Promoting Collaboration Across Disciplines

9th Annual Student Research Symposium

Sunday, April 26, 2015 | 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

Montclair State University
montclair.edu
To the faculty and student participants of the University-wide Montclair State Student Research Symposium:

This event, with some 230 participants from all across the University, expresses 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 multi-disciplinary 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 are the essential qualities of a successful life? Does poetry matter?) 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.

Dr. Willard Gingerich
Provost and Vice President for Academic Affairs
Schedule

8:00 – 8:20 am  **Registration and Continental Breakfast**
University Hall Grand Hallway, 1st Floor

8:20 – 8:30 am  **Opening Remarks: Dr. Willard Gingerich**
Provost and Vice President for Academic Affairs
University Hall Room 1070

8:30 – 9:15 am  **Interdisciplinary Panel Presentation**
Montclair State University Faculty Members
University Hall Room 1070

9:20 – 10:15 am  **Poster Session Block A**
University Hall Conference Center, 7th Floor

10:20 – 11:40 am  **Oral and Multimedia Presentations Block A**
Room assignments listed in program

11:45 – 1:05 pm  **Oral and Multimedia Presentations Block B**
Room assignments listed in program

1:10 – 1:55 pm  **Lunch**
Student Center Ballroom

2:00 – 3:00 pm  **Poster Session Block B**
University Hall Conference Center, 7th Floor

3:05 – 4:25 pm  **Oral and Multimedia Presentations Block C**
Room assignments listed in program

4:30 pm  **Award Presentations and Closing Remarks**
General Symposium Awards and Closing Remarks
Outstanding Interdisciplinary Presentations and Posters
University Hall 1070
Oral and Multimedia Presentations

Block A: 10:20 am – 11:40 am

1. Graduate Award Nominees – University Hall 2026
   Moderator: Dr. Naomi Liebler

   Title:  CRISPR/Cas system in genome engineering
   Presenter: Michael Young     Advisor: Dr. Carlos Molina

   Title:  A virtual communication revolution: Analysis of the use of social media by organizations
   Presenter: Saba Akram     Advisor: Dr. Yi Luo

   Title:  A family therapist matrix for working with adolescent and sibling substance abuse
   Presenter: David Lardier     Advisor: Dr. Jon Caspi
   Co-author(s): Veronica Barrios, Jon Caspi

   Title:  Investigating the sex differences in death anxiety and emotion regulatory behavior among emerging adults
   Presenter: James Morecraft     Advisor: Dr. Janice Stapley
   Co-author: Janice Stapley

2. Undergraduate Award Nominees – University Hall 2025
   Moderator: Dr. Ronald Sharps

   Title:  A theoretical study of the factors that contribute to the conformational energy of six-membered rings
   Presenter: Maryam Abdulsalam     Advisor: Dr. Marc Kasner
   Co-author(s): Rabih Balili, Rofe Baello, Robert Booth, Sandeep Suresh

   Title:  Bridging the 2nd and 3rd dimensions
   Presenter: Evans Mbai     Advisor: Dr. Lauren Carr

   Title:  Swear words in American English: A corpus based study
   Presenter: Michael Ramos     Advisor: Dr. Susana Sotilla
   Co-author: Sarah Zughbi

3. Education Policy/Curricula/Pedagogy – University Hall 2031
   Moderator: Dr. Dorothy Rogers

   Title:  Competing agendas: Sustaining the mission in admissions
   Presenter: Todd Bates     Advisor: Dr. Kathryn Herr
   Co-author: Tina Jacobowitz

   Title:  Beyond the scope: Education reform and the achievement gap
   Presenter: Michael Caracappa     Advisor: Dr. Ian Drake

   Title:  What happens in Vegas doesn’t always stay in Vegas: Negotiating the curriculum leads to agency
   Presenter: Susan D’Elia     Advisor: Dr. Monica Taylor
   Co-author(s): Stephanie Tarnowski, Sa-Qwona Clark, Brenna Bohny, Graziela Lobato, Sara Wasserman
### 4. Ecology and Earth Science – University Hall 2013
**Moderator:** Dr. Paul Bologna

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<tr>
<th>Title</th>
<th>Presenter</th>
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<tr>
<td>Impacts of land use and land cover composition on macroinvertebrate assemblages at both catchment basin and riparian scales along the Passaic River, New Jersey</td>
<td>Michael Levinson</td>
<td>Dr. Meiyin Wu</td>
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<td>Asssessing the population density, size distribution, and biomass of the long-spined sea urchin, <em>Diadema antillarum</em>, in St. John, U.S.V.I.</td>
<td>Jami Luckhardt</td>
<td>Dr. Paul Bologna</td>
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<td>Is soil pollution starving trees? Starch analysis of <em>Betula populifolia</em> and <em>Populus</em> spp. in an abandoned urban brownfield</td>
<td>Ariel Flood</td>
<td>Dr. Dirk Vanderklein</td>
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<td>Geochmical analysis of Antarctic sediment cores from Prydz Bay site for the purpose of reconstructing the paleo-environment during the Eocene-Oligocene</td>
<td>Triantafilo Miriagos</td>
<td>Dr. Sandra Passchier</td>
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<td>Threshold behavior of a marine-based sector of the east Antarctic ice sheet in response to early pliocene ocean warming</td>
<td>Melissa Hansen</td>
<td>Dr. Sandra Passchier</td>
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<td>Sandra Passchier, Boo-Keun Khim, Buhan Song, Trevor Williams</td>
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### 5. Counseling – University Hall 2012
**Moderator:** Dr. Harriet Glosoff

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<tr>
<td>Counseling gay men of color: Understanding dating, sexual-risk taking, and microaggressions through social media</td>
<td>Carlos Flores</td>
<td>Dr. Leslie Kooymman</td>
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<td>Experiences of successful African American women raised by mothers in low-income communities</td>
<td>Ebony White</td>
<td>Dr. Amanda Baden</td>
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<td>A family therapist matrix for working with adolescent and sibling substance abuse</td>
<td>David Lardier</td>
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<td>Brain-based counseling: The why and how of applying neuroscience to practice</td>
<td>Kathy Shoemaker</td>
<td>Dr. Harriet Glosoff</td>
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6. **Food/Weight – University Hall 2011**
Moderator: Dr. Douglas Murray

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<td>Food security in Tanzania and South Sudan</td>
<td>Saning'o Kimani</td>
<td>Dr. Elizabeth Wishnick</td>
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<td>Chefs, nutrition, and public health: What are they modeling?</td>
<td>Kathleen Gaffney</td>
<td>Dr. Douglas Murray</td>
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<td>Co-author(s): Douglas Murray, Meena Mahadevan</td>
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<td>Shaping Elizabeth: A case study of community partnerships</td>
<td>Jacqueline Gifuni</td>
<td>Dr. Eva Goldfarb</td>
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<td>Counselor values and body image in counseling</td>
<td>Kimberly Lovato</td>
<td>Dr. Dana Levitt</td>
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<td>Co-author: Connie Ducaine</td>
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7. **Literature – University Hall 2010**
Moderator: Dr. Michele Knobel

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<td>Cannibalism, knots, and indigestion: Stomaching Shakespeare’s body</td>
<td>Bryan Davis</td>
<td>Dr. Naomi Liebler</td>
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<td>Sleep across different stages</td>
<td>Sue Ellen Lian</td>
<td>Dr. Naomi Liebler</td>
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<td>The foreign king on an English throne: Charles I and the redrawing of Englishness in Milton’s revolutionary prose</td>
<td>Courtney Van Saders</td>
<td>Dr. Jeffrey Miller</td>
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<td>The portrayal of war in French theatrics: The perspectives of Eugène Ionesco</td>
<td>Cala Fils</td>
<td>Dr. Lois Oppenheim</td>
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8. **The Office and Work – University Hall 2009**
Moderator: Dr. Agatha Jeffers

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<td>On the relation between social informal learning activities and innovative work behavior in the workplace</td>
<td>Maike Gerken</td>
<td>Mien Segers</td>
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<td>Should introverts act more like extroverts in the workplace?</td>
<td>Rosemarie Salvatore</td>
<td>Dr. Todd Kelshaw</td>
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<td>Classical Anatolian industrial device points to late-Roman adoption of automated machinery</td>
<td>Carmine Esposito</td>
<td>Dr. Deborah Chatr Aryamontri</td>
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Title: The fault of the “housewives”: A historical review of how gender is related to pay, pedagogy and students in first-year composition  
Presenter: Vera Lentini  Advisor: Dr. Melinda Knight

Title: Citizens united: The effects of corporate influence on the political process  
Presenter: Brandon Citer  Advisor: Dr. Ian Drake

9. An International Model for STEM Student Collaboration – University Hall 2008  
Moderator: Dr. Carlos Molina

Title: 100K strong in Chile for CSAM students - A model for international scientific and educational collaboration among STEM undergraduate students  
Presenter: Zareen Rahman  Advisor: Dr. Mika Munakata

Title: CRISPR/Cas System in genome engineering  
Presenter: Michael Young  Advisor: Dr. Carlos Molina

Title: The application of the CRISPR/Cas9 system in cancer  
Presenter: Justin Vercellino  Advisor: Dr. Carlos Molina  
Co-author(s): Bushra Ali, Maria Teresa Gomez

Title: CRISPR-Cas9 in neuroscience  
Presenter: Shakeera Walker  Advisor: Dr. Carlos Molina  
Co-author(s): Valeria Labra, Andres Fuentes

Title: CRISPR/Cas9 plant genome editing  
Presenter: Nashali Ferrara  Advisor: Dr. Carlos Molina  
Co-author(s): Nicole Jaronsky, Javier Villacreses

Title: CRISPR-Cas systems and their potential applications in microbiology  
Presenter: Pamela Jumbo  Advisor: Dr. Carlos Molina  
Co-author(s): Alejandro Olmos, Stephanie Slevos

10. Chemistry Part I – University Hall 2007  
Moderator: Dr. Henk Eshuis

Title: Conformational dynamics of substituted tetrahydropyrans: A computational analysis  
Presenter: Robert Booth  Advisor: Dr. Marc Kasner

Title: A theoretical study of the factors that contribute to the conformational energy of six-membered rings  
Presenter: Maryam Abdulsalam  Advisor: Dr. Marc Kasner  
Co-author(s): Rabih Balilli, Rofe Baello, Robert Booth, Sandeep Suresh

Title: A computational study of the contributions to the relative stability of the axial and equatorial conformers of d-glucopyranose  
Presenter: Rabih Balilli  Advisor: Dr. Marc Kasner  
Co-author(s): Maryam Abdulsalam, Rofe Baello, Robert Booth, Sandeep Suresh

Title: Accurate interaction energies using the random phase approximation for problematic dispersion-bound complexes  
Presenter: Craig Waitt  Advisor: Dr. Henk Eshuis
Oral and Multimedia Presentations

Block B: 11:45 am – 1:05 pm

1. Arts/Music – University Hall 2006
    Moderator: Dr. Yi Luo

    Title: Bridging the 2nd and 3rd dimensions
    Presenter: Evans Mbai
    Advisor: Dr. Lauren Carr

    Title: Ancient Greek acoustic technology: The extraordinary case study of epidaurus
    Presenter: Alexander Campbell
    Advisor: Dr. Deborah Chatr Aryamontri

    Title: Auditory learning in drosophila
    Presenter: Brianna D’Elia
    Advisor: Dr. Julian Keenan
    Co-author(s): Claudia Ko, Alexa Decker

    Title: Music works
    Presenter: Darlyne Janvier
    Advisor: Dr. Eric Miller

2. Government/Law/Politics – University Hall 2004
    Moderator: Dr. Steven Leigh

    Title: A debilitated democracy: Ecuador’s encounter with presidentialism and populism
    Presenter: Mishella Romo
    Advisor: Dr. Tony Spanakos

    Title: Israeli strategy: Miscalculations in the second Lebanese war
    Presenter: William Twisdale
    Advisor: Dr. Brian Smith

    Title: Lived experiences of women service members transitioning into civilian life: A qualitative study
    Presenter: Meghan Reppert
    Advisor: Dr. Harriet Glosoff

    Title: Humane approaches for the treatment of Central American minors entering the US border
    Presenter: Debora Cubias
    Advisor: Dr. Ian Drake

3. Linguistics – University Hall 2002
    Moderator: Dr. Helenrose Fives

    Title: Swear words in American English: A corpus based study
    Presenter: Michael Ramos
    Advisor: Dr. Susana Sotillo
    Co-author: Sarah Zughbi

    Title: Karaoke for accent reduction
    Presenter: Liubou Shefarevich
    Advisor: Dr. Jonathan Howell

    Title: Assessment and feedback: Examining the relationship between self-assessment and blind peer- and teacher-assessment in TOEFL writing
    Presenter: Meghan Bratkovich
    Advisor: Dr. Helenrose Fives
4. Race in the US – University Hall 2025  
Moderator: Dr. Melinda Knight

Title: African-Americans in 19th century Long Island through the lens of the media  
Presenter: Dante Dallavalle  
Advisor: Dr. Christopher Matthews

Title: The "lost generation(s)" and the problem of American identity: 1890s-1920s  
Presenter: Gloria Lugo  
Advisor: Dr. Melinda Knight

Title: Race-class intersections in a high school teaching context  
Presenter: Brian Ford  
Advisor: Dr. Jeremy Price

5. Women and Perceptions of Self in Society – University Hall 2026  
Moderator: Dr. Yasemin Besen-Cassino

Title: Edna's journey from art to artist  
Presenter: Alexander Friebely  
Advisor: Dr. Patricia Matthew

Title: A human bridge to universal truth: The transcendentalist guide in Alcott's moods  
Presenter: Katherine Van Frank  
Advisor: Dr. Monika Elbert

Title: Possession: The female self in the hands of patriarchy in Chopin's The Awakening  
Presenter: Kristen Bryfogle  
Advisor: Dr. Patricia Matthew

Title: The need for self preservation through sacrifice in The Awakening  
Presenter: Rebekkah Scott  
Advisor: Dr. Patricia Matthew

6. Business and its Changing Face – University Hall 2031  
Moderator: Dr. Ram Dubey

Title: Aggregate tariff selections in the United States and their modern economic determinants  
Presenter: David Moya Gamboa  
Advisor: Dr. Ram Dubey

Title: A comparison of inventory valuation under US GAAP and IFRS  
Presenter: Gifty Oduro  
Advisor: Dr. Agatha Jeffers  
Co-author: Adwoa Boachie

Title: Can claims on retargeted ads alter decision criteria?  
Presenter: Marta Hanaka  
Advisor: Dr. Patrali Chatterjee  
Co-author(s): Patrali Chatterjee, Alana Gavurin, Artem Yevtushenko, Matthew Szewczyk

Title: Perfect accent  
Presenter: Erin Gleason  
Advisor: Dr. Archana Kumar  
Co-author(s): Ahnia Bray, Annalise Clayton
7. Environmental Issues NY-NJ – University Hall 2013
Moderator: Dr. Stefanie Brachfeld

Title: Sediment mobility in New York bight apex and Its environmental implications
Presenter: Vicky Sekkas
Advisor: Dr. Sandra Passchier

Title: Analysis of water quality in New Jersey
Presenter: Kaitlyn Scrudato
Advisor: Dr. Haiyan Su

Title: Assessing the impact of bureaucracy and illegal collection of fossils on paleontological resources
Presenter: Jeff Nuccetelli
Advisor: Dr. Gregory Pope

Title: Temporal and spatial relationship of adult and Planula chrysaora quinquecirrha Barnegat Bay, NJ
Presenter: Dena Restaino
Advisor: Dr. Paul Bologna
Co-author(s): John Gaynor, Paul Bologna, Robert Meredith

Title: Relationship between particle size, extracellular enzymes, and heavy metals
Presenter: Diane Hagmann
Advisor: Dr. Nina Goodey
Co-author(s): Eleanor Ojinnaka, Thamanna Misbah, Danielle Le Roux

8. God and the Bible – University Hall 2012
Moderator: Dr. Glen Gill

Title: God’s word and the realm outside time and space
Presenter: Robert Barrows
Advisor: Dr. Glen Gill

Title: The oceanic leviathan
Presenter: Kerrin Graul
Advisor: Dr. Glen Gill

Title: Logos, tricksters: The women of the Bible
Presenter: Caroline Smith
Advisor: Dr. Glen Gill

9. Evaluation – University Hall 2011
Moderator: Dr. Jennifer Urban

Title: Challenges in international evaluation research: Preparation, protocols, and process
Presenter: Victoria Illnick
Advisor(s): Dr. Jennifer Urban, Dr. Miriam Linver
Co-author(s): Rebecca Jensen, Marisa MacDonnell, Lauren Gama, Veronica Barrios, Lisa Chauveron

Title: Composing professional partnerships: A space for dialogue across the professional continuum
Presenter: Auriela Selimi
Advisor: Susan D'Elia
Co-author(s): Ashley Rillo, Nicole Arencibia, Stephen Malone

Title: Teacher research through evaluation rubric
Presenter: Kristin Trabona
Advisor: Dr. Michele Knobel
Co-author(s): Candice Chiavola, Francesca Ciotoli
Title: The path to K-12 science teacher leadership: A preliminary inquiry of teachers working toward Leadership
Presenter: Zareen Rahman          Advisor: Dr. Mika Munakata, Dr. Monica Taylor, Dr. Emily Klein
Co-author(s): Jason McManus, Kristen Trabona

10. Disease and Molecular Biology – University Hall 2010
    Moderator: Dr. Lee Lee

Title: In vitro synergetic antiviral activity of black tea theaflavins and acyclovir on herpes simplex virus types 1 and 2 in A549 cells
Presenter: Cody Berkefeld          Advisor: Dr. Sandra Adams

Title: Inhibition of herpes simplex virus 2 infection in cultured cells by EGCG and EGCG-stearate
Presenter: James Stamos           Advisor: Dr. Sandra Adams

Title: Green tea polyphenols, EGCG and EGCG-stearate as potential inhibitors of herpes simplex virus-1 in human epithelial A549 cells
Presenter: Shivani Patel          Advisor: Dr. Lee Lee

Title: Green tea polyphenols, erythromycin and tetracycline synergistically inhibit the growth of e. coli and Staphylococcus aureus
Presenter: Siti Ayuni Mohammed-Yussof  Advisor: Dr. Lee Lee

Oral and Multimedia Presentations
    Block C: 3:05 pm – 4:25 pm

1. Literature, Teaching, and Education – University Hall 2009
    Moderator: Dr. David Galef

Title: Inspiring students to read: Using hint fiction to fill in the gaps
Presenter: Brett Conrad            Advisor: Dr. David Galef

Title: The representation of Arab-American characters in children's/adolescent literature
Presenter: Ali Zeidan               Advisor: Dr. Sumi Hagiwara

Title: A medieval parody for modern times: "El rapto del Santo Grial"
Presenter: Joseph Gonzalez         Advisor: Dr. Linda Gould Levine

Title: Textual silences in postwar Spain: Carmen Laforet's Nada
Presenter: Reyther Ortega          Advisor: Dr. Linda Gould Levine

Title: Rodney Faulk as a literary critic: Self-criticism in Javier Cercas
Presenter: Yeri Lopez              Advisor: Dr. Linda Gould Levine
2. Gender – University Hall 2008
Moderator: Dr. Sangeeta Parashar

Title: The increasing complexity of gender stereotypes in Shakespeare’s tragedies
Presenter: Solmaaz Houtan  Advisor: Dr. Naomi Liebler

Title: Investigating the differences in motivation, attitude, and behavioral intention between Hispanics and Non-Hispanics soccer fans across gender lines
Presenter: Ana Silva  Advisor(s): Dr. Yam B. Limbu, Dr. Ricard Jensen
Co-author(s): Shirley Layme-Sosa, Scott Du Barry, Paul Tarnawski

Title: How woman’s empowerment affects domestic violence in Pakistan
Presenter: Muhammad Raza  Advisor(s): Dr. Bradley Van Eden-Moorfield
Co-author: Linda Baron Cortes

3. Health/Mental Health – University Hall 2007
Moderator: Dr. Sandra Lopez-Baez

Title: The cell signaling effects of EGCG-stearate on HSV-1 infected vero cells
Presenter: Valerie Paschalis  Advisor: Dr. Quinn Vega

Title: Handling the halves: Unilateral hand clenching as a method for studying brain lateralization
Presenter: Mark Zuppichini  Advisor: Dr. Ruth Propper

Title: Autism: Defending those who don’t know any better
Presenter: Thomas Kingeter  Advisor: Dr. Ian Drake

4. Social Media – University Hall 2006
Moderator: Dr. Ricard Jensen

Title: A virtual communication revolution: Analysis of the use of social media by organizations
Presenter: Saba Akram  Advisor: Dr. Yi Luo

Title: Super Bowl ad effectiveness
Presenter: Juliet Mendez  Advisor: Dr. Yam B. Limbu
Co-author(s): Amy Luque, Lynda Okeke, Kessia Williams

Title: Does stadium atmospherics really matter? Examining the associations between sports stadium atmospherics and fans behavioral intentions
Presenter: Jarrell Lozada  Advisor(s): Dr. Yam B. Limbu, Dr. Ricard Jensen
Co-author(s): Rick Santos, Garrett Rees

Title: Are major league soccer fans really different from major league baseball fans: A comparative study of fan behavior
Presenter: John Ratta  Advisor: Dr. Ricard Jensen
Co-author(s): Victoria Dewart, Michael Corozine, Logan Amato

Title: Does social media influence football fan behavior? Evidence from MetLife Stadium’s social media campaign
Presenter: Tringa Hoti  Advisor(s): Dr. Yam B. Limbu, Dr. Ricard Jensen
Co-author(s): Chang Kim, Marta Hanaka, Artem Yevtushenko
5. Terrorism/Brutality – University Hall 2004  
Moderator: Dr. Elizabeth Emery

Title: Angelo M. Codevilla's adaptation of the just war theory in American foreign policy: Dealing with terrorism  
Presenter: Kamila Kolodynska  
Advisor: Dr. Brian Smith

Title: Codevillian approach: Understanding the “ends” of terrorism  
Presenter: Travis Gross  
Advisor: Dr. Tony Spanakos

Title: The savage killings of Albinos in Tanzania: Rooted in ignorance, hatred, discrimination and superstitious beliefs  
Presenter: Seraphine N'zue-Agbadou  
Advisor: Dr. Benjamin Hadis

Title: The role of men in the perpetuation and eradication of female genital mutilation  
Presenter: Mame Kani Diop  
Advisor: Dr. Pearl Stewart

Title: Reawakening the past: The unforgettable trauma of the French Holocaust  
Presenter: Julie Rimerman  
Advisor: Dr. Elizabeth Emery

6. Astronomy and Physics – University Hall 2002  
Moderator: Dr. Marc Favata

Title: Nonlinear gravitational-wave memory from merging binary black holes  
Presenter: Goran Dojcinoski  
Advisor: Dr. Marc Favata

Title: Gravitational lensing of light near black holes  
Presenter: Nicholas Drywa  
Advisor: Dr. Marc Favata

Title: Modeling gravitational waves from elliptical binaries  
Presenter: Blake Moore  
Advisor: Dr. Marc Favata

Title: On the 3-dimensional fluid-structure interaction of flexible fibers in a flow  
Presenter: Ryan Allaire  
Advisor: Dr. Bogdan Nita

7. Chemistry Part 2 – University Hall 2025  
Moderator: Dr. Henk Eshuis

Title: A novel fluorescent sensor for cations with an additional PET pathway to suppress protons signals  
Presenter: Lesly Gomez  
Advisor: Dr. Saliya De Silva

Title: Ionic liquid fluorescent sensors for cations  
Presenter: Jaelene Torres  
Advisor: Dr. Saliya De Silva

Title: Expression and purification of a potential antifolate target, dihydrolfate reductase from B. Malayi  
Presenter: Karla Sanchez  
Advisor: Dr. Nina Goodey

Co-author(s): Romy Perez-Abraham, Ulrich Gubler, John Siekierka, Nina Goodey
8. Environmental Policy and Management – University Hall 2026  
Moderator: Dr. Gregory Pope

Title: Should hydraulic fracturing be prohibited under the safe drinking water act?: An interdisciplinary analysis of the law and policy behind the controversial process of extracting natural gas  
Presenter: Zahra Mustamand  Advisor: Dr. Ian Drake

Title: Assessing the flood mitigation potential of water resource reservoirs  
Presenter: Matthew Del Ciello  Advisor: Dr. Joshua Galster  
Co-author: Joshua Galster

Title: Urban simulation models based on cellular automata and data mining for multiple cities  
Presenter: Xu Du  Advisor: Dr. Aparna Varde

Title: Lucky: A geographical interpretation of America's lottery winners  
Presenter: Keyan Ostad-Hashemi  Advisor: Dr. Gregory Pope

9. Math and Physics – University Hall 2031  
Moderator: Dr. Ashuwin Vaidya

Title: Interlace polynomial of a special eulerian graph  
Presenter: Christian Hyra  Advisor: Dr. Aihua Li

Title: Randic connectivity indices of cycle based graphs  
Presenter: Jhonny Almeida  Advisor: Dr. Aihua Li

Title: Numerical study of body shape and wing flexibility in fluid structure interaction  
Presenter: Peter Nolan  Advisor: Dr. Ashuwin Vaidya

Title: Observations on the transition to equilibrium of hinged bodies in a flow  
Presenter: Doralia Castillo  Advisor: Dr. Ashuwin Vaidya  
Co-author: Karina Soriano
Poster Presentations
Block A: 9:20 am – 10:15 am
(Alphabetical by Presenter’s Last Name)

Graduate Award Nominees for Poster Presentations
Title: Investigative analysis on ancient marble rock at the Villa of the Antonines (A60)
Presenter: Salvatore Zerbo
Co-author(s): Stefanie Brachfeld, Gregory Pope, Deborah Chatr Aryamontri, Laying Wu, Timothy Renner
Advisor: Dr. Stefanie Brachfeld

Title: Is early adolescent self-regulation associated with the 5 Cs of positive youth development? Findings from Scottish youth (A11)
Presenter: Lisa Chauveron
Co-author(s): Miriam Linver, Jennifer Urban, Veronica Barrios, Lauren Gama, Rebecca Jensen, Victoria Illnick, Marisa MacDonnell
Advisor(s): Dr. Miriam Linver, Dr. Jennifer Urban

Title: SLP graduate students’ perceived preparedness to work with culturally and linguistically divers populations (A43)
Presenter: Melissa Rotsides
Co-author: Valerie Johnson
Advisor: Dr. Valerie Johnson

Undergraduate Award Nominees for Poster Presentations
Title: Progress on the design and synthesis of alternate substrates and inhibitors of indole-3-glycerol phosphate (A4)
Presenter: Robert Barrows
Advisor: Dr. Dave Konas

Title: FDA and the First Amendment effects on off-label drug marketing (A51)
Presenter: Monica Stanislawczyk
Advisor: Dr. Ian Drake

Title: Effect of black tea extract on Herpes Simplex Virus Type-2 infection of A549 cells (A1)
Presenter: Anum Aftab
Advisor: Dr. Sandra Adams

Title: Eye-tracking fixation variation and interaction between verb boundedness and adverb type (A2)
Presenter: Froogh Aziz
Advisor: Dr. David Townsend
Title: Design of knapsack cryptosystems using certain t-superincreasing sequences (A3)
Presenter: Rob Rexler Baello
Co-author: Donald Coleman
Advisor: Dr. Aihua Li

Title: Progress on the design and synthesis of alternate substrates and inhibitors of indole-3-glycerol phosphate (A4)
Presenter: Robert Barrows
Advisor: Dr. Dave Konas

Title: Designing a learning trajectory for the classification of quadrilaterals (A5)
Presenter: Debasmita Basu
Advisor: Dr. Nicole Panorkou

Title: Infants' comprehension of spatial prepositions (A6)
Presenter: Amrita Bindra
Co-author(s): Omaris Garcia, Delores Ponton
Advisor: Dr. Laura Lakusta

Title: The ventriloquist effect increases under response deadline (A7)
Presenter: Sanjay Advani
Advisor: Dr. Yoav Arieh

Title: Combined approach to word-finding intervention: A case study (A8)
Presenter: Kelsey Burke
Advisor: Dr. Valerie Johnson

Title: Effect of synthesis conditions on the spectroscopic properties of 5,10-methenyltetrahydrofolate (A9)
Presenter: Michael Caulfield
Co-author: Jeffrey Wahome
Advisor: Dr. Johannes Schelvis

Title: Effect of “only” on prosodic focus marking (A10)
Presenter: Elizabeth Chalmers
Advisor: Dr. Jonathan Howell

Title: Is early adolescent self-regulation associated with the 5 Cs of positive youth development? Findings from Scottish youth (A11)
Presenter: Lisa Chauveron
Co-author(s): Miriam Linver, Jennifer Urban, Veronica Barrios, Lauren Gama, Rebecca Jensen, Victoria Illnick, Marisa MacDonnell
Advisor(s): Dr. Miriam Linver, Dr. Jennifer Urban

Title: Green tea Camellia sinensis inhibitory effects on the biofilm formation in Staphylococcus aureus (A12)
Presenter: Christopher Chen
Co-author(s): Hassan Tahir, Paul Levinsky
Advisor: Dr. Lee Lee
Title: Citizens united: The effects of corporate influence on the political process (A13)
Presenter: Brandon Citer
Advisor: Dr. Ian Drake

Title: Neuroscience and counseling: An integrative approach (A14)
Presenter: Thomas Conklin
Co-author: Kathy Shoemaker, Marie Daverio
Advisor: Dr. Sandra Lopez-Baez

Title: Infants’ comprehension of source and goal path terms in motion events (A15)
Presenter: Kelsey Conlon
Co-author(s): Felicia Apito, Jessica Ardis, Daphne Labropoulos, Jessica Bury
Advisor: Dr. Laura Lakusta

Title: Addressing environmental concerns of hydraulic fracturing in urban areas of western Pennsylvania using GIS (A16)
Presenter: Jason Darley
Co-author: Danlin Yu
Advisor: Dr. Danlin Yu

Title: Covert contrasts in typical and remediated productions of /r/ (A17)
Presenter: Lauren Dioguardi
Advisor: Dr. Elaine Hitchcock

Title: Eighth Amendment violations in prisons and how it affects mentally impaired inmates (A18)
Presenter: Fatou Diop
Advisor: Dr. Ian Drake

Title: Annotation of novel bacteriophage genomes from New Jersey soil (A19)
Presenter: Schyler Edwards
Co-author(s): Ericah Ligsay, Emily Adams, Sheetal Agarwal, Shefa Alkhalaf, Joseph Ambrose, Telia Anderson, Alex Binness, et al.
Advisor: Dr. Sandra Adams

Title: Conformational motions associated with ligand binding to with Apo and Holo DHFR (A20)
Presenter: Ryan Foley
Advisor: Dr. Nina Goodey

Title: An interdisciplinary approach to the solitary confinement and its ramifications on the Eighth Amendment (A21)
Presenter: Paola Garcia Alzate
Advisor: Dr. Ian Drake

Title: Getting a kick out of sports marketing - How MSU students developed smart promotion and sales strategies for the New York Red Bulls (A22)
Presenter: Valerie Iaccarino
Advisor: Dr. Ricard Jensen
<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
<th>Advisor</th>
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<tbody>
<tr>
<td>How does the theory of planned behavior affect the possibility of becoming pregnant out of marriage? (A23)</td>
<td>Sydney Joice-Casey</td>
<td>Dr. Christopher Donoghue</td>
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<tr>
<td>Effect of pH on Cry-DASH UV-damaged DNA repair activity (A24)</td>
<td>Pamela Jumbo</td>
<td>Dr. Yvonne Gindt</td>
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<td>Cooperation of authority (A25)</td>
<td>Nathan Kemper</td>
<td>Meredyth Appelbaum, AuD</td>
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<td>Effects of telicity on syntactic reanalysis in reduced relative clauses (A26)</td>
<td>Ryan King</td>
<td>Dr. David Townsend</td>
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<td>Predicted pattern of bone loss in long-term spaceflight (A27)</td>
<td>Daphne Labropoulos</td>
<td>Dr. Frederick Bonato</td>
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<td>Green tea polyphenols inhibit biofilm formation in streptococcus mutans (A28)</td>
<td>Paul Levinsky</td>
<td>Dr. Lee Lee</td>
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<td>Investigation of the oligomeric structure of cryptochrome using fluorescence (A29)</td>
<td>Mengqi Li</td>
<td>Dr. Yvonne Gindt</td>
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<td>Comparative analysis of MMP20 gene in different mammals (A30)</td>
<td>Israa Maani</td>
<td>Dr. Robert Meredith</td>
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<tr>
<td>How a team of MSU students created a sports ticket sales strategy in 24 hours: What we learned from taking part in the sports marketing association national case study (A31)</td>
<td>Alexis Marrero</td>
<td>Dr. Ricard Jensen</td>
</tr>
<tr>
<td>A Hedonic study of the surrounding contaminated area of Liberty State Park and the environmental qualities present (A32)</td>
<td>Rachel Maynard</td>
<td>Dr. Pankaj Lal</td>
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<tr>
<td>Title:</td>
<td>Crossing boundaries in undergraduate Biology education (A33)</td>
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<td>Presenter:</td>
<td>Jason McManus</td>
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<td>Co-author:</td>
<td>Dirk Vanderklein, Mika Munakata</td>
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<td>Dr. Mika Munakata</td>
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<td><strong>Somali Piracy (A34)</strong></td>
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<td>Thina Minya</td>
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<td>Dr. Elizabeth Wishnick</td>
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<td><strong>Eating rates (A35)</strong></td>
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<td>Presenter:</td>
<td>Ann Nduati</td>
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<td>Diana Thomas, Corby Martin</td>
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<td>Dr. Diana Thomas</td>
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<td><strong>Defying all odds: Understanding the ability of heavily contaminated soil to sustain life (A36)</strong></td>
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<td>Eleanor Ojinnaka</td>
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<td>Co-author(s):</td>
<td>Danielle Le Roux, Thamanna Misbah</td>
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<td>Dr. Nina Goodey</td>
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<td><strong>Suspensions in high school and their association with drug use (A37)</strong></td>
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<td>Presenter:</td>
<td>Duygu Payidarol</td>
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<td>Advisor:</td>
<td>Dr. Christopher Donoghue</td>
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<td><strong>Cloning and expression of Cryptochrome proteins from Arabidopsis thaliana (A38)</strong></td>
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<td>Presenter:</td>
<td>Mendelsohn Philippe</td>
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<td>Dr. Jim Dyer</td>
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<td><strong>A comparison of backpack load carriage with and without a hip strap (A39)</strong></td>
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<td>Presenter:</td>
<td>Loren Pigman</td>
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<td>Co-author(s):</td>
<td>Steven Leigh, Peter Hosick</td>
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<td>Dr. Steven Leigh</td>
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<td><strong>Diel habitat utilization of fish and decapod species in Great Lameshur Bay, St. Johns, USVI (A40)</strong></td>
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<td>Presenter:</td>
<td>Elizabeth Pudlak</td>
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<td>Co-author:</td>
<td>Matthew Cheung</td>
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<td>Dr. Paul Bologna</td>
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<td><strong>How to find toddlers with cognitive disabilities in another country (A41)</strong></td>
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<tr>
<td>Presenter:</td>
<td>Paula Roa</td>
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<td>Co-author:</td>
<td>Katherine Lee</td>
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<td>Dr. Peter Vietze</td>
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<td><strong>Assessing phosphorus storage in sediments of Lake Hopatcong (NJ) (A42)</strong></td>
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<td>Presenter:</td>
<td>Alessandra Rossi</td>
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<td>Co-author(s):</td>
<td>Kevin Olsen, Marco Finocchiaro, Matthew Del Ciello, Meiyin Wu</td>
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<td>Advisor:</td>
<td>Dr. Meiyin Wu</td>
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Title: SLP graduate students’ perceived preparedness to work with culturally and linguistically divers populations (A43)
Presenter: Melissa Rotsides
Co-author: Valerie Johnson
Advisor: Dr. Valerie Johnson

Title: Foraging efficiency of immature *Blatta lateralis* and *Blatella germanica* in simple and complex environments (A44)
Presenter: Stefania Ruiz
Advisor: Dr. Scott Kight

Title: Listeners perception of Voice Onset Time (VOT) (A45)
Presenter: Colleen Russell
Co-author: Kristen Shubeck
Advisor: Dr. Elaine Hitchcock

Title: A lithologic and geomorphic analysis of the Kittatinny Ridge, Appalachian Mts. (A46)
Presenter: David Sharpe
Advisor: Dr. Joshua Galster

Title: Characterization of full-length candidate genes captured by Helitrons (A47)
Presenter: Kaitlyn Socha
Co-author(s): Priscilla Cordova, Juned Ahmed, Amanda Ezeiruaku
Advisor: Dr. Chunguang Du

Title: Infants' categorization of goal and source events (A48)
Presenter: Danielle Spinelli
Co-author(s): Moira Anthony, Amanda Quinn, Katie Wiseman
Advisor: Dr. Laura Lakusta

Title: Effect of BK channel inhibition on PC12 cell migration (A49)
Presenter: Carola Springer
Co-author: Michael Young
Advisor: Dr. Elena Petroff

Title: A bioinformatics study of HSV glycoprotein structure and ligand binding of EGCG and EGCG-stearate (A50)
Presenter: James Stamos
Co-author(s): Rima Rana, Siti Ayuni Mohammed Yussof, Peter Stamos
Advisor: Dr. Lee Lee

Title: FDA and the First Amendment effects on off-label drug marketing (A51)
Presenter: Monica Stanislawczyk
Advisor: Dr. Ian Drake
Title: Common dietary concerns of residents at a rehabilitation facility as evidenced by patient satisfaction surveys (A52)
Presenter: Stephanie Suhai
Co-author: Shahla Wunderlich
Advisor: Dr. Shahla Wunderlich

Title: Crude and pure green tea polyphenols as a novel approach to inhibiting biofilm formation in Pseudomonas aeruginosa (A53)
Presenter: Hassan Tahir
Co-author: Christopher Chen, Lee Lee
Advisor: Dr. Lee Lee

Title: Assessment of home range, behavior, and population intermixing among bottlenose dolphins in New Jersey (A54)
Presenter: Colleen Talty
Co-author(s): Paul Bologna, Andrew Wright
Advisor: Dr. Paul Bologna

Title: An examination of net neutrality (A55)
Presenter: Joseph Teschner
Advisor: Dr. Ian Drake

Title: Interfacially activated aggregation of Alpa Synuclein (A56)
Presenter: Miranda Torres
Co-author: Michiru Sprague, Yuliana Cardenas, David Talaga
Advisor: Dr. David Talaga

Title: Characterization of UV-quenching dissolved organic matters in landfill leachate (A57)
Presenter: Alicja Trzopek
Advisor: Dr. Yang Deng

Title: Caribbean sea sponge diversity and size distribution: A new age biofilter (A58)
Presenter: Patrick Vojnyk
Co-author: Iraida Alvarez
Advisor: Dr. Paul Bologna

Title: A profiling study to determine the susceptibility of erythromycin and green tea polyphenols on Bacillus megaterium, Pseudomonas aeruginosa and Mycobacterium (A59)
Presenter: Siti Ayuni Mohammed Yussof
Co-author(s): Chandni Rana, Kilvia Garcia
Advisor: Dr. Lee Lee

Title: Investigative analysis on ancient marble rock at the Villa of the Antonines (A60)
Presenter: Salvatore Zerbo
Co-author(s): Stefanie Brachfeld, Gregory Pope, Deborah Chatr Aryamontri, Laying Wu, Timothy Renner
Advisor: Dr. Stefanie Brachfeld
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<tr>
<td>Macroinvertebrate assemblages of New Jersey springs (B1)</td>
<td>Yaritza Acosta Caraballo</td>
<td>Dr. Meiyin Wu</td>
</tr>
<tr>
<td>Lipophilic green tea polyphenols as promising control agents for endospore germination in Bacillus cereus (B2)</td>
<td>Bushra Ali</td>
<td>Dr. Lee Lee</td>
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<tr>
<td>Isolation and characterization of novel Mycobacterium bacteriophage and Arthrobacter bacteriophage from New Jersey soil (B3)</td>
<td>Joseph Ambrose, Alex DeVito, Tatyiana Singletary, Emily Adams, Sheetal Agarwal, Shefa Alkhalaf, Telia Anderson, Alex Binness, et al.</td>
<td>Dr. Sandra Adams</td>
</tr>
<tr>
<td>What is causing the over population of sea nettles and jellyfish in the ocean waters of Barnet Bay? (B4)</td>
<td>Victoria Anderson</td>
<td>Dr. Gregory Pope</td>
</tr>
<tr>
<td>The ping-pong effect: Extinction dynamics in stochastic populations with migration (B5)</td>
<td>Alexa Aucoin</td>
<td>Dr. Eric Forgoston</td>
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<tr>
<td>Systems evaluation in practice: A case study (B6)</td>
<td>Veronica Barrios</td>
<td>Dr. Jennifer Urban</td>
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<tr>
<td>The study of Y127A mutation on dihydrofolate reductase (B7)</td>
<td>Sarah Cho</td>
<td>Dr. Nina Goodey</td>
</tr>
<tr>
<td>Modeling the surface of shore attached sand ridges, Mantoloking, New Jersey (B8)</td>
<td>Daniel Ciarletta</td>
<td>Dr. Sandra Passchier</td>
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<tr>
<td><strong>Neuroscience and counseling: An integrative approach</strong> <em>(B9)</em></td>
<td>Thomas Conklin</td>
<td>Dr. Sandra Lopez-Baez</td>
</tr>
<tr>
<td><strong>The female presence on United States juries and its impact on criminal case decisions</strong> <em>(B10)</em></td>
<td>Kelly Degen</td>
<td>Dr. Ian Drake</td>
</tr>
<tr>
<td><strong>Measures of handedness</strong> <em>(B11)</em></td>
<td>Kyle Dodd</td>
<td>Dr. Ruth Propper</td>
</tr>
<tr>
<td><strong>The effect of pitch on size perception of circles and dogs</strong> <em>(B12)</em></td>
<td>Melissa Espin</td>
<td>Dr. Yoav Arieh</td>
</tr>
<tr>
<td><strong>Using graphical processing units for computing optimal band selection in hyperspectral data</strong> <em>(B13)</em></td>
<td>Michael Estwanick</td>
<td>Dr. Stefan Robila</td>
</tr>
<tr>
<td><strong>Microbial diversity of different sized aggregates in metal contaminated soils</strong> <em>(B14)</em></td>
<td>Yanina Figuereo</td>
<td>Dr. Jennifer Krumins</td>
</tr>
<tr>
<td><strong>RET dependent transcriptional changes of cell signaling proteins in neuroblastoma cells</strong> <em>(B15)</em></td>
<td>Elizabeth Flores</td>
<td>Dr. Quinn Vega</td>
</tr>
<tr>
<td><strong>Soil water sources for non-native species Japanese knotweed, Phragmites and Multiflora rose</strong> <em>(B16)</em></td>
<td>Mariya Guzner</td>
<td>Dr. Dirk Vanderklein</td>
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<tr>
<td><strong>Utilizing CRISPR-Cas9 gene editing technique to eliminate target sequence from ICER promoter in Zebrafish (Danio rerio)</strong> <em>(B17)</em></td>
<td>Cory Haluska</td>
<td>Dr. Carlos Molina</td>
</tr>
</tbody>
</table>
Title: **Project DASH: (Divas Against the Spread of HIV/AIDS): Results of a pilot study on HIV risk and mother-daughter communication among African American daughters with HIV+ mothers (B18)**
Presenter: Rodney Hammond
Co-author(s): Lauren Ramos, Winston Abara, Patryce Burgess, Ndidiamaka Amutah
Advisor: Dr. Ndidiamaka Amutah

Title: **RSYN: A java program for effective RNA interference (B19)**
Presenter: Erich Homenik
Co-author(s): Oscar Acebo, Hussein Jumhour
Advisor: Dr. Chunguang Du

Title: **Opportunities for college students in the baseball industry (B20)**
Presenter: Justin Keating
Advisor: Dr. Yawei Wang

Title: **Microplastic distribution within a mussel bed at Sandy Hook, NJ (B21)**
Presenter: Matthew Khan
Advisor: Dr. Robert Prezant

Title: **A cost-benefit approach towards New Jersey coastal protection and replenishment practices, using hedonic modeling (B61)**
Presenter: Jesse Kolodin
Co-author(s): Pankaj Lal, Robert Taylor
Advisor: Dr. Jorge Lorenzo-Trueba

Title: **Relationships between predicted energy intake, the Institute of Medicine guidelines, and self-reported energy intake in the pregnancy, infection, and nutrition study: New insights derived from a dynamic energy balance model (B22)**
Presenter: Jenie Kunnipparampil
Advisor: Dr. Diana Thomas

Title: **Nuestro pasion: Exploring Latino professional counselor identity (B23)**
Presenter: Anna Flores Locke
Co-author: Carlos Flores
Advisor: Dr. Muninder Ahluwalia

Title: **The impact of biased fact finding on abortion rights (B24)**
Presenter: Anatoly Maloletkin
Advisor: Dr. Ian Drake

Title: **Seagrass wrack as a potential benthic-pelagic link in Barnegat Bay, NJ (B25)**
Presenter: Joseph McGinnis
Co-author(s): Paul Bologna, Jack Gaynor, Robert Meredith
Advisor: Dr. Paul Bologna
Title: **Recovery of red mangrove communities: Assessment of prop root fouling communities (B26)**  
Presenter: Christopher Petrillo  
Co-author: Carmeria Hunter  
Advisor: Dr. Paul Bologna  

Title: **The legal and economic implications of eminent domain in the United States (B27)**  
Presenter: Leonel Quintanilla  
Advisor: Dr. Ian Drake  

Title: **Love that dirty water: Potential microbial diversity in on-street Manhattan hot dog water (B28)**  
Presenter: Jessica Rajchel  
Co-author(s): Annamaria De Bari, Nelson Casanova, Isabella Pastor  
Advisor: Dr. John Gaynor  

Title: **Study the effect of selenium oxide on the toxicity of cadmium chloride in the growth of Cyanobacteria synechococcus sp. IU 625 (B29)**  
Presenter: Rima Rana  
Co-author(s): Ami Rana, Lee Lee  
Advisor: Dr. Lee Lee  

Title: **Optional complementiser "if" in English: Does rhythmic alternation have an influence? (B30)**  
Presenter: Stephanie Ridge  
Advisor: Dr. Jonathan Howell  

Title: **Seasonal variation in starch content of two trees growing on contaminated soil (B31)**  
Presenter: Rebecca Rocha-Nascimento  
Co-author(s): Ariel Flood, Karina Schafer  
Advisor: Dr. Dirk Vanderklein  

Title: **Projected mid-twenty-first century climate changes in the White Volta Basin, West Africa (B32)**  
Presenter: Munni Salik  
Co-author: Clement Alo, Felix Oteng  
Advisor: Dr. Clement Alo  

Title: **The effects of the welfare state on society: An interdisciplinary approach to individual rights, concerning drug testing as a condition for financial government assistance (B33)**  
Presenter: Rachel Sandman  
Advisor: Dr. Ian Drake  

Title: **Power lines: More foe than friend (B34)**  
Presenter: Ryan Santo  
Advisor: Dr. Gregory Pope
Title: Play interaction differences of mother-infant dyads with and without developmental delays (B35)
Presenter: Fabio Simao
Advisor: Dr. Peter Vietze

Title: The effects of verb aspect and telicity on comprehension (B36)
Presenter: Rachel Ventrella
Advisor: Dr. David Townsend

Title: Piloting a model of inquiry-oriented supplemental instruction for Calculus I (B37)
Presenter: Karmen Yu
Co-author: Trina Wooten
Advisor: Dr. Steven Greenstein

Title: Prevalence of the pathogen ranavirus throughout the NE USA: Results from a five state two year study (B38)
Presenter: Dajana Borova
Co-author(s): Alvin Mercado, Mollie Rosenkrantz, Anthony Strobolakos, Tori Zirul
Advisor: Dr. Kirsten Monsen-Collar

Title: 2012 demography of car crash fatalities due to alcohol in New Jersey and New York (B39)
Presenter: Alex Caputi
Advisor: Dr. Gregory Pope

Title: GeoTagger: A sustainability platform for citizens and researchers (B40)
Presenter: Andrew DeStefano
Co-author(s): Paul Cushman, Nikita Panchariya, Varsha Nimbagal, Revathi Ragupathy, Benjamin Colsey, Brandon Hesse, Travis Gant, et al.
Advisor(s): Dr. Jerry Alan Fails, Dr. Katherine Herbert, Dr. Emily Hill

Title: Pushing bears over the edge: The impact that loss of land has on the Black Bear as well as the Polar Bear (B41)
Presenter: Andrea Fernandez
Advisor: Dr. Gregory Pope

Title: Mind the gap: Technology solutions for evaluation research in another country (B42)
Presenter: Lauren Gama
Co-author(s): Marisa MacDonnell, Victoria Illnick, Rebecca Jensen, Veronica Barrios, Lisa Chauveron, Miriam Linver, Jennifer Urban
Advisor: Dr. Jennifer Urban, Dr. Miriam Linver

Title: Observing the relationship between land use and contaminated sites (B43)
Presenter: Duke Hong
Advisor: Dr. Gregory Pope
Title: **Complexities of sensory conflict as an explanation for different types of motion sickness (B44)**
Presenter: Daphne Labropoulos
Co-author: Frederick Bonato, Andrea Bubka
Advisor: Dr. Frederick Bonato

Title: **Environmental correlates of ranavirus disease distribution in New Jersey (B45)**
Presenter: Adriana Messyasz
Co-author: Lisa Hazard, Kirsten Monsen-Collar
Advisor: Dr. Lisa Hazard

Title: **A comparison of backpack load carriage with and without a hip strap (B46)**
Presenter: Loren Pigman
Co-author(s): Steven Leigh, Peter Hosick
Advisor: Dr. Steven Leigh

Title: **Applying cogmed to improve working memory abilities after Traumatic Brain Injury (TBI) (B47)**
Presenter: Paula Roa
Co-author: Angela Roa
Advisor: Julia Coyne

Title: **An analysis of the changing flood zones compared to change in land use in the Paterson area of the Passaic River (B48)**
Presenter: Claire Rolling
Advisor: Dr. Gregory Pope

Title: **A proposed study of millennial preservice mathematics teachers’ cultural experiences and implications for instruction (B49)**
Presenter: Justin Seventko
Advisor: Dr. Steven Greenstein

Title: **Frequent flooding affecting real estate market in New Milford, New Jersey (B50)**
Presenter: Shiran Sewpal
Advisor: Dr. Gregory Pope

Title: **IEEE floating point converter Tool 1.1 (B51)**
Presenter: Cesar Sosa
Co-author(s): Tyler Sookdeo, Sebastian Kufel
Advisor: Dr. George Antoniou

Title: **The desynchronization of storm discharge peaks from modeling LID impacts in a small, urbanized watershed in New Jersey (B52)**
Presenter: Erik Strandskov
Advisor: Dr. Joshua Galster
Title: It’s all mental: Collegiate student-athletes and suicidal ideation (B53)
Presenter: Margaret Walsh
Co-author(s): Alyssa Sceppaguercio, Christina Celfo
Advisor: Rebecca Swann-Jackson

Title: A classroom undergraduate research experience: Annotation of a sequence-indexed reverse genetics resource for maize (B54)
Presenter: Sundiata Washington
Co-author(s): Cantius Peterkin, Yaw Anyemedu, Keyana Davis, Maged Hanafy, Fedlene Larose, Analiss Mendez
Advisor: Dr. Chunguang Du

Title: Investigation of automatic access to spatial representations of magnitude (B55)
Presenter: Jaclyn Wiener
Advisor: Dr. Yoav Arieh

Title: Attitude changes among White/Non Hispanic first generation college students (B56)
Presenter: Alyssa Willis
Co-author: Pearl Stewart
Advisor: Dr. Pearl Stewart

Title: The effect of trail size on the amount of trash found (B57)
Presenter: Lewis Windle
Advisor: Dr. Gregory Pope

Title: Regulation of the transcriptional repressor ICER by ubiquitination (B58)
Presenter: Fanaye Woldeamanuel
Co-author: Rossara Nunez
Advisor: Dr. Carlos Molina

Title: Developing a hypothetical learning trajectory of elementary students’ understanding of 3D geometry (B59)
Presenter: Trina Wooten
Advisor: Dr. Nicole Panorkou

Title: Are you addicted to social media (B60)
Presenter: Malik Zubi
Co-author(s): Darlene Ahmad, Labib Rabboh, Shivani Rana
Advisor: Dr. Chunguang Du
## Alphabetical List of Presenters, Co-authors, Advisors and Moderators

### A
- **Abbara, Winston**  
  Co-author · 22
- **Abdulsalam, Maryam**  
  Co-author · 5  
  Presenter · 2, 5
- **Acebo, Oscar**  
  Co-author · 22
- **Acosta Caraballo, Yaritza**  
  Presenter · 20
- **Adams, Emily**  
  Co-author · 15, 20
- **Adams, Sandra**  
  Advisor · 9, 13, 15, 20  
  Presenter · 21
- **Aftab, Anum**  
  Presenter · 13
- **Agarwal, Sheetal**  
  Co-author · 15, 20
- **Alkhalaf, Shefa**  
  Co-author · 15, 20
- **Almeida, Jhonny**  
  Presenter · 12
- **Alo, Clement**  
  Advisor · 23
- **Alvarez, Iraida**  
  Co-author · 19
- **Amato, Logan**  
  Co-author · 10
- **Ambrose, Joseph**  
  Co-author · 15  
  Presenter · 20
- **Amutah, Ndidiemaka**  
  Advisor · 22
- **Anderson, Telia**  
  Co-author · 15, 20
- **Anderson, Victoria**  
  Presenter · 20
- **Anthony, Moira**  
  Co-author · 18
- **Antoniou, George**  
  Advisor · 25
- **Anyemedu, Yaw**  
  Co-author · 26
- **Apito, Felicia**  
  Co-author · 15
- **Appelbaum, Meredith**  
  Advisor · 16
- **Ardis, Jessica**  
  Co-author · 15
- **Arencibia, Nicole**  
  Co-author · 8
- **Arieh, Yoav**  
  Advisor · 14, 21, 26
- **Aucoin, Alexa**  
  Presenter · 20
- **Aziz, Froogh**  
  Presenter · 13

### B
- **Baden, Amanda**  
  Advisor · 3
- **Baello, Rob Rexler**  
  Presenter · 14
- **Baello, Rofe**  
  Co-author · 2, 5
- **Ballini, Ralib**  
  Co-author · 2, 5  
  Presenter · 5
- **Baron Cortes, Linda**  
  Co-author · 10
- **Barrios, Veronica**  
  Co-author · 2, 3, 8, 13, 14  
  Presenter · 20
- **Barrows, Robert**  
  Presenter · 8, 13, 14
- **Basu, Debasmitha**  
  Presenter · 14
- **Bates, Todd**  
  Presenter · 2
- **Beausaert, Simon**  
  Co-author · 4
- **Berkefeld, Cody**  
  Presenter · 9
- **Besen-Cassino, Yasemin**  
  Moderator · 7
- **Bindra, Amrita**  
  Presenter · 14
- **Binness, Alex**  
  Co-author · 15, 20
- **Boachie, Adwoa**  
  Co-author · 7
- **Bolyn, Brenna**  
  Co-author · 2
- **Bologna, Paul**  
  Advisor · 3, 8, 17, 19, 22, 23  
  Co-author · 3, 8, 19, 22  
  Moderator · 3
- **Bonato, Frederick**  
  Advisor · 16, 25
- **Booth, Robert**  
  Co-author · 2, 5  
  Presenter · 5
- **Borova, Dajana**  
  Presenter · 24
- **Brachfeld, Stefanie**  
  Advisor · 13, 19
- **Bratkovich, Meghan**  
  Presenter · 6
- **Bray, Ahnna**  
  Co-author · 7
- **Bryfogle, Kristen**  
  Presenter · 7
- **Bubka, Andrea**  
  Co-author · 16, 25
- **Burgess, Patryce**  
  Co-author · 22
- **Burke, Kelsey**  
  Presenter · 14
- **Burli, Pralhad**  
  Co-author · 16
- **Bury, Jessica**  
  Co-author · 15

### C
- **Campbell, Alexander**  
  Presenter · 6
- **Caputi, Alex**  
  Presenter · 24
- **Caracappa, Michael**  
  Presenter · 2
- **Cardenas, Yuliana**  
  Co-author · 19
- **Carr, Lauren**  
  Advisor · 2, 6
- **Casanova, Nelson**  
  Co-author · 23
- **Caspi, Jon**  
  Advisor · 2, 3  
  Co-author · 2, 3
- **Castillo, Doralia**  
  Presenter · 12
- **Caulfield, Michael**  
  Presenter · 14
- **Celfo, Christina**  
  Co-author · 26
- **Chalmers, Elizabeth**  
  Presenter · 14
- **Chatr Aryamontri, Deborah**  
  Advisor · 4, 6
- **Co-author · 13, 19
- **Chatterjee, Patrali**  
  Advisor · 7
- **Cho, Sarah**  
  Presenter · 20
- **Ciarnetta, Daniel**  
  Presenter · 20
- **Ciroti, Francesca**  
  Co-author · 8
- **Cho, Christopher**  
  Co-author · 16, 19  
  Presenter · 14
- **Cheung, Matthew**  
  Co-author · 17
- **Chiavola, Candice**  
  Co-author · 8
- **Cho, Sarah**  
  Presenter · 20
- **Ciarletta, Daniel**  
  Presenter · 20
- **Cotoli, Francesca**  
  Co-author · 8
- **Citer, Brandon**  
  Presenter · 5, 15
- **Clark, Sa-Qwona**  
  Co-author · 2
- **Clayton, Annalise**  
  Co-author · 7
- **Coleman, Donald**  
  Co-author · 14
- **Colsey, Benjamin**  
  Co-author · 24
- **Conklin, Thomas**  
  Presenter · 15, 21
- **Conlon, Kelsey**
<table>
<thead>
<tr>
<th>Presenter</th>
<th>Advisor</th>
<th>Co-author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conrad, Brett</td>
<td>Donoghue, Christopher</td>
<td>16, 17</td>
</tr>
<tr>
<td>Cordova, Priscilla</td>
<td>Drake, Ian</td>
<td>2, 5, 6, 10, 12, 13, 15, 18, 19, 21, 22, 23</td>
</tr>
<tr>
<td>Corozine, Michael</td>
<td>Drywa, Nicholas</td>
<td>Presenter · 11</td>
</tr>
<tr>
<td>Coyne, Julia</td>
<td>Du Barry, Scott</td>
<td>Co-author · 10</td>
</tr>
<tr>
<td>Cubias, Debora</td>
<td>Du, Chongguang</td>
<td>Advisor · 18, 22, 26</td>
</tr>
<tr>
<td>Cushman, Paul</td>
<td>Du, Xu</td>
<td>Presenter · 12</td>
</tr>
<tr>
<td>Dallavalle, Dante</td>
<td>Dubey, Ram</td>
<td>Advisor · 7</td>
</tr>
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<td>Darley, Jason</td>
<td>Dyer, Jim</td>
<td>Advisor · 17</td>
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<td>Daverio, Marie</td>
<td>Dykstra, Ryan</td>
<td>Co-author · 20</td>
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<td>Davis, Bryan</td>
<td>Edwards, Schyler</td>
<td>Presenter · 15</td>
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<td>Davis, Keyana</td>
<td>Elbert, Monika</td>
<td>Advisor · 7</td>
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<tr>
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<td>Emery, Elizabeth</td>
<td>Advisor · 11</td>
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<td>De Silva, Saliya</td>
<td>Eshuis, Henk</td>
<td>Advisor · 5</td>
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<tr>
<td>Decker, Alexa</td>
<td>Espin, Melissa</td>
<td>Presenter · 21</td>
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<tr>
<td>Degen, Kelly</td>
<td>Esposito, Carmine</td>
<td>Presenter · 4</td>
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<tr>
<td>De Jong, Meagan</td>
<td>Estwanick, Michael</td>
<td>Presenter · 21</td>
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<tr>
<td>Del Cielo, Matthew</td>
<td>Eziebuaku, Amanda</td>
<td>Co-author · 18</td>
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<tr>
<td>D’Elia, Susan</td>
<td>Fails, Jerry Alan</td>
<td>Advisor · 24</td>
</tr>
<tr>
<td>Deng, Yang</td>
<td>Favata, Marc</td>
<td>Advisor · 11</td>
</tr>
<tr>
<td>DeStefano, Andrew</td>
<td>Fernandez, Andrea</td>
<td>Presenter · 24</td>
</tr>
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<td>DeVito, Alex</td>
<td>Ferrara, Nashali</td>
<td>Presenter · 24</td>
</tr>
<tr>
<td>Dewart, Victoria</td>
<td>Ferris, Sean</td>
<td>Co-author · 16</td>
</tr>
<tr>
<td>Dioguardi, Lauren</td>
<td>Figueuroa, Yanina</td>
<td>Presenter · 21</td>
</tr>
<tr>
<td>Diop, Fatou</td>
<td>Fils, Cala</td>
<td>Presenter · 4</td>
</tr>
<tr>
<td>Dodd, Kyle</td>
<td>Finocchiaro, Marco</td>
<td>Co-author · 17</td>
</tr>
<tr>
<td>Dojcinoski, Goran</td>
<td>Fives, Helenrose</td>
<td>Advisor · 6</td>
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<td>Flood, Ariel</td>
<td>Co-author · 6</td>
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<td>Fuentes, Andres</td>
<td>Co-author · 5</td>
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<td>Gaffney, Kathleen</td>
<td>Presenter · 15</td>
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<td>Galef, David</td>
<td>Advisor · 3, 9</td>
</tr>
<tr>
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<td>Galvez, Henry</td>
<td>Moderator · 9</td>
</tr>
<tr>
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<td>Gama, Laurea</td>
<td>Co-author · 8, 13, 14</td>
</tr>
<tr>
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<td>Gant, Travis</td>
<td>Presenter · 24</td>
</tr>
<tr>
<td></td>
<td>Garcia Alzate, Paola</td>
<td>Co-author · 24</td>
</tr>
<tr>
<td></td>
<td>Garcia, Kilvia</td>
<td>Presenter · 15</td>
</tr>
<tr>
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<td>Garcia, Omaris</td>
<td>Co-author · 19</td>
</tr>
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<td>Gaynor, Jack</td>
<td>Co-author · 14</td>
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<td>Gaynor, Jack</td>
<td>Co-author · 7</td>
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<td>Gonzalez, Joseph</td>
<td>Co-author · 11</td>
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<tr>
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<td>Gurley, Mandy</td>
<td>Presenter · 21</td>
</tr>
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<td>Hadis, Benjamin</td>
<td>Advisor · 11</td>
</tr>
<tr>
<td></td>
<td>Haglifara, Sumi</td>
<td>Advisor · 9</td>
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<td>Hagmann, Diane</td>
<td>Presenter · 8</td>
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<tr>
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<td>Haluska, Cory</td>
<td>Presenter · 21</td>
</tr>
<tr>
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<td>Hammond, Rodney</td>
<td>Presenter · 22</td>
</tr>
<tr>
<td></td>
<td>Hanafy, Maged</td>
<td>Co-author · 26</td>
</tr>
<tr>
<td></td>
<td>Hanaka, Marta</td>
<td>Co-author · 10</td>
</tr>
<tr>
<td></td>
<td>Hansen, Melissa</td>
<td>Presenter · 7</td>
</tr>
</tbody>
</table>
Presenter · 4
Sanchez, Karla
Presenter · 11
Sandman, Rachel
Presenter · 23
Santo, Ryan
Presenter · 23
Santos, Rick
Co-author · 10
Sceppaguercio, Alyssa
Co-author · 26
Schafer, Karina
Co-author · 3, 23
Schelvis, Johannes
Advisor · 14
Scott, Rebekkah
Presenter · 7
Scrudato, Kaitlyn
Presenter · 8
Segers, Mien
Advisor · 4
Co-author · 4
Seklas, Vicky
Presenter · 8
Selimi, Auriela
Presenter · 8
Seventko, Justin
Presenter · 25
Sewpal, Shiran
Presenter · 25
Sharpe, David
Presenter · 18
Sharps, Ronald
Moderator · 2
Shefarevich, Liubou
Presenter · 6
Shoemaker, Kathy
Co-author · 15, 21
Presenter · 3
Shubek, Kristen
Co-author · 18
Steklerka, John
Co-author · 11
Silva, Ana
Presenter · 10
Simao, Fabio
Presenter · 24
Singleton, Tatjana
Co-author · 20
Slevos, Stephanie
Co-author · 5
Smith, Brian
Advisor · 6, 11
Smith, Caroline
Presenter · 8
Socha, Kaitlyn
Presenter · 18
Song, Buhan
Co-author · 3
Sookdeo, Tyler
Co-author · 25
Sortano, Karina
Co-author · 12
Sosa, Cesar
Presenter · 25
Sotillo, Susana
Advisor · 2
Sotillo, Susana
Advisor · 6
Spanakos, Tony
Advisor · 6, 11
Spinelli, Danielle
Presenter · 18
Sprague, Michiru
Advisor · 19
Springer, Carola
Presenter · 18
Stamos, James
Presenter · 9, 18
Stamos, Peter
Co-author · 18
Stanislawczuk, Monica
Presenter · 13, 18
Stapley, Janice
Advisor · 2, 4
Co-author · 2, 4
Stewart, Pearl
Advisor · 11, 26
Co-author · 26
Strandskov, Erik
Presenter · 25
Stroblakos, Anthony
Co-author · 24
Su, Haiyan
Advisor · 8
Suhi, Stephanie
Presenter · 19
Suresh, Sandeep
Co-author · 2, 5
Swann-Jackson, Rebecca
Advisor · 26
Szewczyk, Matthew
Co-author · 7
Tarnawski, Paul
Co-author · 10
Tarnowski, Stephanie
Co-author · 2
Taylor, Monica
Advisor · 2, 9
Taylor, Robert
Co-author · 22
Teschner, Joseph
Presenter · 19
Thomas, Diana
Advisor · 17, 22
Co-author · 17
Thornton, William
Co-author · 16
Torres, Jaeline
Presenter · 11
Torres, Miranda
Presenter · 19
Townsend, David
Advisor · 13, 16, 24
Trabona, Kristen
Co-author · 9
Trabona, Kristin
Presenter · 8
Trzopek, Alicja
Presenter · 19
Twisdale, William
Presenter · 6

W
Wahome, Jeffrey
Co-author · 14
Waitt, Craig
Presenter · 5
Walker, Shakeera
Presenter · 5
Walsh, Margaret
Presenter · 26
Wang, Yawei
Advisor · 22
Washington, Sundiata
Presenter · 26
Wasserman, Sara
Co-author · 2
White, Ebony
Presenter · 3
Wiener, Jaclyn
Presenter · 26
Williams, Kessia
Co-author · 10
Williams, Trevor
Co-author · 3
Willis, Alyssa
Presenter · 26
Windle, Lewis
Presenter · 26
Wiseeman, Katie
Co-author · 18
Wishnick, Elizabeth
Advisor · 4, 17
Wolde, Bernabas
Co-author · 16
Woldeamanuel, Fanaye
Presenter · 26
Wooten, Trina
Co-author · 24
Presenter · 26
Wright, Andrew
Co-author · 19
Wu, Laying
Co-author · 13, 19
Wu, Meiyin
Advisor · 3, 17, 20
Co-author · 17
<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wunderlich, Shahla</td>
<td>Advisor</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Co-author</td>
<td>19</td>
</tr>
<tr>
<td>Yevtushenko, Artem</td>
<td>Co-author</td>
<td>7, 10</td>
</tr>
<tr>
<td>Young, Michael</td>
<td>Co-author</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Presenter</td>
<td>2, 5</td>
</tr>
<tr>
<td>Yu, Danlin</td>
<td>Advisor</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Co-author</td>
<td>15</td>
</tr>
<tr>
<td>Yu, Karmen</td>
<td>Presenter</td>
<td>24</td>
</tr>
<tr>
<td>Zeydan, Ali</td>
<td>Presenter</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zerbo, Salvatore</td>
<td>Presenter</td>
<td>13, 19</td>
</tr>
<tr>
<td>Zirul, Tori</td>
<td>Co-author</td>
<td>24</td>
</tr>
<tr>
<td>Zubi, Malik</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zughbi, Sarah</td>
<td>Co-author</td>
<td>2, 6</td>
</tr>
<tr>
<td>Zuppichini, Mark</td>
<td>Presenter</td>
<td>10</td>
</tr>
</tbody>
</table>
NOTES
NOTES
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Moderator:
Dr. Christopher McKinley
Assistant Professor, School of Communication and Media,
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Dr. Douglas Murray
Assistant Professor, Health and Nutrition Sciences,
College of Education and Human Services

Dr. Douglas Murray, Assistant Professor of Food Systems, researches serious leisure satisfaction and motivation across multiple activities, food safety and the craft beer industry. Murray has published in such academic journals as the British Food Journal, the World Leisure Journal and Advances in Bioscience and Biotechnology. Dr. Murray serves on the scientific advisory boards of the International Conference of Culinary Arts and Sciences and the Jordan International Tourism and Hospitality Conference. In addition, Dr. Murray brings extensive food management expertise to his inquiries, having held leadership positions in chain restaurant operations, private clubs and other industries.

Dr. Ian Drake
Assistant Professor, Political Science and Law,
College of Humanities and Social Sciences

Dr. Ian Drake received his PhD in American history from the University of Maryland at College Park in 2010. His teaching interests include the American judiciary and legal systems; the U.S. Supreme Court and constitutional history; and the history and contemporary study of law and society. Most recently he has focused on the history of American constitutional law and private law, particularly tort and contract law. Dr. Drake is currently conducting research on animal protection laws, First Amendment rights, and the politics of the treatment of animals used in industrial agriculture. Prior to earning his PhD in history, Dr. Drake practiced law in the areas of insurance and tort law.

Dr. Gregory Pope
Associate Professor, Earth and Environment Sciences,
College of Science and Mathematics

Dr. Gregory Pope focuses his research on how ancient and historic stone monuments and architecture deteriorate over time; how rock art can be dated and protected; how soils tell a detailed story about climate change over millennia; and how ancient human societies impact their environments. The common theme in these pursuits is the integration of holistic earth sciences with human dimensions. His research work is sponsored by the National Science Foundation, and he works with colleagues in Portugal, China, Northern Ireland and throughout the United States.

Dr. C. Jayachandran
Professor, Marketing, School of Business

Dr. C. Jayachandran is a professor of Marketing and International Business with teaching, research and consulting interests in internationalization of SMEs, market entry modes and marketing strategies with a focus on emerging markets. He played a leadership role in developing and implementing undergraduate and graduate programs in international business and outreach services for SMEs. As part of this initiative, Dr. Jayachandran developed grant proposals and received Title VI B grants from the U.S. Department of Education and played a role in creating programs and student internships.

Acknowledgements

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