



MONTCLAIR STATE  
UNIVERSITY

# 2023

## Student Research Symposium

Promoting  
Collaboration  
Across Disciplines

**April 26, 2023**

9:30am-2:45pm

**The Conference Center  
University Hall, 7th Floor**

**SPONSORED BY**

The Office for Research | College of Humanities & Social Sciences

College of Science & Mathematics | College of Education and Human Services

## 2023 Symposium Schedule

8:45 a.m.	Check-in opens
9:00 a.m.	Light breakfast available
9:30 a.m.	Welcome/Opening Remarks
9:45 – 10:45 a.m.	Poster Session 1
11:00 a.m. – 12:00 p.m.	Poster Session 2
12:00 – 12:30 p.m.	Break with light refreshments
12:30 – 1:30 p.m.	Poster Session 3
1:45 – 2:45 p.m.	Poster Session 4

## Poster Session 1: 9:45 – 10:45 a.m.

(Alphabetical by Presenter's Last Name)

Fayza Abbasi - A3  
Anthony Aponte-Almanzar - A4  
Divomi Balasuriya - A5  
Cooper Bane - A6  
Jizette Bayron - A7  
Jean-Marie Beeks - A8  
Brandon Bernard Mendez - A9  
Bailey Carlo - A10  
Mara Cohen - A11  
Jonathan Conrad - A12  
Amy Daniel - A13  
Carly DeLucca - A14  
John Eakley - A15  
Karima Elgamal - A16  
Sarah Estupinan Jimenez - A17  
Celina Flores Garza - A18  
Michaela Forbes - A19  
Alfonse Gaité - A20  
Wilthon Gilles - A21  
Julia Hauss - A22  
Victoria Hojnacki - A23  
Karim Homsí - A24  
Ridley Joseph - A25  
Twisile Kalinga - A26  
Youngjun Kim - A1  
Ginger Lopenen - A27  
Russell Maloney - A28  
Savannah Mitchell - A29  
Emily Murphy - A30  
Catrina Notari - A31  
Edileide Novais Cavalcanti - A32  
Alicja Obuchowska - A33  
Sara Reper - A34  
Joseph Rios - A35  
Emily Roberts - A36  
Magali Romero - A37  
Amy Rosen - A38  
Jessica Scheinbaum - A39  
Lianna Scherer - A40  
Melissa Spigelman - A41  
Betsy Stephens - A42  
Peter Stoermer - A43  
Eric Swanson - A44  
Geena Taite - A2  
Francisco Villa - A45  
Morgan Wactor - A46  
Krystal Woolston - A47  
Satoni Zaccaro - A48  
Samantha Zakrzewski - A49

## Poster Session 1: 9:45 – 10:45 a.m.

(Alphabetical by Presenter's Last Name)

Title: Is Higher ToM Associated with Neuroticism?  
Presenter: Fayza Abbasi  
Advisor: Laura Lakusta

Title: Energy Efficiency Outreach in Orange, New Jersey  
Presenter: Anthony Aponte-Almanzar  
Advisor: Greg Pope

Title: The Effect of Sand Nourishment on Beach Sediment Composition of Sandy Hook and Long Beach Island, New Jersey  
Presenter: Divomi Balasuriya  
Co-Author(s): Dr. Sandra Passchier  
Advisor: Sandra Passchier

Title: The Paleontology of Central New Jersey  
Presenter: Cooper Bane  
Advisor: Greg Pope

Title: The Role of Surprise in Spatial Language Acquisition  
Presenter: Jizette Bayron  
Co-Author(s): Jizette Bayron, Stephanie Spivak, Emily Ferrer, Laura Lakusta  
Advisor: Laura Lakusta

Title: International Pen Pal Project as an Engaging Experience to Increase Students' Cultural Competency and Prepare for Work with Immigrant and Refugee Families  
Presenter: Jean-Marie Beeks  
Co-Presenter(s): Iliana Woodhull, Olena Nesteruk  
Co-Author(s): Jean-Marie Beeks, Iliana Woodhull, Olena Nesteruk  
Advisor: Olena Nesteruk

Title: Virtual skeleton: Constructive Criticism  
Presenter: Brandon Bernard Mendez  
Co-Author(s): Rui Li  
Advisor: Rui Li

Title: Montclair Township's Journey to Becoming Certified by Sustainable Jersey Under the Sustainable Business Registry Program  
Presenter: Bailey Carlo  
Advisor: Greg Pope

Title: Fatigue, Sleep, Skin Temperature, and Mood  
Presenter: Mara Cohen  
Advisor: Ruth Propper

Title: The Potential Storage of Microplastics in Lacustrine Environments  
Presenter: Jonathan Conrad  
Advisor: Josh Galster

Title: Multiple Representations of Functions in a Calculus Open Educational Resource Compared to a Traditional Textbook  
Presenter: Amy Daniel  
Advisor: Joseph DiNapoli

Title: Heat Island Assessment and Mitigation for Montclair  
Presenter: Carly DeLucca  
Advisor: Greg Pope

Title: Synthesis and Study of a New Fluorescent Sensor for Zinc Ions  
Presenter: John Eakley  
Advisor: Saliya de Silva

Title: Spatial Perspective Taking Abilities Assessed in Down Syndrome Youth  
Presenter: Karima Elgamal  
Co-Author(s): Stephanie Grinshpun, Aria Smith, Julia Hauss, Samantha Zakrzewski, Komal Khera, Melinda Mo, Sumin Bang, Matthew Baker, Ameet Kaur, Yingying Yang, Edward Merrill  
Advisor: Yingying (Jennifer) Yang

Title: Probing the Stretchiness of Nucleons Using Compton Scattering at HIGS of Cryogenic Liquids  
Presenter: Sarah Estupinan Jimenez  
Advisor: Kent Leung

Title: Trace and Rare Earth Element (REE) analysis of Oligocene and Miocene diamictites in the Cape Roberts Drilling Project cores, Ross Sea, Antarctica  
Presenter: Celina Flores Garza  
Advisor: Sandra Passchier

Title: Comparison of Natural Processes on Paleosols and Human Impact on Modern Soil Through Carbon Measurements  
Presenter: Michaela Forbes  
Advisor: Greg Pope

Title: The Impact of Robotic Exoskeleton Gait Training on Gait Adaptability in Persons with Multiple Sclerosis  
Presenter: Alfonse Gaité  
Advisor: Ruth Propper

Title: Computational Modeling of the Impact of Functional Groups on Asphaltene Aggregates via Random Phase Approximation  
 Presenter: Wilthon Gilles  
 Advisor: Hendrik Eshuis

Title: The Language of Mechanical Support in Children: Is it ‘Sticking’, ‘Hanging’, or simply ‘On’?  
 Presenter: Julia Hauss  
 Co-Presenter(s): Angelina Pasquella  
 Co-Author(s): Jennifer Barbosa, Angelina Pasquella, Dr. Paul Muentener, Dr. Barbra Landau, Dr. Laura Lakusta  
 Advisor: Laura Lakusta

Title: A Multiproxy Characterization of ODP Site 696 Sediments During a Greenhouse to Icehouse Transition  
 Presenter: Victoria Hojnacki  
 Co-Author(s): Sandra Passchier  
 Advisor: Sandra Passchier

Title: Is ICER, a Protein with Anti Tumor Functions, Paradoxically Eliciting Refractory Tumors?  
 Presenter: Karim Homsy  
 Co-Author(s): Justin Wheelan, Angelo Cirinelli, James Reilly, Melissa Spigelman, Melissa Pallen, Carlos A. Molina  
 Advisor: Carlos Molina

Title: Antarctic Peninsula Ice Sheet Dynamics in the Pliocene from Sedimentological Interpretation of Ocean Drilling Program Site 1097  
 Presenter: Ridley Joseph  
 Advisor: Sandra Passchier

Title: Impact of Registry on Reentry Experiences of Individuals Convicted of Sex Crimes  
 Presenter: Twisile Kalinga  
 Advisor: Dr. Tarika Daftary-Kapur

Title: Extraneous Solutions and Students’ Opportunities for Reasoning with Equations  
 Presenter: Youngjun Kim  
 Advisor: Joseph DiNapoli

Title: Where to Implement a Wildlife Crossing in Fredon, NJ  
 Presenter: Ginger Lopenen  
 Advisor: Greg Pope

Title: The Effects of Chitinase-1 on *Brugia malayi*  
 Presenter: Russell Maloney  
 Co-Author(s): Dr. John Siekierka, Tyler Eck  
 Advisor: John Siekierka

Title: The Relationship Between Language Proficiency and Memory Performance in Spanish-English Bilinguals  
 Presenter: Savannah Mitchell  
 Co-Presenter(s): Kya Wright  
 Co-Author(s): Kya Wright  
 Advisor: Lauren Covey

Title: Improving Public Engagement in Paterson, New Jersey  
 Presenter: Emily Murphy  
 Advisor: Greg Pope

Title: I'm the Leader! How Shared Leadership May Lead to Territoriality  
 Presenter: Catrina Notari  
 Co-Author(s): Dr. Valerie Sessa  
 Advisor: Valerie Sessa

Title: It's a Jangle Out There: Reconciling Organizational Bonds Constructs  
 Presenter: Edileide Novais Cavalcanti  
 Co-Presenter(s): Nirvana Mejia, Alessandra Mogrovejo  
 Co-Author(s): Sessa, V. I., Lee, I., Notari, C., DePietro, M., Cavalcanti, E., Mejia, N., Mogrovejo, A., Morales, S., Pitamber, D., Simmen, C., & Bowling, N.A.  
 Advisor: Valerie Sessa

Title: The Environmental Impacts of Food Delivery Services in New Jersey  
 Presenter: Alicja Obuchowska  
 Advisor: Greg Pope

Title: Community Energy Outreach in West Orange, New Jersey  
 Presenter: Sara Reper  
 Advisor: Greg Pope

Title: The Role of Immune Molecules in Foraging Behavior: Tol-1 Inhibits *C. elegans* Foraging Behavior in a Feeding State Dependent Manner  
 Presenter: Joseph Rios  
 Co-Presenter(s): Nour Shalash  
 Co-Author(s): Neel Patel, Nour Shalash, Christos Suriano, Department of Biology, Sokol Institute  
 Advisor: Christos Suriano

Title: Sudoku in the Context of Graph Theory  
 Presenter: Emily Roberts  
 Advisor: Jonathan Cutler

Title: Habitat characteristics of American Kestrel (*Falco sparverius*) Nesting Sites in Northwestern New Jersey  
 Presenter: Magali Romero  
 Advisor: John Smallwood

Title: Investigating Generalization Patterns in Children with Residual Speech  
Sound Disorder  
Presenter: Amy Rosen  
Co-Author(s): Roberta Lazarus, Elaine Hitchcock  
Advisor: Elaine Hitchcock

Title: Hosoya Polynomials of Hexagonal Chains  
Presenter: Jessica Scheinbaum  
Advisor: Dr. Aihua Li

Title: Does Skin Exposure Differ in Breastfeeding Images When Taken in  
Public vs Private Spaces?  
Presenter: Lianna Scherer  
Advisor: Lauren Dinour

Title: Investigating the Link between the ICER Protein and Ovulation in  
Zebrafish Models  
Presenter: Melissa Spigelman  
Co-Author(s): Melissa Pallen, James Reilly, Dr. Carlos Molina  
Advisor: Carlos Molina

Title: Yoga Beats Stress Provides Protection Against Poor Mental Health  
Outcomes  
Presenter: Betsy Stephens  
Advisor: Wendy Zeitlin

Title: Natural Interaction between Human and Robot Using Deep Learning and  
Computer Vision Techniques  
Presenter: Peter Stoermer  
Advisor: Michelle Zhu

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  
Co-Author(s): Dr. Kent Leung, Dr. Kevin Olsen  
Advisor: Kent Leung

Title: Designing & Implementing Professional Development on Mathematical  
Modeling to Address Evolving Teacher Challenges  
Presenter: Geena Taite  
Co-Presenter(s): Amanda Provost, Andre Perkoski, Frank Forte, Youngjun Kim  
Co-Author(s): Amanda Provost, Andre Perkoski, Frank Forte, Youngjun Kim  
Advisor: Joseph DiNapoli

Title: Chunking Capabilities in Bilingual Spanish-English Speakers  
Presenter: Francisco Villa  
Co-Author(s): Noelia Amador  
Advisor: Lauren Covey



Title: Animal Biodiversity of a Former Quarry at Montclair State University  
Presenter: Morgan Wactor  
Advisor: Lisa Hazard

Title: "It Was Like Double Damage": An Exploration of Clergy-Perpetrated Sexual Abuse, Institutional Betrayal, and Posttraumatic Growth  
Presenter: Krystal Woolston  
Advisor: Jennifer Brown Urban

Title: Enhancing Phytoremediation to Improve Its Capabilities  
Presenter: Satoni Zaccaro  
Advisor: Greg Pope

Title: Mental Rotation Abilities Improved through Training in Youth and Adolescents with Down Syndrome  
Presenter: Samantha Zakrzewski  
Co-Author(s): Zakrzewski Samantha, Grinshpun Stephanie, Smith Aria, Hauss Julia, Elgamel Karima, Khera Komal, Mo Melinda, Bang Sumin, Baker Matthew, Kaur Ameet, Yang Yingying (Jennifer), Merrill Edward  
Advisor: Yingying (Jennifer) Yang

## **Poster Session 2: 11:00 a.m. – 12:00 p.m.**

(Alphabetical by Presenter's Last Name)

Amanda Abdelaal - B4  
Sarah Acquaviva - B5  
Alondra Aquino - B46  
Gita Bhushal Adhikary - B6  
Louis Cardenuto - B7  
Lee Casseus - B8  
Emily Cepin - B9  
Iman Cumberbatch - B10  
Eshariah Dyson - B12  
Kimberly Echevarria - B42  
Mariam Elbandy - B13  
Anthony Gachetti - B15  
Hrisa Goga - B16  
Jenna Hamdeh - B17  
Jenna Horowitz - B41  
Corbin Hudson - B18  
Jessica Ibrahimian - B19  
Nasrallah Jaber - B20  
Charles Knoble - B21  
Elise Lahiere - B1  
Helene Leonard - B3  
Madeline Lucas - B22

Lora Lynch - B23  
Nicole Macapagal - B24  
Hajra Mateen - B45  
Joseph Mayala Nsingi - B25  
Allyson Mejia - B26  
Crystal Montero - B27  
James Olatunji - B28  
Skylar Paletta - B29  
Kesha Patel - B30  
Maha Pluviose - B31  
Kearsten Powers - B32  
Amanda Provost - B2  
Ema Ramicevic - B43  
Tasia Ramsey - B33  
Miles Schroeder - B34  
Sarahana Shrestha - B47  
Zainab Tariq - B35  
Aamnah Ullah - B36  
Leanna Valles - B37  
Mark Zoren Valmonte - B38  
Qingting (Tina) Wu - B39  
Edward Wynman - B40  
Naima Zaheer - B44

## Poster Session 2: 11:00 a.m. – 12:00 p.m.

(Alphabetical by Presenter's Last Name)

Title: Comparison of Long Term Benefits of Vestibular, Aerobic, and Mental Health Therapies in Concussion Rehabilitation

Presenter: Amanda Abdelaal

Advisor: Fredrick Gardin

Title: Full Degree Spanning Trees in Random Cubic Graphs

Presenter: Sarah Acquaviva

Co-Author(s): Deepak Bal

Advisor: Deepak Bal

Title: Will the Removal of Tariffs and Non-tariffs Affect Nepal's Economy?

Presenter: Gita Bhushal Adhikary

Co-Author(s): Dileep Birur, Pankaj Lal

Advisor: Pankaj Lal

Title: Misinformation and the First Amendment

Presenter: Louis Cardenuto

Advisor: Thomas Loikith

Title: Domestic Terrorism and Its Dilemma with Domestic Mass Shootings in America

Presenter: Lee Casseus

Advisor: Thomas Loikith

Title: Paleoclimate Reconstruction of the Paleocene-Eocene Thermal Maximum Using Carbon Isotopes of Black Carbon and Pollen

Presenter: Emily Cepin

Co-Author(s): Ying Cui, Samantha Benjamin, Maurizia De Palma

Advisor: Ying Cui

Title: Environmental Study of Urban Forestry Using Data Visualization with Extended Reality

Presenter: Iman Cumberbatch

Co-Author(s): Dr. Stefan Robila

Advisor: Stefan Robila

Title: Soil-metal Complexes in Contaminated Soil

Presenter: Eshariah Dyson

Advisor: Nina Goodey

Title: Catalytic Addition of Sulfinates to Nitroalkenes

Presenter: Mariam Elbandy

Co-Author(s): James Franco, Dr. Magnus Bebbington

Advisor: Magnus Bebbington

Title: Paleoenvironment reconstruction of the eastern Tethys Sea during the Pre-Onset Excursion  
 Presenter: Anthony Gachetti  
 Co-Author(s): Ying Cui, Shijun Jiang, Tina Wu, Maurizia De Palma, and Stefanie Brachfeld  
 Advisor: Ying Cui

Title: Expression of Putative RNase E from the Bacteriophage Shival  
 Presenter: Hrisa Goga  
 Advisor: Quinn Vega

Title: Amavida, Heylee, and JaNo: Three Novel Arthrobacter phage  
 Presenter: Jenna Hamdeh  
 Co-Presenter(s): Jaimee Diogo, Safiya Bunglawala  
 Co-Author(s): Naseem Abedrabbo, Odai Abdul, Wilmary Acosta, Emma Alava, Rebecca Alexandre, Nadira Ali, Verssally Aracena, Hermie Araneta, Giorgia Bialoglowka, Samantha Bobinski, Ty Broers, Jacob Bucherer, Heylee Caceres, Domenica Canar, Kevin Caputo, Charlotte Carreon, Lucero Castano, Phillip De Coma, Megan de Vinck, Anayah Coles, Emely Elizalde, Alexander Ellis, Micaela Espinoza, Jadan Garcia, Ke'mahni Gayle, Eli Horgan, Amar Hrustemovic, Xianny Jimenez, Adama Kallon, Janice Kapelevich, Alyssa Kchkouryan, Maribella Lora, Gianna Maresca, Daniel Mecca, Michelle Navarro, Makayla Nelson, Maya Padberg, Jaival Patel, Zofia Przedworska, Bianca Quispe, Leysel Romero, Nour Shalash, Tiffany Suazo, Hidayet Tonka, Angel Torres, Jefferson Vela, Issac Vizcaino, Kaiya White,  
 Advisor: Kirsten Monsen-Collar

Title: Discovery of DNA Aptamers as Probes for Detecting Ranavirus MCP  
 Presenter: Corbin Hudson  
 Advisor: Nina Goodey

Title: Field Study of the Effects of Artificial Root Exudates on Barren Contaminated Soil  
 Presenter: Jessica Ibrahimian  
 Co-Author(s): Eshariah Dyson  
 Advisor: Nina Goodey

Title: The Addition of Artificial Root Exudates Causes Microbial Awakening  
 Presenter: Nasrallah Jaber  
 Co-Author(s): Naima Zaheer  
 Advisor: Nina Goodey

Title: Environmental Justice in New Jersey – An Exploration of Twitter as an Early Injustice Detection Tool  
 Presenter: Charles Knoble  
 Co-Author(s): Danlin Yu  
 Advisor: Danlin Yu

Title: Tracing the Mathematical Modeling Phases of Pre-Service Teachers: A MAD Analysis  
Presenter: Elise Lahiere  
Co-Presenter(s): Geena Taite, Youngjun Kim, Amanda Provost, Andre Perkoski  
Co-Author(s): Geena Taite, Youngjun Kim, Amanda Provost, Andre Perkoski  
Advisor: Joseph DiNapoli

Title: Inhibition of Carbonic Anhydrase Activity by Green Tea antioxidant EGCG  
Presenter: Madeline Lucas  
Co-Author(s): Vladislav Snitsarev, Quinn C Vega, Elena Petroff  
Advisor: Elena Petroff

Title: Music Composition Through the Use of Mathematical Transformations  
Presenter: Lora Lynch  
Co-Author(s): Joshua Cellar  
Advisor: Bogdan Nita

Title: Social Anxiety and it's Impacts on Social Interactions  
Presenter: Nicole Macapagal  
Co-Presenter(s): Caroline Freden  
Co-Author(s): Erin Kang, Matt Lerner  
Advisor: Erin Kang

Title: Modeling Continental Weathering Across the End-Permian Mass Extinction  
Presenter: Joseph Mayala Nsingi  
Co-Author(s): Markus Adloff, Qingting Wu, Edwin Lotero, and Ying Cui  
Advisor: Ying Cui

Title: Analyzing Paleoclimate Changes During the end-Permian using Carbon and Nitrogen Isotopes  
Presenter: Allyson Mejia  
Co-Author(s): Tina Wu  
Advisor: Ying Cui

Title: The effect of the replacement of E57N on MtIGPS catalysis  
Presenter: Crystal Montero  
Advisor: Nina Goodey

Title: Virtual Reality as a Learning Tool for Life Sciences  
Presenter: James Olatunji  
Advisor: Stefan Robila

Title: Effect of Virtual Reality-Induced Mood States on Balance Performance  
Presenter: Skylar Paletta  
Advisor: Luis Torres

Title: Social Influence on Risky Choice  
 Presenter: Kesha Patel  
 Advisor: Michael Bixter

Title: Arthrobacter Phage: Abidatro  
 Presenter: Maha Pluiose  
 Advisor: Quinn Vega

Title: The Perception of Disordered Eating Among Different Levels of Collegiate Athletes  
 Presenter: Kearsten Powers  
 Advisor: Fredrick Gardin

Title: Supporting Pre-Service Teachers as They Begin Their Mathematical Modeling Journey  
 Presenter: Amanda Provost  
 Co-Presenter(s): Youngjun Kim, Elise Lahiere, Geena Taite  
 Co-Author(s): Youngjun Kim, Elise Lahiere, Andre Perkoski, Geena Taite  
 Advisor: Joseph DiNapoli

Title: Collaboration, Redemption, and Race: Who are the True Heroes of J.R.R. Tolkien's Middle Earth Mythology?  
 Presenter: Tasia Ramsey  
 Advisor: Glen Gill

Title: Understanding & Visualizing Queer Activism across the Global South  
 Presenter: Miles Schroeder  
 Advisor: Arnaud Kurze

Title: Economic Analyses of Electricity from Food Waste at Regional scale: A Meta-Analysis  
 Presenter: Zainab Tariq  
 Advisor: Pankaj Lal

Title: The Impact of Online Racial/Ethnic Discrimination on Sleep and Anxiety  
 Presenter: Aamnah Ullah  
 Advisor: Jazmin Reyes-Portillo

Title: Academic Stress, Anxiety, and Self-Efficacy: The Role of Emotion Regulation  
 Presenter: Leanna Valles  
 Advisor: Samantha Coyle

Title: Mark Zoren Valmonte  
 Presenter: Exploration of Bio-inspired Synthetic Polymer in Graphene Derivative (rGO) synthesis  
 Co-Author(s): Dr. Amrita Sarkar, Zeyad Baker, Jianna Loor  
 Advisor: Amrita Sarkar

Title: Biogeochemical Responses to Global Warming During the Paleocene–Eocene Thermal Maximum in the Eastern Tethys  
Presenter: Qingting (Tina) Wu  
Co-Author(s): Ying Cui, Shijun Jiang, Yixin Dong, Jun Shen  
Advisor: Ying Cui

Title: How Long is Too Long? An Investigation of Preference for Jail over Probation in Mock Defendants.  
Presenter: Kimberly Echevarria  
Co-Author(s): Dr. Tina M. Zottoli  
Advisor: Tina Zottoli

Title: An In Vitro Analysis of the Danger of Diabetes on Retinal and Cardiac cells  
Presenter: Ema Ramicevic  
Co-Presenter(s): Kingsley Maduka, Tomasz Bartoszewicz, Adanna Chukwuocha  
Co-Author(s): Kingsley Maduka, Tomasz Bartoszewicz, Adanna Chukwuocha  
Advisor: Ann Marie DiLorenzo

Title: Exploring Changes in Mathematics Teacher Practice from Professional Development Rooted in the Tru Framework  
Presenter: Helene Leonard  
Co-Presenter(s): Amy Daniel, Youngjun Kim  
Co-Author(s): Amy Daniel, Youngjun Kim  
Advisor: Joseph DiNapoli

Title: Prediction of Interactions between Mycobacterium tuberculosis Indole Glycerol Phosphate Synthase (IGPS) and Substrate Analogs  
Presenter: Naima Zaheer  
Co-Author(s): David Konas, Nina Goodey  
Advisor: Nina Goodey

Title: The Catalytic Activity and Binding of Mutant S220T in M. tuberculosis IGP Synthase  
Presenter: Hajra Mateen  
Co-Author(s): Erik Domlija, Naima Syed, Sarah Cho, Dr David Konas, Dr Nina Goodey  
Advisor: Nina Goodey

Title: Jangleland: Construct Proliferation in Workplace Psychological Constructs  
Presenter: Alondra Aquino  
Co-Presenter(s): Edileide Novais Cavalcanti, Catrina Notari  
Co-Author(s): Catrina Notari, Valerie Sessa, Alondra Aquino, Edileide Novais Cavalcanti, Nathan Bowling  
Advisor: Valerie Sessa

Title: Exploring Patterns in Energy Consumption through Machine Learning and Time Series Analysis  
Presenter: Sarahana Shrestha  
Co-Presenter(s): Daniel Cwynar  
Co-Author(s): Daniel Cwynar, Dr Aparna Varde  
Advisor: Aparna Varde



### **Poster Session 3: 12:30 – 1:30 p.m.**

(Alphabetical by Presenter's Last Name)

Cassie Armout - C3	Theodore Kochell - C25
Nishanta Baral - C4	Madison Lawton - C47
Nadia Barcheski - C5	Calypso Lune - C26
Chrisnaelle Beaucejour – C48	Emily Lynch - C27
Viren Bhavsar - C6	Katherine Margolin - C28
Wasayef Bsharat - C7	Stephanie Montoya - C29
Cate Cameron - C8	Sandra Ortega - C30
Michael Camilo - C9	Chinwe Ossai - C31
Carolina Carrasquilla - C35	Amrit Parmar - C32
Stephanie Cucinello - C10	Nicole Peterson - C33
Nicholas D'Alessandro - C11	Kate Repp - C36
Gianna DeRienzo - C12	Alexa Salotti - C2
Shannan Devlin - C13	Meet Bharatbhai Sanariya - C37
Nayeli Dume - C1	Achyutha Satishkumar - C38
Emily Ferrer - C14	Aisha Shabbir - C39
Izzy Freid - C16	Deja Showers - C40
Michael Giarratana - C17	Oluwafemi Soetan - C41
Vanessa Glaser - C18	Rina Tabuchi - C42
Sara Kamal - C20	Vaibhavi Tiwari - C43
Taylor Kettle - C21	Sepideh Vafaie - C44
Jenna Khansa - C22	Calista Wong - C45
Nedeen Khashashina - C23	Karmen Yu - C46
Katherine Kilroy - C24	

### **Poster Session 3: 12:30 – 1:30 p.m.**

(Alphabetical by Presenter's Last Name)

Title: The Relationship between Academic Performance and Participation in Sports

Presenter: Cassie Armout

Co-Presenter(s): Atinuke Adejube, Danielle Duong, Amanda Gunnings

Co-Author(s): Atinuke Adejube, Danielle Duong, Amanda Gunnings

Advisor: Sarah Kelly

Title: Dynamics of Inertial and Non-inertial Particles in Geophysical Flows

Presenter: Nishanta Baral

Co-Author(s): Dr. Eric Forgoston

Advisor: Eric Forgoston

Title: Emotional Distress in Undergraduate Students

Presenter: Nadia Barcheski

Co-Presenter(s): Christina Lugg, Houda Sabeh

Co-Author(s): Christina Lugg, Houda Sabeh, Sarah Kelly, PhD, RN

Advisor: Sarah Kelly

Title: Role of E267 in Proton Transfer

Presenter: Chrisnaelle Beaucejour

Co-Presenter(s): Chrisnaelle Beaucejour, Marisa Messina, and Jaclyn Catalano

Advisor: Jaclyn Catalano

Title: Pursuit of Power

Presenter: Viren Bhavsar

Advisor: Deborah Chatr Aryamontri

Title: Exploring the Relationship between Autism and Obsessive-Compulsive Disorder Symptoms

Presenter: Wasayef Bsharat

Advisor: Erin Kang

Title: The Life and Legacy of Alvin Ailey's Revelations

Presenter: Cate Cameron

Advisor: Elizabeth McPherson

Title: Understanding Matter at Super-Nuclear Density Using Gravitational Waves and X-Ray Astronomy

Presenter: Michael Camilo

Co-Author(s): Anarya Ray, Dr. Jolien Creighton, Dr. Shaon Ghosh

Advisor: Shaon Ghosh

Title: Back from the Cold: Lessons on Dealing with a Warming World from Antarctic Species  
 Presenter: Carolina Carrasquilla  
 Co-Author(s): Haley Mcgeehan, Kevin Bilyk  
 Advisor: Kevin Bilyk

Title: Effects of Parental Incarceration on Children  
 Presenter: Stephanie Cucinello  
 Advisor: Maryam Rafieifar

Title: Water in the Arena: Hydraulic Engineering in the Roman World  
 Presenter: Nicholas D'Alessandro  
 Advisor: Deborah Chatr Aryamontri

Title: The Effects of Social Media on Sleep in College Students  
 Presenter: Gianna DeRienzo  
 Co-Presenter(s): Helena Van Vliet, Angiel Luque, Tatiana Huertas  
 Co-Author(s): Helena Van Vliet, Angiel Luque, Tatiana Huertas  
 Advisor: Sarah Kelly

Title: The Effect of Sibling Status on School Performance: A Secondary Analysis of the National Longitudinal Study of Adolescent Health  
 Presenter: Shannan Devlin  
 Co-Presenter(s): Liyna Abdelaziz, Nicole Biel, and Madison Rowe  
 Co-Author(s): Liyna Abdelaziz, Nicole Biel, and Madison Rowe  
 Advisor: Sarah Kelly

Title: The Importance of Affordable Food Options on Campus  
 Presenter: Nayeli Dume  
 Co-Presenter(s): Alexa Salotti, Kaoon (Francois) Ban, Shannon O'Connor  
 Co-Author(s): Alexa Salotti, Kaoon (Francois) Ban, Shannon O'Connor  
 Advisor: Shannon O'Connor

Title: The Association between Intermittent Fasting and Eating Disorder Symptomatology in a College Sample  
 Presenter: Emily Ferrer  
 Co-Author(s): Leora Haller, Shannon O'Connor  
 Advisor: Shannon O'Connor

Title: Glass Blowing in Ancient Rome  
 Presenter: Izzy Freid  
 Advisor: Deborah Chatr Aryamontri

Title: Eccentric Corrections to the Mass and Spin of a Black Hole Merger Remnant  
 Presenter: Michael Giarratana  
 Advisor: Marc Favata

Title: Petrographic Analysis of Pottery from the White Marl Archaeological Site, St. Catherine Parish, Jamaica, West Indies  
 Presenter: Vanessa Glaser  
 Co-Author(s): Matthew Gorring, Gregory Pope, Peter Siegel, Simon Mitchell, Sherene James-Williamson, Zachary Beier  
 Advisor: Matthew Gorring

Title: The Connection Between Wealth and Selfishness: Implications for Economic Development and Public Attitudes  
 Presenter: Sara Kamal  
 Advisor: Deborah Chatr Aryamontri

Title: Investigations of Racemic and Quasiracemic Metal Complexes of Substituted Benzoylalanines with Nickel, Cobalt, and Zinc  
 Presenter: Taylor Kettle  
 Co-Presenter(s): Nic Antonellis  
 Advisor: Mark Whitener

Title: First Intercourse Contraception Use Among Students  
 Presenter: Jenna Khansa  
 Co-Presenter(s): Kylie Huhn, Camila Yanez  
 Co-Author(s): Kylie Huhn, Camila Yanez  
 Advisor: Sarah Kelly

Title: Effects of Saline-Induced Stress on Transgenerational Epigenetic Inheritance within Mosquito Species, *Culex molestus*  
 Presenter: Nedeem Khashashina  
 Co-Author(s): Matthew Aardema, Fatima Waheeb  
 Advisor: Matthew Aardema

Title: Roman Concrete: How Was It Made and Does It Have Modern Uses?  
 Presenter: Katherine Kilroy  
 Advisor: Deborah Chatr Aryamontri

Title: Where the Water Is  
 Presenter: Theodore Kochell  
 Advisor: Deborah Chatr Aryamontri

Title: Alcohol Consumption Among College Students of Caucasian and African American Race  
 Presenter: Madison Lawton  
 Co-Presenter(s): Jenna Datesman, Yasmeen Salman, Samantha Medeiros  
 Co-Author(s): Jenna Datesman, Yasmeen Salman, Samantha Medeiros, Sarah Kelly  
 Advisor: Sarah Kelly

Title: The Effects of Ketamine on the Expression of Hippocampal  $\alpha$ -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) and Novel Object Placement Performance in a Wistar-Kyoto Model Depression

Presenter: Calypso Lune  
 Co-Presenter(s): Alan Pehrson  
 Co-Author(s): Andriy Fomin and Dr. Alan Pehrson  
 Advisor: Alan Pehrson

Title: Congruence among Clinician and Parent-reported Special Interests

Presenter: Emily Lynch  
 Co-Author(s): Rachel McDonald, Britney Jeyanayagam  
 Advisor: Erin Kang

Title: Preparation of IGPS Product Analogs through Reductive Amination and Wittig Reaction

Presenter: Katherine Margolin  
 Co-Presenter(s): Savannah Van Den Berg  
 Co-Author(s): Savannah Van Den Berg, David Konas  
 Advisor: David Konas

Title: Characterization of a Commercial Faraday Isolator at 2 Micron Wavelength

Presenter: Stephanie Montoya  
 Advisor: Rodica Martin

Title: College Student Perception of Safety

Presenter: Sandra Ortega  
 Co-Presenter(s): Dani Kane, Olivia Bonkowski  
 Co-Author(s): Dani Kane, Olivia Bonkowski  
 Advisor: Sarah Kelly

Title: Exploring Differences in Adult Disordered Eating by Reasons for Childhood Eating-related Shame

Presenter: Chinwe Ossai  
 Co-Author(s): Kaoon Ban, Shannon O' Connor  
 Advisor: Shannon O' Connor

Title: Parameter Optimization for Excitable Cells

Presenter: Amrit Parmar  
 Co-Author(s): Eric Forgoston, Vladislav Snitsarev  
 Advisor: Eric Forgoston

Title: Julius Caesar: The Transformation of Rome as Republic to an Empire

Presenter: Nicole Peterson  
 Advisor: Deborah Chatr Aryamontri

Title: Gender, Sex, and Politics: The Roman Bacchanalia Scandal of 186 BCE

Presenter: Kate Repp  
 Advisor: Deborah Chatr Aryamontri

Title: Exploring Power of Food as A Potential Moderator of Associations between Deficits in Emotional Regulation and Emotional Overeating  
 Presenter: Alexa Salotti  
 Co-Author(s): Kaoon (Francois) Ban, MPH, Shannon O'Connor, PhD  
 Advisor: Shannon O'Connor

Title: Gujarati Transnationals in New Jersey: A Phenomenological Study of the Effect of Differential Impacts On Local Cultural Food Practices  
 Presenter: Meet Bharatbhai Sanariya  
 Co-Author(s): Dr.Charles Feldman, Dr.Shahala Wunderlich , Dr.Neeraj Vedwan  
 Advisor: Charles Feldman

Title: Archeological Evidence of the Amazon Warriors Origins  
 Presenter: Achyutha Satishkumar  
 Advisor: Deborah Chatr Aryamontri

Title: The Effect of Alcohol Use on Academic Perfomance  
 Presenter: Aisha Shabbir  
 Co-Presenter(s): Aisha Shabbir, Sydney Silberman, Aleida Smack, Jazmin Carvajal  
 Co-Author(s): Sydney Silberman, Aleida Smack, Jazmin Carvajal  
 Advisor: Sarah Kelly

Title: Investigations of Racemic and Quasiracemic Metal Complexes of Substituted Benzoylalanines with Copper Using Pyridine Ligands  
 Presenter: Deja Showers  
 Co-Presenter(s): Uchechi Odikanwa  
 Advisor: Mark Whitener

Title: A Global Meta-Analytical Evaluation of Heavy Metal Pollution in Freshwater Surficial Sediments Using Heavy Metal Indices and Multivariate Statistical Methods.  
 Presenter: Oluwafemi Soetan  
 Co-Author(s): Huan Feng  
 Advisor: Huan Feng

Title: Spontaneous Clustering of Polyubiquitin Cargos on the Lipid Membranes  
 Presenter: Rina Tabuchi  
 Co-Author(s): Paola Gonzalez, Cedric Briones, Jenn Shin  
 Advisor: II-Hyung Lee

Title: Review of Ransomware Attacks and a Data Recovery Framework using Autopsy Digital Forensics Platform  
 Presenter: Vaibhavi Tiwari  
 Co-Presenter(s): Smit Chandrakant Nayak  
 Co-Author(s): Smit Chandrakant Nayak, Dr. Bharath Kumar Samanthula  
 Advisor: Dr. Bharath Kumar Samanthula

Title: Extinction Dynamics of Cascade Food Webs  
Presenter: Sepideh Vafaie  
Co-Author(s): Deepak Bal, Michael Thorne, Eric Forgoston  
Advisor: Eric Forgoston

Title: How Race and Gender Moderate the Effect of Facial Trait Inferences on  
Leadership Perception  
Presenter: Calista Wong  
Advisor: John Wilson

Title: Characterizing Calculus I Students' Participation in the Parallel Spaces of  
Coursework and Inquiry-Oriented Supplemental Instruction  
Presenter: Karmen Yu  
Advisor: Steven Greenstein

## Poster Session 4: 1:45 – 2:45 p.m.

(Alphabetical by Presenter's Last Name)

Hana Ali - D1  
Laurel Alpern - D7  
Shanna Anderson - D8  
Hermann Bermudez - D9  
Jada Brown - D10  
Jacob Caraballo - D11  
Angela Chemidlin - D13  
Lyndsey Clarke - D14  
Isamar Cortes - D15  
Zakaria Dahhan - D2  
Eric Dammann - D16  
Michael Eibl - D17  
Uchenna Ezichi - D48  
Citlaly Hernandez - D18  
Britney Jeyanayagam - D19  
Md Nurul Kadir - D20  
Luke Kozas - D21  
Javonica Latimore - D22  
Krishna Leitner - D23  
Nicolina Lentine - D24  
Alani Lombardi - D25  
Noah Macchirole - D26  
Zachary Mall - D5  
Ana Mendonca - D27

Marisa Messina - D28  
Cassandra Michalakis - D29  
Shania Morales - D30  
Kenneth Mosquera Reinoso - D31  
Michelle Mui - D6  
Shane Nichols-O'Neill - D32  
Efrain Ocasio - D33  
Briana Oskar - D34  
Katherine Parlitsis - D35  
Dominika Polchowska - D36  
Kyle Reyes Quiambao - D37  
Sophia Ruggiero - D38  
Amie Sexton - D39  
Diana Sisk-Gritz - D40  
Christian Smith - D41  
Jahniya Stone-Taylor - D42  
CJ Szafranski - D3  
Anthony Tamberelli - D43  
Maria Tevletidis - D4  
Clara Vitale - D44  
Ingrid Witty - D45  
Samantha Wyzykowski - D46  
Jeffrey Yumbla - D47



## Poster Session 4: 1:45 – 2:45 p.m.

(Alphabetical by Presenter's Last Name)

Title: Efficacy Testing on Experimental Formulas and Its Importance in Public Health  
Presenter: Hana Ali  
Co-Presenter(s): Ahmed Hossameldin  
Co-Author(s): Ahmed Hossameldin, Zakria Dahhan, Kelsey Hing, Kyle Reyes Quiambao, Maria Pineda, and Dr. Lee Lee  
Advisor: Lee Lee

Title: Draw Yourself as a Teacher: Exploring Teacher Identity and Beliefs among Teacher Education Students  
Presenter: Laurel Alpern  
Advisor: Minsun Shin

Title: Mapping Their Terrain: Teacher Leaders Wielding Social Network Theory for Educational Change  
Presenter: Shanna Anderson  
Co-Presenter(s): Ursula Derios, John O'Meara, Timothy Aberle  
Co-Author(s): Ursula Derios, John O'Meara, Timothy Aberle, Dr. Mika Munakata, Dr. Emily Klein, Dr. Monica Taylor  
Advisor: Mika Munakata

Title: Small Droplets of Glass Reveal a Rain of Molten Rock during the Extinction of Dinosaurs  
Presenter: Hermann Bermudez  
Co-Author(s): Billy P. Glass, Joanna V. Morgan, Liliana Bolívar, George Philips, José A. Arz, Vicente Gilabert, Ignacio Arenillas, Maurizia De Palma, Tina Wu, Ying Cui  
Advisor: Ying Cui

Title: Examining Meta-Analytically Supported Risk Factors for Academic Dishonesty in a Single Sample  
Presenter: Jada Brown  
Co-Author(s): Julia Stratton, Christopher M. King  
Advisor: Christopher King

Title: Ancient Rome and Its Everlasting Aqueducts  
Presenter: Jacob Caraballo  
Advisor: Deborah Chatr Aryamontri

Title: Using *Gonionemus vertens* polyps as an Educational Tool to Teach Asexual Reproduction, Population Growth, and Novel Observations on Life History  
Presenter: Angela Chemidlin  
Co-Presenter(s): Daniel Black, Sebastian Ruiz

Co-Author(s): Daniel Black, Sebastian Ruiz, Paul Bologna  
 Advisor: Paul Bologna

Title: Does Criminogenic Thinking or Psychopathic Features Transform Prosocial Maturity into Criminal Sophistication?  
 Presenter: Lyndsey Clarke  
 Co-Author(s): Kenny Gonzalez, Christopher M. King  
 Advisor: Christopher King

Title: Quantifying the Relationship between Evaporation and Precipitation Variations and Mangrove Health: Insights from a Mangrove Islands in Belize  
 Presenter: Isamar Cortes  
 Co-Author(s): Jorge Lorenzo-Trueba  
 Advisor: Jorge Lorenzo-Trueba

Title: Investigating the Inhibitory Effects of EC16 & CF2 Formulations on Endospore Forming *Bacillus megaterium* & *Bacillus subtilis*  
 Presenter: Zakaria Dahhan  
 Co-Presenter(s): Kelsey Hing  
 Co-Author(s): Kelsey Hing, Kyle Reyes Quiambao  
 Advisor: Lee Lee

Title: Methane Production in Tidal Marshes over Decadal Time Scales: Insights from a Morpho-dynamic Model  
 Presenter: Eric Dammann  
 Co-Author(s): Lorenzo-Trueba Jorge, Schutte Charles, Kipp Lauren  
 Advisor: Jorge Lorenzo-Trueba

Title: Leak Checking on Deuterated-PMMA films, using a Helium-Mass-Spectrometer-Based Spray-Mode Leak Detection Apparatus.  
 Presenter: Michael Eibl  
 Advisor: Kent Leung

Title: The Impact of double mutant residues E57D/E219Q and E57Q/E219Q on *M.tuberculosis* indole-3-glycerol phosphate synthase catalysis  
 Presenter: Uchenna Ezichi  
 Co-Author(s): Erik Domlija, Nina Goodey, David Konas  
 Advisor: Nina Goodey

Title: The roles of N189 and E168 in *M. tuberculosis* IGP Synthase Catalysis  
 Presenter: Citlaly Hernandez  
 Co-Author(s): Citlaly Hernandez, Sarah Cho, Maryum Bhatti, Erik Domlija, Cinthya Moran, David Konas, Nina Goodey  
 Advisor: Nina Goodey

Title: The Role of Parental Emotion Regulation on Child Behaviors in Autistic and Other Developmentally-Disabled Children During the COVID-19 Pandemic: Mediation by Dysfunctional Parent-Child Interactions  
 Presenter: Britney Jeyanayagam  
 Co-Author(s): Sadaf Khawar, Farah Mahmud, Mary Isaac Cargill, Emily Lynch, Chana Tilson, Erin Kang  
 Advisor: Erin Kang

Title: Quantifying Estuarine Bathymetric Changes under Sea-Level Cycles: Insights from a Moving Boundary Framework.  
 Presenter: Md Nurul Kadir  
 Advisor: Jorge Lorenzo-Trueba

Title: Using Intrinsic Traits as a Predictor of College Major  
 Presenter: Luke Kozas  
 Advisor: Jennifer Bragger

Title: Analysis of Food Insecurity in Newark, New Jersey  
 Presenter: Javonica Latimore  
 Advisor: Greg Pope

Title: Hydrotherapy in Greco-Rome  
 Presenter: Krishna Leitner  
 Advisor: Deborah Chatr Aryamontri

Title: Impact of Salinity on Soil in Cheesequake State Park in Matawan, NJ  
 Presenter: Nicolina Lentine  
 Advisor: Nina Goodey

Title: A Cherished Ancient Roman Ritualistic Practice  
 Presenter: Alani Lombardi  
 Advisor: Deborah Chatr Aryamontri

Title: Assessing Potential Crab Predators of the Invasive *Gonionemus vertens*  
 Presenter: Noah Macchirole  
 Advisor: Paul Bologna

Title: Examining Motivational Systems (Behavioral Inhibition and Behavioral Activation) as Mediators between Decision Making and Impulsivity in ADHD  
 Presenter: Zachary Mall  
 Co-Presenter(s): Elyse Ball, Ainz Gervais, Kylie King, Sarah Yulianti,  
 Co-Author(s): Elyse Ball, Ainz Gervais, Kylie King, Sarah Yulianti, Joshua Sandry, PhD  
 Advisor: Joshua Sandry

Title: Does Positional Behavior in Fiddler Crabs Depend on Sex or Familiarity?  
Presenter: Ana Mendonca  
Co-Presenter(s): Paula Chuquimarca, Nima Patel, Arohi Birari  
Co-Author(s): Kerece Everett, Salma Kwarteng  
Advisor: Scott Kight

Title: Determine the Role of an Acidic Residue in Cytochrome P450  
Presenter: Marisa Messina  
Co-Author(s): Jaclyn Catalano  
Advisor: Jaclyn Catalano

Title: Automated Analysis of Lipid Vesicle Images using Deep Learning  
Presenter: Cassandra Michalakis  
Co-Presenter(s): Rina Tabuchi  
Co-Author(s): Rina Tabuchi  
Advisor: Eli Lee

Title: Gender Differences in Theory of Mind  
Presenter: Shania Morales  
Advisor: Jennifer Bragger

Title: The Role of Residue M305 in Mammalian Cytochrome P450 2S1  
Presenter: Kenneth Mosquera Reinoso  
Advisor: Jaclyn Catalano

Title: Global Volumetric Reductions across Amygdala Nuclei in Chronic TBI  
Presenter: Michelle Mui  
Co-Author(s): Denise Babbit, Andriy Fomin, Sophia Lall, Zachary Mall, Ekaterina Dobryakova, Joshua Sandry  
Advisor: Joshua Sandry

Title: Centennial Barrier-inlet Evolution and Coastal Management: Lessons from Undeveloped and Developed Phases at Barnegat Inlet, New Jersey  
Presenter: Shane Nichols-O'Neill  
Co-Author(s): Jorge Lorenzo-Trueba  
Advisor: Jorge Lorenzo-Trueba

Title: Cargo Ships of Ancient Greece  
Presenter: Efrain Ocasio  
Advisor: Deborah Chatr Aryamontri

Title: Modified Green Tea Polyphenols P-EGCG and P-EGCG Containing Formulation Can Inhibit Bacillus Vegetative Cells and Enhance the Antibiotic Activity on Bacillus Vegetative Cells  
Presenter: Briana Oskar  
Co-Presenter(s): Kamyah Shah, Joanna Rodriguez  
Co-Author(s): Kamyah Shah, Joanna Rodriguez  
Advisor: Lee Lee

Title: An Analysis of Servant Leadership and Systemic Thinking  
 Presenter: Katherine Parlitsis  
 Advisor: Jennifer Bragger

Title: First Occurrence of the Invasive Hydrozoan Eucheilota maculata (Cnidaria: Hydrozoa) in New Jersey, USA  
 Presenter: Dominika Polchowska  
 Co-Presenter(s): Rachel Sechrist, Diana Bachiller  
 Co-Author(s): Paul Bologna, John Gaynor, Kirsten Monsen-Collar, Rachel Sechrist, Diana Bachiller  
 Advisor: Paul Bologna

Title: Studying the Effect of Formulations EC16 as Potential Bactericidal Agent on Endospore Forming Bacteria  
 Presenter: Kyle Reyes Quiambao  
 Advisor: Lee Lee

Title: The Framing of Professional Female Tennis Players  
 Presenter: Sophia Ruggiero  
 Advisor: Stephen Andon

Title: Roman Naval Logistics  
 Presenter: Amie Sexton  
 Advisor: Deborah Chatr Aryamontri

Title: Trophic Assessment of the Invasive Hydrozoan Gonionemus vertens using Stable Isotope Analysis: You are What You Eat  
 Presenter: Diana Sisk-Gritz  
 Co-Author(s): Dr. Paul Bologna, Dr. Xiaona Li, Dr. Ying Cui  
 Advisor: Paul Bologna

Title: Training Advisors to Train Students: How Can We Serve Advisors of Registered Student Organizations?  
 Presenter: Christian Smith  
 Co-Presenter(s): Cole Vitelli, Heather Hernandez-Mozz, Nayeli Dume, Milton Fuentes  
 Co-Author(s): Cole Vitelli, Heather Hernandez-Mozz, Nayeli Dume, Michelle Truffin, Milton Fuentes  
 Advisor: Milton Fuentes

Title: Personality, Servant Leadership, and Emotional Understanding Outcomes  
 Presenter: Jahniya Stone-Taylor  
 Advisor: Jennifer Bragger

Title: The Effect of Changes in Collisional Energy on Mass Spectrometric Dissociation Techniques.  
 Presenter: CJ Szafranski  
 Co-Presenter(s): Maria Tevletidis  
 Co-Author(s): Maria Tevletidis, Wilthon Gilles, Shane Finn  
 Advisor: Jinshan Gao

Title: Decadal Changes in Hydrozoan Community Structure  
Presenter: Anthony Tamberelli  
Co-Author(s): Dr. Paul Bologna  
Advisor: Paul Bologna

Title: Reduced vs Non-Reduced Conjugate Comparison  
Presenter: Maria Tevletidis  
Co-Author(s): Shane Finn, CJ Szafranski, Wilthon Gilles  
Advisor: Jinshan Gao

Title: Technology in the Ancient World: The History and Lasting Impacts of Roman Aqueducts  
Presenter: Clara Vitale  
Advisor: Deborah Chatr Aryamontri

Title: Decadal Evolution of a Riverine Marsh-Lagoon System: The Case of the Mullica River, NJ  
Presenter: Ingrid Witty  
Co-Author(s): Eric Dammann, Jorge Lorenzo Trueba  
Advisor: Jorge Lorenzo-Trueba

Title: Generalizability of Risk Factors for Crime to Academic Dishonesty between Genders  
Presenter: Samantha (Sam) Wyzykowski  
Co-Author(s): Julia Stratton, Christopher King  
Advisor: Christopher King

Title: A Comparison of the Effects of Substrate Activity on Cytochrome P450 Enzymes  
Presenter: Jeffrey Yumbla  
Co-Author(s): Jaclyn Catalano  
Advisor: Jaclyn Catalano

## Approved Abstracts Unable to Present Today

Title: Impacts of Ancient Greco-Roman Holistic Medicine During the Covid-19 Pandemic

Presenter: Kayla Brathwaite

Advisor: Deborah Chatr Aryamontri

Title: Decoupling Biogeomorphic Controls on Coastal Fore-dune Evolution Using Remote Sensing and in-situ Measurement Approaches

Presenter: Shane Daiek

Co-Author(s): Jorge Lorenzo-Trueba, Shane Nichols-O'Neill, Jesse Kolodin, Eric Dammann, Aparna S. Varde

Advisor: Jorge Lorenzo-Trueba

Title: The interconnected roles of residues N189, E168, and S220 in M. tuberculosis Indole-3 glycerol phosphate synthase catalysis

Presenter: Erik Domlija

Co-Author(s): Nina Goodey, David Konas

Advisor: Nina Goodey

Title: The Supernatural's Influence on Ancient Roman Culture

Presenter: Farrah Fornarotto

Advisor: Deborah Chatr Aryamontri

Title: The Importance of and Urbanization of Water in Ancient Greece and Rome

Presenter: Pauline Hameed

Advisor: Deborah Chatr Aryamontri

Title: The House of Athena

Presenter: Chiara Quezada

Advisor: Deborah Chatr Aryamontri

Title: Innovation in Roman Construction; What has Changed and Stayed the Same in Modern Society?

Presenter: Jaden Rannie-White

Advisor: Deborah Chatr Aryamontri

Title: Metapontum: A Greek Colony Buried Within South Italy

Presenter: Gabriella Socio

Advisor: Deborah Chatr Aryamontri

Title: The Health of the People in the Ancient Greco-Roman World

Presenter: David Vazquez

Advisor: Deborah Chatr Aryamontri