presenter:** Angela Castillo

**Advisor:** Erin Kang



**Title:** Purification Protocol for Rana Virus GST-Major Capsid  
**Presenter:** Zaima Chowdhury  
**Advisor:** Nina Goodey

**Title:** A Comparative Study of Arsenic Concentrations in Montclair's "Natural" and "Traditional" Lawns  
**Presenter:** Sophia Civitella  
**Advisor:** Gregory Pope

**Title:** Parent-Child Agreement on Magnitude of Anxiety in Autistic vs. Non-Autistic Children  
**Presenter:** Willow DeFillippo  
**Advisor:** Erin Kang

**Title:** Balancing Mental Health and the Second Amendment: Examining the Right to Bear Arms for Individuals with Nonpsychotic Mental Disorders  
**Presenter:** Autym Dymarczyk  
**Advisor:** Thomas Loikith

**Title:** From High School to High Leader Self Efficacy: Unraveling the Early Leadership Development Journey  
**Presenter:** Juliet Eckert  
**Advisor:** Valerie Sessa  
**Co-Presenter(s):** Celine Williams

**Title:** Development of Partially Illuminated Light Addressable Electrochemical Sensors to Detect in vitro Catecholamine Neuromodulator Release  
**Presenter:** Zack Epright  
**Advisor:** Glen O'Neil

**Title:** A Geospatial Analysis of Impermeable Surfaces and Stormwater Runoff  
**Presenter:** Carlos Fonseca  
**Advisor:** Gregory Pope

**Title:** Synthesis of Nitrosulfones Utilizing Enantioselective Catalysts  
**Presenter:** James Franco  
**Advisor:** Magnus Bebbington

**Title:** Analyzing Parking's Effect on Property Value along Bloomfield Avenue  
**Presenter:** Joseph M. Garcia  
**Advisor:** Gregory Pope

**Title:** Kyle Abraham's A.I.M Toward Social Connectivity Through Dance  
**Presenter:** Laila Garrett  
**Advisor:** Elizabeth McPherson

**Title:** Functional Analysis of Putative RNase E Protein Isolated from the Bacteriophage ShiVal  
**Presenter:** Hrisa Goga  
**Advisor:** Quinn Vega

**Title:** Ecological Validity of Virtual Reality (VR) to Assessing Spatial Navigation in children: A Preliminary Analysis  
**Presenter:** Mikayla Haas  
**Advisor:** Jennifer Yang  
**Co-Presenter(s):** Noor Alalwan, Maria Percy Estrada, Michelle Lopez

**Title:** Interferometric Investigations of the Thermo-Optic Properties of Materials for High-Laser-Power Applications  
**Presenter:** Renzo Herrera  
**Advisor:** Rodica Martin

**Title:** Human-Robot Collaboration Through Personalized Task Learning in Multi-Robot Contexts  
**Presenter:** Emilio Herrera  
**Advisor:** Weitian Wang

**Title:** Alkyl Tosylates and Iodides as Reactive Partners with Low Valent Pd Complexes  
**Presenter:** Marta Jancic  
**Advisor:** Nathanael Hirscher

**Title:** Green Space in Montclair Township  
**Presenter:** Eliana Jaquez  
**Advisor:** Gregory Pope

**Title:** Neurotransmitter Measurement: Implementing Aptamers with LAES  
**Presenter:** Yousef Khatib  
**Advisor:** Glen O'Neil

**Title:** Crystallization of Wuchereria Bancrofti Dihydrofolate Reductase in Complex with Methotrexate  
**Presenter:** Salma Kwarteng  
**Advisor:** Nina Goodey

**Title:** A Speech and Facial Information based Emotion Recognition System of Collaborative Robot for Empathic Human-Robot Collaboration

**Presenter:** Jinna Loor

**Advisor:** Rui Li

**Title:** The Impact of Underground Storage Tanks on Public Health in Montclair Township, NJ

**Presenter:** Kylie Martin

**Advisor:** Gregory Pope

**Title:** Structural Modification Of Phenanthroline Compound

**Presenter:** Nadia Masood

**Advisor:** Nathanael Hirscher

**Title:** The Quest for Justice During Political Change: Mapping Global Youth Activism

**Presenter:** Payton McHugh

**Advisor:** Arnaud Kurze

**Co-Presenter(s):** Peace Adeniyi-Idowu

**Title:** Analyzing the Linguistic Characteristics of Undergraduate Student Writing and AI Generated Assignments

**Presenter:** Alanna Mendoza

**Advisor:** Larissa Goulart da Silva

**Title:** A Multifaceted User Study for the Teaching-Learning-Prediction-Collaboration Framework in Human-Robot Collaborative Tasks

**Presenter:** Garrett Modery

**Advisor:** Weitian Wang

**Title:** Navigating Construct Proliferation in Organizational Bonds Literature: A Comparative Meta-Analysis

**Presenter:** Alessandra Mogrovejo

**Advisor:** Valerie Sessa

**Co-Presenter(s):** Wesley Johnson, Nelsy Paulino, Sara Stavely

**Title:** Title IX: The Debate over Cross-Examination

**Presenter:** Natalie Munoz

**Advisor:** Thomas Loikith

**Title:** Predictive Performance of a Self-Report Adaption of a Criminogenic Risk Assessment Tool

**Presenter:** Gena Murphy

**Advisor:** Christopher King

**Title:** Individual and Contextual Determinants of Complete Infant Vaccination: A Comparative Study of Bangladesh and Pakistan Using the DHS, 2017-18

**Presenter:** Naomi Nguyen

**Advisor:** Sangeeta Parashar

**Co-Presenter(s):** Shahan Ahmed

**Title:** Mitigating the Effects of Climate Change on Underserved Communities in Montclair and Orange, NJ

**Presenter:** Gillian O'Donnell

**Advisor:** Gregory Pope

**Title:** Community-Linked Field Experience Pilot

**Presenter:** MJ Palombo

**Advisor:** Mayida Zaal

**Title:** Characterization of Human Trust in Robot through Multimodal Physical and Physiological Biometrics in Human-Robot Partnerships

**Presenter:** Jesse Parron

**Advisor:** Weitian Wang

**Title:** Commodus: The Tyrant Hercules

**Presenter:** Adam Personette

**Advisor:** Deborah Chatr Aryamontri

**Title:** An Explanation of Existential Risks and How Law Could Save the World

**Presenter:** Ben Polk

**Advisor:** Thomas Loikith

**Title:** Artificial Intelligence in the Practice of Law

**Presenter:** Monica Rolon

**Advisor:** Thomas Loikith

**Title:** Indigenous Queer Spaces: Mapping Polynesian and American Voices and Traditions

**Presenter:** Josh Rota-Tebb

**Advisor:** Arnaud Kurze

**Co-Presenter(s):** Yukary Lozada

**Title:** Effects of the Computerized Biofeedback-based Balance Intervention on the Corticocortical Functional Connectivity in Individuals with Traumatic Brain Injury

**Presenter:** Nichole Sanchez

**Advisor:** Ruth Propper

**Title:** Servant Leadership and Theory of Mind

**Presenter:** Collin Sherman

**Advisor:** Laura Lakusta

**Title:** Policy Changes and Public Opinion Towards Solar Energy in New Jersey

**Presenter:** Sarahana Shrestha

**Advisor:** Aparna Varde

**Title:** Comparing Biofeedback to Medication for Adults with Generalized Anxiety Disorder: A Literature Review

**Presenter:** Christian Smith

**Advisor:** Milton Fuentes

**Co-Presenter(s):** Heather Hernandez-Mozz, Kiara Padmore, Michelle M. Truffin

**Title:** Weight Based Discrimination

**Presenter:** Stephanie Spitz

**Advisor:** Blanca Vega

**Title:** Assessment of Microplastic Pollution in Montclair's Aquatic Sediments

**Presenter:** Richard J. Steiner-Otoo

**Advisor:** Gregory Pope

**Title:** Advancing Functional Recovery Post Stroke Using Rehabilitation Robotics

**Presenter:** Alyssa Sukra

**Advisor:** Ruth Propper

**Title:** The Effect of EGCG on Arthrobacter sp. Phage Infection

**Presenter:** Hala Suliman

**Advisor:** Quinn Vega

**Title:** Preparation and Characterization of PEDOT:PSS/CNT Blends for Light Addressable Electrochemical Sensing

**Presenter:** Kawsar Tasnim

**Advisor:** Glen O'Neil

**Co-Presenter(s):** Selena Dahdouh

**Title:** Synthesis and Characterization of the Structure of Neutral Flavin Radicals in Solution

**Presenter:** Alejandro Trevino

**Advisor:** Johannes Schelvis

**Title:** Professional Golf Attendance: A Sport Identification and Country-of-Origin Examination

**Presenter:** Carlene Topoleski

**Advisor:** Joshua Lupinek

**Title:** Determinants of WIC Participant Retention: A Case in New Jersey

**Presenter:** Andrea Uguna

**Advisor:** Yeon Bai

**Title:** Using Machine Learning to Classify Discipline and Text Type in University Writing

**Presenter:** Ingrid Veloso

**Advisor:** Larissa Goulart da Silva

**Title:** Student Club Advisors - Ready, Willing, But Not Able: Lessons Learned From Montclair Club Advisors

**Presenter:** Cole Vitelli

**Advisor:** Milton Fuentes

**Co-Presenter(s):** Christian Bueso, Princess Cortes, Nayeli Dume, Maritza Lazo, Vanessa Rodriguez, Leslie Simon

**Title:** Cooperative Spatial Awareness-Based Robot Action Planning in Dynamic Environments

**Presenter:** Maxim Vladimir Lyons

**Advisor:** Weitian Wang

**Title:** Analyzing a Gradient of Artificial Saline Soils and Comparing them to a Natural Gradient of Saline Coastal Soils

**Presenter:** Janyce Wowk

**Advisor:** Nina Goodey

**Title:** The Development of Various Types of Wayfinding Knowledge in Children 6-10 Years Old

**Presenter:** Nardin Yacoub

**Advisor:** Jennifer Yang

**Co-Presenter(s):** Aliyah Latorre, Leslie Mere, Alejandro Gaspar

**Title:** Mel Frequency Spectrogram Analysis for TB detection on Cough Data  
**Presenter:** Jyoti Yadav  
**Advisor:** Aparna Varde