



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 Loponen - 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 Taitte
 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, Elgamal 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
Nishanta Baral - C4
Nadia Barcheski - C5
Chrisnaelle Beaucejour – C48
Viren Bhavsar - C6
Wasayef Bsharat - C7
Cate Cameron - C8
Michael Camilo - C9
Carolina Carrasquilla - C35
Stephanie Cucinello - C10
Nicholas D'Alessandro - C11
Gianna DeRienzo - C12
Shannan Devlin - C13
Nayeli Dume - C1
Emily Ferrer - C14
Izzy Freid - C16
Michael Giarratana - C17
Vanessa Glaser - C18
Sara Kamal - C20
Taylor Kettle - C21
Jenna Khansa - C22
Nedeen Khashashina - C23
Katherine Kilroy - C24

Theodore Kochell - C25
Madison Lawton - C47
Calypso Lune - C26
Emily Lynch - C27
Katherine Margolin - C28
Stephanie Montoya - C29
Sandra Ortega - C30
Chinwe Ossai - C31
Amrit Parmar - C32
Nicole Peterson - C33
Kate Repp - C36
Alexa Salotti - C2
Meet Bharatbhai Sanariya - C37
Achyutha Satishkumar - C38
Aisha Shabbir - C39
Deja Showers - C40
Oluwafemi Soetan - C41
Rina Tabuchi - C42
Vaibhavi Tiwari - C43
Sepideh Vafaie - C44
Calista Wong - C45
Karmen Yu - C46

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 Gorrington, Gregory Pope, Peter Siegel, Simon Mitchell, Sherene James-Williamson, Zachary Beier
Advisor: Matthew Gorrington

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 α -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: Il-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