

8th Annual Student Research Symposium



Promoting Collaboration Across Disciplines

Saturday, April 12, 2014 | University Hall

Presented by

Office of the Provost | College of the Arts | College of Education and Human Services |
College of Humanities and Social Sciences | College of Science and Mathematics |
School of Business | The Graduate School

It's all here. Montclair State University

Message from the Provost:



To the faculty and student participants of the University-wide Student Research Symposium:

This event, with participants from all across the University, represents the energy, creativity and hard work of which our students are capable under the mentorship of the faculty. Research is hard when done well and done thoroughly but its rewards can be immense, both as personal satisfaction for the job done and for the new knowledge acquired. Mastering the methods, techniques and tools of an intellectual discipline to the degree required for applying them effectively to a real-world question or problem is the essence of an empowering education. The satisfaction of knowing how to confidently apply oneself to a challenge with the techniques of a microbiologist, a sociologist, a psychologist, an accountant, an audiologist, a filmmaker, a journalist, a teacher or public health specialist, or any of a dozen other disciplinary methodologies, is the reward of a successful education and the key to opening a door into the mansion of life-long learning.

Even more satisfying and rewarding, then, is the challenge of tackling a problem with a toolbox of multiple methodologies, with an inter or multidisciplinary approach, either by mastering several different disciplines yourself, or by combining your own skills and efforts with colleagues trained in other disciplines. You may find that the problem cracks open more quickly and more easily when together you bring the collective weight of your individual skills to bear against it. Or together you can identify and address a question larger and more complex than any you could hope to solve individually. This is what has happened in all fields of human knowledge around us, and it happens because curious students like you are always finding creative new ways to apply the lessons of your teachers either to ancient questions (What is a just society? What does war cost? How can we best educate our children?) or to previously unknown functions of nature (What are the neurological pathways that teach a bird to build a nest? Why is dark matter only observable in its effects? What exact conditions trigger an earthquake in a specific place?).

No one will ever answer these questions on their own and no one discipline will serve to do so. That is the challenge and excitement of interdisciplinary cooperation. That is the attraction and promise of this event today, where students from disciplines across the University come together to discuss and share their research on common issues.

The entire faculty of Montclair State are proud of the work you have presented and wish you the best for continued growth and mastery of those skills and achievements.

A handwritten signature in black ink that reads "Willard Gingerich". The signature is written in a cursive, flowing style.

Dr. Willard Gingerich
Provost and Vice President for Academic Affairs

Schedule

- 7:45 am – 8:15 am **Registration and Continental Breakfast**
University Hall Grand Hallway, 1st Floor
- 8:20 am – 8:35 am **Opening Remarks/Welcome – Dr. Willard Gingerich**
Provost and Vice President for Academic Affairs
University Hall Room 1070
- 8:35 am – 9:15 am **Interdisciplinary Panel Presentation**
Montclair State University Faculty Members
University Hall Room 1070
- 9:20 am – 10:35 am **Poster Session Block A**
University Hall Conference Center, 7th Floor
- 10:40 am – 12:00 pm **Oral and Multimedia Presentations Block A**
Room assignments listed in program
- 12:00 pm – 12:45 pm **Lunch**
Student Center Ballroom
- 12:55 pm – 2:15 pm **Oral and Multimedia Presentations Block B**
Room assignments listed in program
- 2:20 pm – 3:40 pm **Oral and Multimedia Presentations Block C**
Room assignments listed in program
- 3:45 pm – 5:00 pm **Poster Session Block B**
University Hall Conference Center, 7th Floor
- 5:05 pm **Award Presentations and Closing Remarks**
General Symposium Awards and Closing Remarks
Outstanding Interdisciplinary Presentations and Posters
University Hall 1070

Poster Presentations

Block A: 9:20 am – 10:35 am

(Alphabetical by Presenter's Last Name)

Graduate Award Nominees for Poster Presentations

Title: **A multi-stakeholder perspective on factors affecting successful transition to adulthood for youth with severe emotional disturbances (A60)**

Presenter: Nadira Kwaja

Co-Authors: Jennifer Urban, Kristen Hassmiller Lich, Rebecca Wells, Nicole Lawrence

Advisor: Dr. Jennifer Urban

Title: **What predicts visceral adipose tissue: Trunk shape or trunk size? (A37)**

Presenter: Robert Moore

Co-authors: Diana Thomas, Steven Heymsfield, Manfred Mueller, Anja Bosy-Westphal, Courtney Peterson

Advisor: Dr. Diana Thomas

Title: **Stereotype threat, interview structure, and performance (A21)**

Presenter: Bridget Muzycyn

Co-authors: Mackenzie Renda, Marta Hanaka, Gaynell Schettino

Advisor: Dr. Jennifer Bragger

Undergraduate Award Nominees for Poster Presentations

Title: **A study of misleading journalistic reporting of the Holocaust – Why the New York Times coverage of the Holocaust was materially understated and misleading as evidenced by comparative analysis of the Times reporting of specific Holocaust stories with that of the New York Herald Tribune for the period 1942-1944 (A57)**

Presenter: Arnold Litt

Advisor: Ron Hollander

Title: **Molecular detection of Rana virus in the northeastern US: The largest Rana virus screen in North America (A14)**

Presenter: Anthony Strobolagos

Co-authors: Dajana Borova, Alvin Mercado, Mollie Rosenkrantz, Fady Sidhom

Advisor: Dr. Kirsten Monsen-Collar

Title: **Molecular evolution of opsin genes in bears (A56)**

Presenter: Abdelrhman Abo-Zed

Advisor: Dr. Robert Meredith

Title: **Synthesis of novel diamines for drug discovery (A27)**

Presenter: Amna Adam

Co-author: David Rotella

Advisor: Dr. David Rotella

Title: **The role of parental involvement in child sexual abuse outcomes (A31)**

Presenter: Sagal Ahmed

Co-author: Erik Dranoff

Advisor: Dr. Anthony D'Urso

Title: **Randić connectivity indices of octagonal systems (A24)**
Presenter: Rob Rexler Baello
Co-author: William Burke
Advisor: Dr. Aihua Li

Title: **Lateralized differences in tympanic membrane temperature, but not mood, are related to episodic memory (A15)**
Presenter: Taylor Barr
Co-author: Ruth Propper
Advisor: Dr. Ruth Propper

Title: **An interdisciplinary approach to the war on drugs: Its costs, penalties and results (A50)**
Presenter: Joseph Bavolar
Advisor: Dr. Ian Drake

Title: **Student aggression and classroom disruptions (A63)**
Presenter: Luis Bernal
Advisor: Dr. Christopher Donoghue

Title: **Effects of tillage and amendment on soil communities (A5)**
Presenter: Elijah Bohorquez
Advisor: Dr. Jennifer Krumins

Title: **The right to bear arms (A20)**
Presenter: Carmine Bufi
Advisor: Dr. Ian Drake

Title: **The relationship of religiosity, religious coping and adjustment for Latino immigrants in the United States (A16)**
Presenter: Diana Cabezas
Advisor: Dr. Deborah Fish Ragin

Title: **Neutrality in employment standards (A29)**
Presenter: John Carroll
Advisor: Avram Segall, Esq.

Title: **Eyewitness testimony: Implications and reforms (A42)**
Presenter: Tracey Cordeiro
Advisor: Dr. Ian Drake

Title: **PG Bank-The pursuit of a family office (A7)**
Presenter: Nassourou Diallo
Co-authors: Brendan Churchin, Danel Yunes
Advisor: John Scorsone

Title: **Interdisciplinary discourse on data-mining surveillance and the fourth amendment (A28)**
Presenter: Leonardo Dinic
Advisor: Avram Segall, Esq.

Title: **Intergenerational trauma: Modern day Jews and the effects of the Holocaust (A26)**
Presenter: Rachel Druker
Advisor: Dr. Christopher Donoghue

Title: **Limits to quality factors in nanomechanical resonators made from diffusive conductors (A1)**
 Presenter: Nicholas Drywa
 Advisor: Dr. Patrick Truitt

Title: **Pedagogy of the adult with LD: Mathematics perspective (A51)**
 Presenter: Peggy Flood
 Advisor: Dr. Mika Munakata

Title: **The notion of source in children's event representations (A41)**
 Presenter: Omaris Garcia
 Co-author: Deanna Mendez
 Advisor: Dr. Laura Lakusta

Title: **Insanity defense-The balance between justice and protecting the rights of criminally insane defendants (A47)**
 Presenter: Malgorzata Garrity
 Advisor: Avram Segall, Esq.

Title: **North versus South: Perception of New Jersey dialects (A6)**
 Presenter: Hannah Gash
 Co-author: Jennifer Pardo
 Advisor: Dr. Jennifer Pardo

Title: **Vegetation coverage in the New Jersey Pinelands Reserve and how intact its canopy remains in the 21st century (A33)**
 Presenter: Jason Gowers
 Advisor: Dr. Mark Chopping

Title: **That's a wrap: How wrapper color affects candy flavor expectations and perceptions (A52)**
 Presenter: Nancy Greene
 Co-authors: Monica Jimenez, Daniel Neblock, Arturo Calderon, Yaritza Diaz, Mimi Sheraton
 Advisor: Dr. Debra Zellner

Title: **DNA sequence analysis using graph indices (A13)**
 Presenter: Pamela Guerron
 Co-author: Zeyad Boodoo
 Advisor: Dr. Aihua Li

Title: **A comparison of generalization using ultrasound and electropalatography for treatment of residual/r/errors (A34)**
 Presenter: Julie Irwin
 Advisor: Dr. Elaine Hitchcock

Title: **Parental advice and conflict coping strategies (A30)**
 Presenter: Lisa Kaiser
 Co-authors: Christopher Donoghue, Alicia Raia-Hawrylak
 Advisor: Dr. Christopher Donoghue

Title: **Identifying covert contrast in the English stops of a Spanish-influenced speaker (A45)**
 Presenter: Kurt Keena
 Advisor: Dr. Elaine Hitchcock

Title: **How do judges make decisions?: An interdisciplinary analysis of constitutional jurisprudence and legal decision-making (A36)**
Presenter: Ryan Kenny
Advisor: Dr. Ian Drake

Title: **Elimination of lymphatic filariasis in developing countries targeting *Brugia malayi* JNK (A53)**
Presenter: Tamara Kreiss
Co-author: Agnieszka Chojnowski
Advisor: Dr. John Siekierka

Title: **Infants comprehension of source and goal path terms in motion events (A10)**
Presenter: Daphne Labropoulos
Co-authors: Jessica Bury, Sara Berdeu, Alexa Steinberg
Advisor: Dr. Laura Lakusta

Title: **Inferring gene regulatory networks based mutual information (A22)**
Presenter: Ahmed Mahmoud
Co-authors: Chunguang Du, Wenwei Xiong
Advisor: Dr. Chunguang Du

Title: **Generation and characterization of ovarian specific promoter sequences in Zebrafish (*Danio rerio*) (A12)**
Presenter: Riham Makhoul
Co-author: Rohini Rajendran
Advisor: Dr. Carlos Molina

Title: **Law & Psychology: An interdisciplinary analysis of juvenile justice & intervention strategies (A8)**
Presenter: Kathryn Masters
Advisor: Avram Segall, Esq.

Title: **Does the president have the constitutional right to determine when the Senate is on break and use his recess appointment power (A58)**
Presenter: Michael Milano
Advisor: Avram Segall, Esq.

Title: **Target acquisition and tracking using low-cost ultrasonic rangefinders (A32)**
Presenter: Kevin Miller
Advisor: Dr. George Antoniou

Title: **Molecular evolution of amphibian visual genes (A9)**
Presenter: Juan Miranda
Advisor: Dr. Robert Meredith

Title: **Purification and characterization of thymidine cyclobutane dimers in solution (A25)**
Presenter: Jason Morales
Advisor: Dr. Johannes Schelvis

Title: **The use of developmental sentence scoring with 3-year-olds: A comparison of language samples collected in two contexts (A23)**
Presenter: Emily Mucchetti
Advisor: Dr. Sarita Eisenberg

Title: **Applicant contrast: How the order of resume evaluations can affect candidate ratings (A59)**
 Presenter: Daniel Neblock
 Co-authors: Debra Zellner, Veronica Schneider
 Advisor: Dr. Debra Zellner

Title: **NFL concussion litigation: The neuropsychological impact of football-related mild traumatic brain injury and the question of liability (A35)**
 Presenter: Margaret Ochner
 Advisor: Dr. Ian Drake

Title: **Language of Autism (A4)**
 Presenter: Siobhan O'Connor
 Advisor: Dr. Eileen Fitzpatrick

Title: **Integrated groundwater and surface water modeling over the White Volta Basin (A17)**
 Presenter: Felix Oteng
 Co-author: Clement Alo
 Advisor: Dr. Clement Alo

Title: **On extracting randomness from digital media (A44)**
 Presenter: Lee Painton
 Co-authors: David Heale, Chris Fleischl
 Advisor: Dr. George Antoniou

Title: **Exploring elementary school students thinking of invariance through geometric transformations (A54)**
 Presenter: Douglas Platt
 Advisor: Dr. Nicole Panorkou

Title: **Vanadium uptake and translocation in dominant plant species on an urban coastal brownfield site (A2)**
 Presenter: Yu Qian
 Co-authors: Frank Gallagher, Meiyin Wu, Qingzhi Zhu
 Advisor: Dr. Huan Feng

Title: **Student perceptions of bullying at school (A38)**
 Presenter: Noel Rozier
 Co-author: Christopher Donoghue
 Advisor: Dr. Christopher Donoghue

Title: **Protecting equality: How prohibiting consideration of race and gender in university admissions violates equal protection (A40)**
 Presenter: Sujei Sanchez
 Advisor: Dr. Ian Drake

Title: **Statistical modeling on water quality of rivers in Great Swamp Watershed (A62)**
 Presenter: Kaitlyn Scudato
 Co-authors: Haiyan Su, Meiyin Wu
 Advisor: Dr. Haiyan Su

Title: **Curbing demand: A legal and psychological look into prostitution in America (A61)**
 Presenter: Lauren Sharp
 Advisor: Dr. Ian Drake

Title: **Antecedents of leadership agency: Understanding leadership development (A19)**
Presenter: Aishwarya Shashidhar
Advisor: Dr. Valerie Sessa

Title: **Copy number potentials and whole-gene capturing abilities of helitron sequences in plants (A46)**
Presenter: Kaitlyn Socha
Co-authors: Mahmoud Jurri, Cesar Silva
Advisor: Dr. Chunguang Du

Title: **Particle aggregation patterns under thermal convection (A39)**
Presenter: Siobhan Soltau
Co-author: Leo Hentschker
Advisor: Dr. Ashwin Vaidya

Title: **The promulgation of racial profiling through immigration law (A18)**
Presenter: Rosemary Soto
Advisor: Dr. Ian Drake

Title: **Pubertal androgen exposure is related to handedness direction and strength (A3)**
Presenter: Cara Struble
Co-authors: Ruth Propper, Tad Brunye
Advisor: Dr. Ruth Propper

Title: **Ultrasound or electropalatography: Consideration of behavioral systems that affect a client's communicative performance (A49)**
Presenter: Michelle Swartz
Advisor: Dr. Elaine Hitchcock

Title: **The SNARC effect in judgment of size: Evidence for spatial representation of magnitude (A43)**
Presenter: Jaclyn Wiener
Co-author: Jessyka Venchkoski
Advisor: Dr. Yoav Arie

Title: **Fixated on the end: Infants' looking bias towards goal events (A11)**
Presenter: Katie Wiseman
Co-authors: Megan Sommer, Jessica Bury, Inae Colucio
Advisor: Dr. Laura Lakusta

Title: **Characterizing the spectral properties of (-)-Epigallocatechin 3-O-gallate (EGCG) fluorescence in solvents of different polarity (A48)**
Presenter: Michael Young
Co-authors: Ross Scott-Miller, David Rotella
Advisor: Dr. Vladislav Snitsarev

Title: **PLTL + CI --> IBIS: Merging peer-led team learning and complex instruction to build an inquiry-based instructional supplement (A55)**
Presenter: Karmen Yu
Advisor: Dr. Steven Greenstein

Poster Presentations

Block B: 3:45 pm – 5:00 pm

(Alphabetical by Presenter's Last Name)

- Title: **Preparation of *B. stearothermophilus* DHFR mutants (B49)**
Presenter: Dina Edani
Co-author: Maureen Malivert
Advisor: Dr. Nina Goodey
- Title: **A computational evaluation of the steric and electronic contributions to the stability of the structures of α - and β -D-Glucopyranose part 3: Energy versus Geometry for α - and β -D-glucopyranose (B30)**
Presenter: Maryam Abdulsalam
Co-authors: Rofe Baello, Rabih Balilli, Christian Brutofsky
Advisor: Dr. Marc Kasner
- Title: **Examining the effects of eating habits on circadian rhythm and body weight: A link between humans and zebra fish (B28)**
Presenter: Tasnia Aftab
Co-author: Sharmin Uddin
Advisor: Dr. Carlos Molina
- Title: **Effect of black tea extract on herpes simplex virus-2 infection of A549 cells (B42)**
Presenter: Anum Aftab
Advisor: Dr. Sandra Adams
- Title: **A comparison of muscle activation of concentric versus eccentric contractions of the Rectus Abdominis during sit-ups (B4)**
Presenter: Amanda Alfonso
Co-author: German Osorio
Advisor: Dr. David Middlemas
- Title: **Analyzing water transport in simulated tree branches using an imaging system (B58)**
Presenter: Sue-Anne Alonso
Co-author: Luis Quinones
Advisors: Dr. Dirk Vanderklein, Dr. Ashwin Vaidya
- Title: **The influence of experience on diagnostic problem solving in undergraduate athletic training majors in the clinical setting (B2)**
Presenter: Michelle Armonda
Advisor: Dr. Fredrick Gardin
- Title: **A potential role for 5,10-methenyltetrahydrofolate to protect flavin adenine dinucleotide in the DNA repair enzyme photolyase (B9)**
Presenter: Stephanie Avalos
Advisor: Dr. Johannes Schelvis

Title: **A computational evaluation of the steric and electronic contributions to the stability of the structures of α - and β -D-glucopyranose part 2: Natural bond orbital (NBO) analysis of monosubstituted cyclohexanes and pyrans (B39)**

Presenter: Rofe Baello

Co-authors: Christian Brutofsky, Maryam Abdulsalam, Rabih Balilli

Advisor: Dr. Marc Kasner

Title: **A computational evaluation of the steric and electronic contributions to the stability of the structures of α - and β -D-Glucopyranose part 4: Energy versus Geometry for α - and β -D-glucopyranose in aqueous solution (B20)**

Presenter: Rabih Balilli

Co-authors: Christian Brutofsky, Maryam Abdulsalam, Rofe Baello

Advisor: Dr. Marc Kasner

Title: **Job demands-resources model: Theory expansion and introduction to the influence on academic outcomes (B63)**

Presenter: Taylor Barr

Advisor: Dr. Valerie Sessa

Title: **Microwave-assisted synthesis of a water-soluble fluorescent biosensor (B11)**

Presenter: Nicholas Bertinato

Co-author: Kaba Tandjigora

Advisor: Dr. John Isidor

Title: **A computational evaluation of the steric and electronic contributions to the stability of the structures of α - and β -D-Glucopyranose part 1: Conformational analysis of monosubstituted cyclohexanes and pyrans (B34)**

Presenter: Christian Brutofsky

Co-authors: Maryam Abdulsalam, Rofe Baello, Rabih Balilli

Advisor: Dr. Marc Kasner

Title: **Early-life immigrants in middle and later life: Exploratory study (B6)**

Presenter: Jessica Bury

Co-authors: Christine Price, Angelica Wilson

Advisor: Dr. Olena Nesteruk

Title: **Effect of black tea theaflavins on Herpes Simplex Virus-2 infection of cultured cells (B17)**

Presenter: Yvelande Cajuste

Advisor: Dr. Sandra Adams

Title: **Burnout: The importance of self-care for school counseling professionals (B22)**

Presenter: Christina Celfo

Co-author: Jaclyn Macchi

Advisor: Dr. Gloria Pierce

Title: **The accuracies of nutrient labels in university food services: A quantitative study (B62)**

Presenter: Stephanie Chavarria

Co-author: Hang Zhao

Advisor: Dr. Charles Feldman

Title: **Automatically extracting a software word usage model from comments in Java (B68)**
Presenter: Kathy Chowaniec
Co-author: Leah Dave
Advisor: Dr. Emily Hill

Title: **Utilization of steam heat generated via microwave energy in seafood cooking (B55)**
Presenter: Samuel Chung
Co-authors: John Schrade, Haiyan Su
Advisor: Dr. John Specchio

Title: **What's missing? Student involvement among racial and ethnic minority and transfer students (B48)**
Presenter: Moira Curtis
Co-author: Claudia Guevara
Advisor: Dr. Leslie Kooyman

Title: **The influence of counseling and social support on levels of depression in fragile mothers (B40)**
Presenter: Megan Delaney
Advisor: Dr. Dana Levitt

Title: **Reviews of bullying victimization and teacher/parent perceptions (B36)**
Presenter: Breanna Diaz
Advisors: Dr. Soyoung Lee, Dr. Tiffany Brown

Title: **Fluorescent sensors for cations (B33)**
Presenter: Agnieszka Dubiel
Co-authors: Marlenne Delgado, Michiru Sprague
Advisor: Dr. Saliya DeSilva

Title: **Improved computational results for transition metal chemistry (B41)**
Presenter: Nashali Ferrara
Advisor: Dr. Hendrik Eshuis

Title: **Exploring digital inequality in an organizational setting (B1)**
Presenter: Vincent Forgione
Advisor: Dr. Philip Bakelaar

Title: **Strategic connections: Partnering adult 2nd degree earners with traditional undergraduates to promote student success (B27)**
Presenter: Kelly Gentry
Advisor: Dr. Kim O'Halloran

Title: **Associative learning for tone in Drosophila melanogaster (B64)**
Presenter: Bradley Gold
Advisor: Dr. Julian Keenan

Title: **Geotagger: An application to facilitate and promote collaborative, scientific inquiry (B25)**
Presenter: Spencer Kordecki
Co-authors: David Dymko, Andrew DeStefano, Paul Cushman, Adebisi Adenipekun, Christopher Loeschorn
Advisor: Dr. Jerry Fails

Title: **Proposal for future research to examine parental involvement in K-12 school food service offerings, nutrition, and child health outcomes (B57)**
 Presenter: Rachel Larkey
 Advisor: Dr. Douglas Murray

Title: **Investigating the effects of green tea polyphenols on endospore germination in *Bacillus cereus*, *B. megaterium*, and *B. subtilis* (B3)**
 Presenter: Nozrin Laskar
 Co-authors: Hassan Tahir, Ami Rana, Tin-Chun Chu, Lee Lee
 Advisor: Dr. Lee Lee

Title: **Impact of a theory based nutrition education program, plant the seed, on healthy food choices among 6th grade students (B24)**
 Presenter: Karen Lee
 Advisors: Dr. Yeonkyung Bai, Dr. Shahla Wunderlich

Title: **Moving beyond racial battle fatigue to social justice in academia (B46)**
 Presenter: Anna Flores Locke
 Co-authors: Sherlene Ayala, Sailume Walo-Roberts
 Advisor: Dr. Muninder Ahluwalia

Title: **Using technology to bridge the communication gap for children with selective mutism (B35)**
 Presenter: Ishwarya Manivannan
 Advisor: Dr. Jerry Fails

Title: **Leucine-aminopeptidase activities in heavy-metal contaminated soils from brownfields of Liberty State Park (B45)**
 Presenter: Carolyn Mathieu
 Co-authors: Diane Hagmann, Jennifer Krumin, Nina Goodey
 Advisor: Dr. Nina Goodey

Title: **Molecular evolution of nuclear hormone receptor subfamily 3 in vertebrates (B59)**
 Presenter: Ariana Merari
 Advisor: Dr. Robert Meredith

Title: **Impacts of land use on the Passaic River's water quality (B7)**
 Presenter: Lindsey Mirrer
 Advisor: Dr. Meiyin Wu

Title: **The relationship between cooking confidence and body mass index among recent college graduates (B56)**
 Presenter: Vanessa Morley
 Advisor: Dr. Shahla Wunderlich

Title: **Aggregation of alpha synuclein (B32)**
 Presenter: Michael Munoz
 Co-author: Robert Booth
 Advisor: Dr. David Talaga

Title: **Isolation and characterization of two novel mycobacterium smegmatis bacteriophage from New Jersey soil (B52)**
 Presenter: Nadeem Obaydou
 Co-authors: Yasmeen Abboud, Sheetal Agarwal, Dwa'a Alkhalaf, Randy Arsheed, Ikenna Anyanwu, Victoria Borden, Alyssa Boudreau, William Brooks, Nico Carbone, et al.
 Advisor: Dr. Sandra Adams

Title: **If we promote it, will MSU students come? Marketing roller derby to college students (B26)**
 Presenter: Connor O'Brien
 Co-authors: Yarissa Marte, Daniel Bonino
 Advisor: Dr. Ricard Jensen

Title: **One set of global accounting standards: Is this a realistic possibility? (B60)**
 Presenter: Gifty Oduro
 Co-authors: Gifty Oduro, Lan Luo, Neveen Yanny, Anita Wenzel
 Advisor: Dr. Agatha Jeffers

Title: **Learning meaning by writing extended metaphor (B12)**
 Presenter: Christopher Parker
 Advisor: Dr. Mark Weinstein

Title: **The effects of EGCG-stearate on the cellular processes of HSV-1 infected Vero cells (B31)**
 Presenter: Valerie Paschalis
 Advisor: Dr. Quinn Vega

Title: **Geothermobarometry of the cordierite-bearing metapelites from the Hudson Highlands, Southeastern NY (B44)**
 Presenter: Jay Patel
 Co-author: Matthew Gorrington
 Advisor: Dr. Matthew Gorrington

Title: **The inhibitory effects of EGCG and EGCG-stearate on Herpes Simplex Virus 1 (HSV-1) in cultured human epithelial A549 cells. (B15)**
 Presenter: Shivani Patel
 Advisor: Dr. Lee Lee

Title: **Comparison of muscle activation between dumbbell and elastic resistance in a bicep curl (B8)**
 Presenter: Spiro Petritsis
 Co-author: Matthew Barlow
 Advisor: Dr. Steven Leigh

Title: **Factors associated with pumping breast milk on campus (B18)**
 Presenter: Gina Pope
 Co-authors: Lauren Dinour, Yeon Bai
 Advisor: Dr. Lauren Dinour

Title: **Effects of land use on water quality of the Passaic River through Coliform bacteria levels (B65)**
 Presenter: Myla Ramirez
 Co-authors: Jewel Lipps, Paul Tomasula
 Advisor: Dr. Meiyin Wu

Title: **Project DASH: Divas against the spread of HIV/AIDS: A pilot exploration on HIV risk and prevention among African American HIV+ women and their adolescent daughters (B54)**
 Presenter: Lauren Ramos
 Advisor: Dr. Ndidi Amutah

Title: **Fabrication of SAM based molecular tunnel junctions: Challenges and solutions (B53)**
 Presenter: Brian Ruderman
 Advisor: Dr. Patrick Truitt

Title: **Green tea polyphenols enhance the activity of antibiotics (B43)**
 Presenter: Syed Samy
 Co-author: Ayuni Yussof
 Advisor: Dr. Lee Lee

Title: **Expression and purification of a potential antifolate target, dihydrofolate reductase from B. malayi (B69)**
 Presenter: Karla Sanchez
 Advisor: Dr. Nina Goodey

Title: **Disappointed and distant: The impact of parents' negative views of non-heterosexuality on the sexual lives of their LGBTQ adolescent children (B37)**
 Presenter: Paul Santos
 Advisors: Dr. Lisa Lieberman, Dr. Eva Goldfarb

Title: **Effects of hard-clam grow outs on benthic invertebrate communities in Barnegay Bay, NJ – Year 1 (B29)**
 Presenter: Rebecca Shell
 Advisor: Dr. Robert Prezant

Title: **Inferring biological networks using boolean-sparse network inference methods (B47)**
 Presenter: Vladimir Solano
 Co-authors: Wenwei Xiong, Chunguang Du
 Advisor: Dr. Chunguang Du

Title: **Structural characterization of thymine cyclobutane dimers in solution (B5)**
 Presenter: Marc Soojian
 Advisor: Dr. Johannes Schelvis

Title: **The migratory effect of the World Trade Center particulate matter on human pulmonary fibroblasts (B21)**
 Presenter: Felix Dailey Sterling
 Co-authors: Daseul Baik, Dahiana Caicedo
 Advisor: Dr. Ann Marie DiLorenzo

Title: **Genome annotation of two novel Mycobacterium phages (B10)**
 Presenter: Nandini Surendranathan
 Co-authors: Yasmeen Abboud, Sheetal Agarwal, Dwa'a Alkhalaf, Ikenna Anyanwu, Randy Arsheed, Victoria Borden, Alyssa Boudreau, William Brooks, Nico Carbone, Anthony Disteso, et al.
 Advisor: Dr. Kirsten Monsen-Collar

Title: **The effect of EGCG and EGCG-stearate on bacterial biofilm formation (B16)**
 Presenter: Hassan Tahir
 Co-authors: Nora Mustafa, Chris Chen, Lee Lee
 Advisor: Dr. Lee Lee

Title: **Meaning-making after caregiving: How counselors can help bereaved family caregivers engage in a search for meaning (B14)**
 Presenter: Kim Tassinari
 Advisor: Dr. Harriet Glosoff

Title: **Homes in and next to flood zones and their financial demographic (B50)**
 Presenter: Matthew Trenk
 Advisor: Dr. Joshua Galster

Title: **Taking the T out of LGBT: A foundation for counseling the transgender community (B61)**
 Presenter: Stacy Wahlstrom
 Co-authors: William Baker, Jerry Collins
 Advisor: Dr. Matthew Shurts

Title: **Determining the reliability between live and video observations of foot type in athletes (B13)**
 Presenter: Jennifer Williams
 Advisor: Dr. Fredrick Gardin

Title: **Forest based energy acceptability and profitability in Southern United States (B23)**
 Presenter: Bernabas Wolde
 Co-authors: Pankaj Lal, Deniz Ozenbas
 Advisor: Dr. Pankaj Lal

Title: **Noyce at Montclair: Preparing the effective elementary mathematics teacher (B51)**
 Presenter: Trina Wooten
 Co-authors: Erin Krupa, Jennifer Robinson
 Advisor: Dr. Steven Greenstein

Title: **Sexual harassment prevention education: Exploring factors influencing attitude toward bystander intervention in college women (B19)**
 Presenter: Amy Zavadil
 Advisor: Dr. Brian Carolan

Title: **Comparison of nutrient retention in vegetables cooked by conventional and inverter microwave ovens (B38)**
 Presenter: Hang Zhao
 Advisor: Dr. Yanyan Li

Alphabetical List of Presenters, Co-authors, Advisors and Moderators

A

-
- Abboud, Yasmeen
Co-author · 22, 23
- Abdulrazaq, Dina
Co-author · 7
- Abdulsalam, Maryam
Co-author · 19
Presenter · 18
- Abo-Zed, Abdelrhman
Presenter · 12
- Adam, Amna
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Assistant Professor, School of Communication and Media,
College of the Arts

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Assistant Professor, Health and Nutrition Sciences,
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Ndidiamaka N. Amutah received her PhD in Maternal and Child Health at the University of Maryland, College Park School of Public Health. Her current research interests include health disparities, reproductive health, infant mortality and HIV/AIDS in ethnic minority populations. She is a member of the American Public Health Association and is currently active in the Maternal and Child Health section. She has worked as a researcher in community-based research settings in a variety of areas including maternal and child health and HIV/AIDS. She has published and presented at national and international conferences on health disparities.

Dr. Antoinette J. Pole

Assistant Professor, Political Science and Law,
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Antoinette DJ. Pole is an assistant professor of Political Science and Law. After earning her Ph.D. at CUNY, Graduate School and University Center in Political Science she spent two years as post-doctoral researcher for the Taubman Center at Brown University. Her research focuses on information technology and politics; state politics; and food and politics. She has published two books and numerous peer-reviewed journal articles exploring theoretical questions related to representation, political participation and community.

Dr. Diana Thomas

Professor, Mathematical Sciences,
College of Science and Mathematics

Dr. Diana Thomas is a professor of mathematics and director of the Center for Quantitative Obesity Research at Montclair State University. Her current research involves applications of mathematics to guide and inform patients regulating their body weight. Her models combine data collected from clinical trials involving human body weight regulation stretching back over a century to arrive at mathematically driven conclusions. Her work is truly interdisciplinary; she works in close collaboration with geneticists and nutritionists and has appeared in medical journals.

Dr. Mark L. Berenson

Professor, Information and Operations Management,
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Mark L. Berenson is a member of the Department of Information and Operations Management and Professor Emeritus, Statistics, Zicklin School of Business, Baruch College – CUNY. He has received several awards for excellence in teaching and his research has been published in a variety of journals in such diverse fields as decision sciences, statistics, psychometrics, educational research, management sciences, health administration, behavioral medicine and surgical oncology. He is coauthor of 11 books, including Basic Business Statistics: *Concepts and Applications*. He is also a former president of the New York Metropolitan Area Chapter of the American Statistical Association. He has been involved in global human rights issues and has developed and co-taught a GenEd course on international issues.

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