



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
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IT'S ALL HERE.

Message from the Provost:



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.

A handwritten signature in black ink that reads "Willard Gingerich". The signature is fluid and cursive, with a large, stylized 'W' and 'G'.

Dr. Willard Gingerich
Provost and Vice President for Academic Affairs

Schedule

8:00 – 8:20 am	Registration and Continental Breakfast University Hall Grand Hallway, 1 st 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, 7 th 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, 7 th 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): Rabi Balilli, 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

Title: **Canon fodder: The missing voice of the student in canon and curricula formation**
Presenter: Meagan DeJong Advisor: Dr. David Galef

Title: **A reevaluation of the historicity of the Ramayana through de-orientalized pedagogy**
Presenter: Sabrina D. MisirHiralall Advisor: Dr. Dorothy Rogers

4. Ecology and Earth Science – University Hall 2013 **Moderator: Dr. Paul Bologna**

Title: **Impacts of land use and land cover composition on macroinvertebrate assemblages at both catchment basin and riparian scales along the Passaic River, New Jersey**
Presenter: Michael Levinson Advisor: Dr. Meiyin Wu

Title: **Assessing the population density, size distribution, and biomass of the long-spined sea urchin, *Diadema antillarum*, in St. John, U.S.V.I.**
Presenter: Jami Luckhardt Advisor: Dr. Paul Bologna
Co-author(s): Paul Bologna, Lauren Liddy

Title: **Is soil pollution starving trees? Starch analysis of *Betula populifolia* and *Populus* spp. in an abandoned urban brownfield**
Presenter: Ariel Flood Advisor: Dr. Dirk Vanderklein
Co-author(s): Dirk Vanderklein, Karina Schafer

Title: **Geochemical analysis of Antarctic sediment cores from Prydz Bay site for the purpose of reconstructing the paleo-environment during the Eocene-Oligocene**
Presenter: Triantafilo Miriagos Advisor: Dr. Sandra Passchier
Co-author(s): Sandra Passchier, Nicholas Tadrack

Title: **Threshold behavior of a marine-based sector of the east Antarctic ice sheet in response to early pliocene ocean warming**
Presenter: Melissa Hansen Advisor: Dr. Sandra Passchier
Co-author(s): Sandra Passchier, Boo-Keun Khim, Buhan Song, Trevor Williams

5. Counseling – University Hall 2012 **Moderator: Dr. Harriet Glosoff**

Title: **Counseling gay men of color: Understanding dating, sexual-risk taking, and microaggressions through social media**
Presenter: Carlos Flores Advisor: Dr. Leslie Kooyman

Title: **Experiences of successful African American women raised by mothers in low-income communities**
Presenter: Ebony White Advisor: Dr. Amanda Baden

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: **Brain-based counseling: The why and how of applying neuroscience to practice**
Presenter: Kathy Shoemaker Advisor: Dr. Harriet Glosoff
Co-author: David Lardier

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

6. Food/Weight – University Hall 2011 Moderator: Dr. Douglas Murray

Title: **Food security in Tanzania and South Sudan**
 Presenter: Saning'o Kimani
 Advisor: Dr. Elizabeth Wishnick

Title: **Chefs, nutrition, and public health: What are they modeling?**
 Presenter: Kathleen Gaffney
 Co-author(s): Douglas Murray, Meena Mahadevan
 Advisor: Dr. Douglas Murray

Title: **Shaping Elizabeth: A case study of community partnerships**
 Presenter: Jacqueline Gifuni
 Advisor: Dr. Eva Goldfarb

Title: **Counselor values and body image in counseling**
 Presenter: Kimberly Lovato
 Co-author: Connie Ducaine
 Advisor: Dr. Dana Levitt

7. Literature – University Hall 2010 Moderator: Dr. Michele Knobel

Title: **Cannibalism, knots, and indigestion: Stomaching Shakespeare's body**
 Presenter: Bryan Davis
 Advisor: Dr. Naomi Liebler

Title: **Sleep across different stages**
 Presenter: Sue Ellen Lian
 Advisor: Dr. Naomi Liebler

Title: **The foreign king on an English throne: Charles I and the redrawing of Englishness in Milton's revolutionary prose**
 Presenter: Courtney Van Saders
 Advisor: Dr. Jeffrey Miller

Title: **The portrayal of war in French theatrics: The perspectives of Eugène Ionesco**
 Presenter: Cala Fils
 Advisor: Dr. Lois Oppenheim

8. The Office and Work – University Hall 2009 Moderator: Dr. Agatha Jeffers

Title: **On the relation between social informal learning activities and innovative work behavior in the workplace**
 Presenter: Maike Gerken
 Co-author(s): Simon Beausaert, Mien Segers
 Advisor: Mien Segers

Title: **Should introverts act more like extroverts in the workplace?**
 Presenter: Rosemarie Salvatore
 Advisor: Dr. Todd Kelshaw

Title: **Classical Anatolian industrial device points to late-Roman adoption of automated machinery**
 Presenter: Carmine Esposito
 Advisor: Dr. Deborah Chatr Aryamontri

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
 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
 Co-author(s): Ahnia Bray, Annalise Clayton

Advisor: Dr. Archana Kumar

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 Gaul 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

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

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

Title: Expression and purification of a potential antifolate target, dihydrolfate reductase from *B. Malayi*

Presenter: Karla Sanchez

Co-author(s): Romy Perez-Abraham, Ulrich Gubler, John Siekierka, Nina Goodev

Moderator: Dr. Gregory Pope

Presenter: Zahra Mustamand **Advisor:** Dr. Ian Drake

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

Moderator: Dr. Ashuwin Vaidya

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

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 diverse 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

Title: **How does the theory of planned behavior affect the possibility of becoming pregnant out of marriage? (A23)**
 Presenter: Sydney Joice-Casey
 Advisor: Dr. Christopher Donoghue

Title: **Effect of pH on Cry-DASH UV-damaged DNA repair activity (A24)**
 Presenter: Pamela Jumbo
 Advisor: Dr. Yvonne Gindt

Title: **Cooperation of authority (A25)**
 Presenter: Nathan Kemper
 Advisor: Meredyth Appelbaum, AuD

Title: **Effects of telicity on syntactic reanalysis in reduced relative clauses (A26)**
 Presenter: Ryan King
 Advisor: Dr. David Townsend

Title: **Predicted pattern of bone loss in long-term spaceflight (A27)**
 Presenter: Daphne Labropoulos
 Co-author(s): Frederick Bonato, William Thorton, Andrea Bubka
 Advisor: Dr. Frederick Bonato

Title: **Green tea polyphenols inhibit biofilm formation in streptococcus mutans (A28)**
 Presenter: Paul Levinsky
 Co-author(s): Christopher Chen, Hassan Tahir
 Advisor: Dr. Lee Lee

Title: **Investigation of the oligomeric structure of cryptochrome using fluorescence (A29)**
 Presenter: Mengqi Li
 Advisor: Dr. Yvonne Gindt

Title: **Comparative analysis of MMP20 gene in different mammals (A30)**
 Presenter: Israa Maani
 Advisor: Dr. Robert Meredith

Title: **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)**
 Presenter: Alexis Marrero
 Co-author: Sean Ferris
 Advisor: Dr. Ricard Jensen

Title: **A Hedonic study of the surrounding contaminated area of Liberty State Park and the environmental qualities present (A32)**
 Presenter: Rachel Maynard
 Co-author(s): Pankaj Lal, Gregory Pope, Bernabas Wolde, Pralhad Burli
 Advisor: Dr. Pankaj Lal

Title: **Crossing boundaries in undergraduate Biology education (A33)**
 Presenter: Jason McManus
 Co-author: Dirk Vanderklein, Mika Munakata
 Advisor: Dr. Mika Munakata

Title: **Somali Piracy (A34)**
 Presenter: Thina Minya
 Advisor: Dr. Elizabeth Wishnick

Title: **Eating rates (A35)**
 Presenter: Ann Nduati
 Co-author(s): Diana Thomas, Corby Martin
 Advisor: Dr. Diana Thomas

Title: **Defying all odds: Understanding the ability of heavily contaminated soil to sustain life (A36)**
 Presenter: Eleanor Ojinnaka
 Co-author(s): Danielle Le Roux, Thamanna Misbah
 Advisor: Dr. Nina Goodey

Title: **Suspensions in high school and their association with drug use (A37)**
 Presenter: Duygu Payidarol
 Advisor: Dr. Christopher Donoghue

Title: **Cloning and expression of Cryptochrome proteins from Arabidopsis thaliana (A38)**
 Presenter: Mendelssohn Philippe
 Advisor: Dr. Jim Dyer

Title: **A comparison of backpack load carriage with and without a hip strap (A39)**
 Presenter: Loren Pigman
 Co-author(s): Steven Leigh, Peter Hosick
 Advisor: Dr. Steven Leigh

Title: **Diel habitat utilization of fish and decapod species in Great Lameshur Bay, St. Johns, USVI (A40)**
 Presenter: Elizabeth Pudlak
 Co-author: Matthew Cheung
 Advisor: Dr. Paul Bologna

Title: **How to find toddlers with cognitive disabilities in another country (A41)**
 Presenter: Paula Roa
 Co-author: Katherine Lee
 Advisor: Dr. Peter Vietze

Title: **Assessing phosphorus storage in sediments of Lake Hopatcong (NJ) (A42)**
 Presenter: Alessandra Rossi
 Co-author(s): Kevin Olsen, Marco Finocchiaro, Matthew Del Ciello, Meiyin Wu
 Advisor: Dr. Meiyin Wu

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

Title: **Foraging efficiency of immature *Blattella lateralis* and *Blattella 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

Poster Presentations

Block B: 2:00 pm – 3:00 pm

(Alphabetical by Presenter's Last Name)

- Title: **Macroinvertebrate assemblages of New Jersey springs (B1)**
Presenter: Yaritza Acosta Caraballo
Advisor: Dr. Meiyin Wu
- Title: **Lipophilic green tea polyphenols as promising control agents for endospore germination in *Bacillus cereus* (B2)**
Presenter: Bushra Ali
Co-author: Hassan Tahir
Advisor: Dr. Lee Lee
- Title: **Isolation and characterization of novel *Mycobacterium* bacteriophage and *Arthrobacter* bacteriophage from New Jersey soil (B3)**
Presenter: Joseph Ambrose
Co-author(s): Alex DeVito, Tatyiana Singletary, Emily Adams, Sheetal Agarwal, Shefa Alkhalaf, Telia Anderson, Alex Binness, et al.
Advisor: Dr. Sandra Adams
- Title: **What is causing the over population of sea nettles and jellyfish in the ocean waters of Barnet Bay? (B4)**
Presenter: Victoria Anderson
Advisor: Dr. Gregory Pope
- Title: **The ping-pong effect: Extinction dynamics in stochastic populations with migration (B5)**
Presenter: Alexa Aucoin
Co-author: Ryan Dykstra
Advisor: Dr. Eric Forgoston
- Title: **Systems evaluation in practice: A case study (B6)**
Presenter: Veronica Barrios
Advisor: Dr. Jennifer Urban
- Title: **The study of Y127A mutation on dihydrofolate reductase (B7)**
Presenter: Sarah Cho
Co-author(s): Marian Okondo, Nina Goodey
Advisor: Dr. Nina Goodey
- Title: **Modeling the surface of shore attached sand ridges, Mantoloking, New Jersey (B8)**
Presenter: Daniel Ciarletta
Co-author: Jorge Lorenzo-Trueba
Advisor: Dr. Sandra Passchier

Title: **Neuroscience and counseling: An integrative approach (B9)**
 Presenter: Thomas Conklin
 Co-author(s): Kathy Shoemaker, Marie Daverio
 Advisor: Dr. Sandra Lopez-Baez

Title: **The female presence on United States juries and its impact on criminal case decisions (B10)**
 Presenter: Kelly Degen
 Advisor: Dr. Ian Drake

Title: **Measures of handedness (B11)**
 Presenter: Kyle Dodd
 Advisor: Dr. Ruth Propper

Title: **The effect of pitch on size perception of circles and dogs (B12)**
 Presenter: Melissa Espin
 Co-author(s): Danielle Magna, Sanjay Advani
 Advisor: Dr. Yoav Ariei

Title: **Using graphical processing units for computing optimal band selection in hyperspectral data (B13)**
 Presenter: Michael Estwanick
 Advisor: Dr. Stefan Robila

Title: **Microbial diversity of different sized aggregates in metal contaminated soils (B14)**
 Presenter: Yanina Figueroa
 Advisor: Dr. Jennifer Krumins

Title: **RET dependent transcriptional changes of cell signaling proteins in neuroblastoma cells (B15)**
 Presenter: Elizabeth Flores
 Advisor: Dr. Quinn Vega

Title: **Soil water sources for non-native species Japanese knotweed, Phragmites and Multiflora rose (B16)**
 Presenter: Mariya Guzner
 Co-author(s): Joshua Galster, Dirk Vanderklein
 Advisor: Dr. Dirk Vanderklein

Title: **Utilizing CRISPR-Cas9 gene editing technique to eliminate target sequence from ICER promoter in Zebrafish (Danio rerio) (B17)**
 Presenter: Cory Haluska
 Advisor: Dr. Carlos Molina

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 Strobolagos, 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 Ariei

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

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A

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 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
 Advani, Sanjay
 Co-author · 21
 Presenter · 14
 Aftab, Anum
 Presenter · 13
 Agarwal, Sheetal
 Co-author · 15, 20
 Ahluwalia, Muninder
 Advisor · 22
 Ahmad, Darlene
 Co-author · 26
 Ahmed, Juned
 Co-author · 18
 Akram, Saba
 Presenter · 2, 10
 Ali, Bushra
 Co-author · 5
 Presenter · 20
 Alkhalaf, Shefa
 Co-author · 15, 20
 Allaire, Ryan
 Presenter · 11
 Almeida, Jhonny
 Presenter · 12
 Alo, Clement
 Advisor · 23
 Co-author · 23
 Alvarez, Iraida
 Co-author · 19
 Amato, Logan
 Co-author · 10
 Ambrose, Joseph
 Co-author · 15
 Presenter · 20
 Amutah, Ndidiamaka
 Advisor · 22
 Co-author · 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, Meredyth
 Advisor · 16
 Ardis, Jessica
 Co-author · 15
 Arencibia, Nicole
 Co-author · 8
 Arie, 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
 Balilli, Rabih
 Co-author · 2, 5
 Presenter · 5
 Baron Cortes, Linda
 Co-author · 10
 Barrios, Veronica
 Co-author · 2, 3, 8, 13, 14, 24
 Presenter · 20
 Barrows, Robert
 Presenter · 8, 13, 14
 Basu, Debasmita
 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
 Bohny, 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
 Co-author · 16, 25
 Booth, Robert
 Co-author · 2, 5
 Presenter · 5
 Borova, Dajana
 Presenter · 24
 Brachfeld, Stefanie
 Advisor · 13, 19
 Co-author · 13, 19
 Moderator · 8
 Bratkovich, Meghan
 Presenter · 6
 Bray, Ahnia
 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
 Co-author · 7
 Chauveron, Lisa
 Co-author · 8, 24
 Presenter · 13, 14
 Chen, 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
 Ciotoli, 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

Presenter · 15
 Conrad, Brett
 Presenter · 9
 Cordova, Priscilla
 Co-author · 18
 Corozine, Michael
 Co-author · 10
 Coyne, Julia
 Advisor · 25
 Cubias, Debora
 Presenter · 6
 Cushman, Paul
 Co-author · 24

D

Dallavalle, Dante
 Presenter · 7
 Darley, Jason
 Presenter · 15
 Daverio, Marie
 Co-author · 15, 21
 Davis, Bryan
 Presenter · 4
 Davis, Keyana
 Co-author · 26
 De Bari, Annamaria
 Co-author · 23
 De Silva, Saliya
 Advisor · 11
 Decker, Alexa
 Co-author · 6
 Degen, Kelly
 Presenter · 21
 DeJong, Meagan
 Presenter · 3
 Del Ciello, Matthew
 Co-author · 17
 Presenter · 12
 D'Elia, Susan
 Advisor · 8
 Presenter · 2, 6
 Deng, Yang
 Advisor · 19
 DeStefano, Andrew
 Presenter · 24
 DeVito, Alex
 Co-author · 20
 Dewart, Victoria
 Co-author · 10
 Dioguardi, Lauren
 Presenter · 15
 Diop, Fatou
 Presenter · 15
 Dodd, Kyle
 Presenter · 21
 Dojcinoski, Goran
 Presenter · 11

Donoghue, Christopher
 Advisor · 16, 17
 Drake, Ian
 Advisor · 2, 5, 6, 10,
 12, 13, 15, 18, 19,
 21, 22, 23
 Drywa, Nicholas
 Presenter · 11
 Du Barry, Scott
 Co-author · 10
 Du, Chunguang
 Advisor · 18, 22, 26
 Du, Xu
 Presenter · 12
 Dubey, Ram
 Advisor · 7
 Moderator · 7
 Ducaine, Connie
 Co-author · 4
 Dyer, Jim
 Advisor · 17
 Dykstra, Ryan
 Co-author · 20

E

Edwards, Schyler
 Presenter · 15
 Elbert, Monika
 Advisor · 7
 Emery, Elizabeth
 Advisor · 11
 Moderator · 11
 Eshuis, Henk
 Advisor · 5
 Moderator · 5, 11
 Espin, Melissa
 Presenter · 21
 Esposito, Carmine
 Presenter · 4
 Estwanick, Michael
 Presenter · 21
 Ezeiruaku, Amanda
 Co-author · 18

F

Fails, Jerry Alan
 Advisor · 24
 Favata, Marc
 Advisor · 11
 Moderator · 11
 Fernandez, Andrea
 Presenter · 24
 Ferrara, Nashali
 Presenter · 5
 Ferris, Sean

Co-author · 16
 Figuereo, Yanina
 Presenter · 21
 Fils, Cala
 Presenter · 4
 Finocchiaro, Marco
 Co-author · 17
 Fives, Helenrose
 Advisor · 6
 Moderator · 6
 Flood, Ariel
 Co-author · 23
 Presenter · 3
 Flores, Carlos
 Co-author · 22
 Presenter · 3
 Flores, Elizabeth
 Presenter · 21
 Foley, Ryan
 Presenter · 15
 Ford, Brian
 Presenter · 7
 Forgoston, Eric
 Advisor · 20
 Friebely, Alexander
 Presenter · 7
 Fuentes, Andres
 Co-author · 5

G

Gaffney, Kathleen
 Presenter · 4
 Galef, David
 Advisor · 3, 9
 Moderator · 9
 Galster, Joshua
 Advisor · 12, 18, 25
 Co-author · 12, 21
 Gama, Lauren
 Co-author · 8, 13, 14
 Presenter · 24
 Gant, Travis
 Co-author · 24
 Garcia Alzate, Paola
 Presenter · 15
 Garcia, Kilvia
 Co-author · 19
 Garcia, Omaris
 Co-author · 14
 Gavurin, Alan
 Co-author · 7
 Gaynor, Jack
 Co-author · 22
 Gaynor, John
 Advisor · 23
 Co-author · 8
 Gerken, Maike

Presenter · 4
 Gifuni, Jacqueline
 Presenter · 4
 Gill, Glen
 Advisor · 8
 Moderator · 8
 Gindt, Yvonne
 Advisor · 16
 Gleason, Erin
 Presenter · 7
 Glosoff, Harriet
 Advisor · 6
 Moderator · 3
 Glossoff, Harriet
 Advisor · 3
 Goldfarb, Eva
 Advisor · 4
 Gomez, Lesly
 Presenter · 11
 Gomez, Maria Teresa
 Co-author · 5
 Gonzalez, Joseph
 Presenter · 9
 Goodey, Nina
 Advisor · 8, 11, 15,
 17, 20
 Co-author · 11, 20
 Gould Levine, Linda
 Advisor · 9
 Graul, Kerrin
 Presenter · 8
 Greenstein, Steven
 Advisor · 24, 25
 Gross, Travis
 Presenter · 11
 Gubler, Ulrich
 Co-author · 11
 Guzner, Mariya
 Presenter · 21

H

Hadis, Benjamin
 Advisor · 11
 Hagiwara, Sumi
 Advisor · 9
 Hagmann, Diane
 Presenter · 8
 Haluska, Cory
 Presenter · 21
 Hammond, Rodney
 Presenter · 22
 Hanafy, Maged
 Co-author · 26
 Hanaka, Marta
 Co-author · 10
 Presenter · 7
 Hansen, Melissa

Presenter · 3
 Hazard, Lisa
 Advisor · 25
 Co-author · 25
 Herbert, Katherine
 Advisor · 24
 Herr, Kathryn
 Advisor · 2
 Hesse, Brandon
 Co-author · 24
 Hill, Emily
 Advisor · 24
 Hitchcock, Elaine
 Advisor · 15, 18
 Homenik, Erich
 Presenter · 22
 Hong, Duke
 Presenter · 24
 Hosick, Peter
 Co-author · 17, 25
 Hoti, Tringa
 Presenter · 10
 Houtan, Solmaaz
 Presenter · 10
 Howell, Jonathan
 Advisor · 6, 14, 23
 Hunter, Carmeria
 Co-author · 23
 Hyra, Christian
 Presenter · 12

I

Iaccarino, Valerie
 Presenter · 15
 Illnick, Victoria
 Co-author · 13, 14,
 24
 Presenter · 8

J

Jacobowitz, Tina
 Co-author · 2
 Janvier, Darlyne
 Presenter · 6
 Jaronsky, Nicole
 Co-author · 5
 Jeffers, Agatha
 Advisor · 7
 Moderator · 4
 Jensen, Rebecca
 Co-author · 8, 13, 14,
 24
 Jensen, Ricard
 Advisor · 10, 15, 16
 Moderator · 10

Johnson, Valerie
 Advisor · 13, 14, 18
 Co-author · 13, 18
 Joice-Casey, Sydney
 Presenter · 16
 Jumbo, Pamela
 Presenter · 5, 16
 Jumhour, Hussein
 Co-author · 22

K

Kani Diop, Mame
 Presenter · 11
 Kasner, Marc
 Advisor · 2, 5
 Keating, Justin
 Presenter · 22
 Keenan, Julian
 Advisor · 6
 Kelshaw, Todd
 Advisor · 4
 Kemper, Nathan
 Presenter · 16
 Khan, Matthew
 Presenter · 22
 Khim, Boo-Keun
 Co-author · 3
 Kight, Scott
 Advisor · 18
 Kim, Chang
 Co-author · 10
 Kimani, Saning'o
 Presenter · 4
 King, Ryan
 Presenter · 16
 Kingeter, Thomas
 Presenter · 10
 Klein, Emily
 Advisor · 9
 Knight, Melinda
 Advisor · 5, 7
 Moderator · 7
 Knobel, Michele
 Advisor · 8
 Moderator · 4
 Ko, Claudia
 Co-author · 6
 Kolodin, Jesse
 Presenter · 22
 Kolodynska, Kamila
 Presenter · 11
 Konas, Dave
 Advisor · 13, 14
 Kooyman, Leslie
 Advisor · 3
 Krumins, Jennifer
 Advisor · 21

Kufel, Sebastian
 Co-author · 25
 Kumar, Archana
 Advisor · 7
 Kunnippampil, Jenie
 Presenter · 22

L

Labra, Valeria
 Co-author · 5
 Labropoulos, Daphne
 Co-author · 15
 Presenter · 16, 25
 Lakusta, Laura
 Advisor · 14, 15, 18
 Lal, Pankaj
 Advisor · 16
 Co-author · 16, 22
 Lardier, David
 Co-author · 3
 Presenter · 2, 3
 Larose, Fedlene
 Co-author · 26
 Layme-Sosa, Shirley
 Co-author · 10
 Le Roux, Danielle
 Co-author · 8, 17
 Lee, Katherine
 Co-author · 17
 Lee, Lee
 Advisor · 9, 14, 16,
 18, 19, 20, 23
 Co-author · 19, 23
 Moderator · 9
 Leigh, Steven
 Advisor · 17, 25
 Co-author · 17, 25
 Moderator · 6
 Lentini, Vera
 Presenter · 5
 Levinsky, Paul
 Co-author · 14
 Presenter · 16
 Levinson, Michael
 Presenter · 3
 Levitt, Dana
 Advisor · 4
 Li, Aihua
 Advisor · 12, 14
 Li, Mengqi
 Presenter · 16
 Lian, Sue Ellen
 Presenter · 4
 Liddy, Lauren
 Co-author · 3
 Liebler, Naomi
 Advisor · 4, 10

Moderator · 2
 Ligsay, Ericah
 Co-author · 15
 Limbu, Yam B.
 Advisor · 10
 Linver, Miriam
 Advisor · 8, 13, 14, 24
 Co-author · 13, 14,
 24
 Lobato, Graziela
 Co-author · 2
 Locke, Anna Flores
 Presenter · 22
 Lopez, Yeri
 Presenter · 9
 Lopez-Baez, Sandra
 Advisor · 15, 21
 Moderator · 10
 Lorenzo-Trueba, Jorge
 Advisor · 22
 Co-author · 20
 Lovato, Kimberly
 Presenter · 4
 Lozada, Jarrell
 Presenter · 10
 Luckhardt, Jami
 Presenter · 3
 Lugo, Gloria
 Presenter · 7
 Luo, Yi
 Advisor · 2, 10
 Moderator · 6
 Luque, Amy
 Co-author · 10

M

Maani, Israa
 Presenter · 16
 MacDonnell, Marisa
 Co-author · 8, 13, 14,
 24
 Magna, Danielle
 Co-author · 21
 Mahadevan, Meena
 Co-author · 4
 Maloletkin, Anatoly
 Presenter · 22
 Malone, Stephen
 Co-author · 8
 Marrero, Alexis
 Presenter · 16
 Martin, Corby
 Co-author · 17
 Matthew, Patricia
 Advisor · 7
 Matthews, Christopher
 Advisor · 7

Maynard, Rachel
Presenter · 16

Mbai, Evans
Presenter · 2, 6

McGinnis, Joseph
Presenter · 22

McManus, Jason
Co-author · 9
Presenter · 17

Mendez, Analiss
Co-author · 26

Mendez, Juliet
Presenter · 10

Mercado, Alvin
Co-author · 24

Meredith, Robert
Advisor · 16
Co-author · 8, 22

Messyas, Adriana
Presenter · 25

Miller, Eric
Advisor · 6

Miller, Jeffrey
Advisor · 4

Minya, Thina
Presenter · 17

Miriagos, Triantafilo
Presenter · 3

Misbah, Thamanna
Co-author · 8, 17

MisirHiralall, Sabrina
D.
Presenter · 3

Mohammed Yussof, Siti
Ayuni
Co-author · 18
Presenter · 19

Mohammed-Yussof,
Siti Ayuni
Presenter · 9

Molina, Carlos
Advisor · 2, 5, 21, 26
Moderator · 5

Monsen-Collar, Kirsten
Advisor · 24
Co-author · 25

Moore, Blake
Presenter · 11

Morecraft, James
Presenter · 2, 4

Moya Gamboa, David
Presenter · 7

Munakata, Mika
Advisor · 5, 9, 17
Co-author · 17

Murray, Douglas
Advisor · 4
Co-author · 4
Moderator · 4

Mustamand, Zahra

Presenter · 12

N

Nduati, Ann
Presenter · 17

Nimbagal, Varsha
Co-author · 24

Nita, Bogdan
Advisor · 11

Nolan, Peter
Presenter · 12

Nuccetelli, Jeff
Presenter · 8

Nunez, Rossara
Co-author · 26

N'zue-Agbadou,
Seraphine
Presenter · 11

O

Oduro, Gifty
Presenter · 7

Ojinnaka, Eleanor
Co-author · 8
Presenter · 17

Okeke, Lynda
Co-author · 10

Okondo, Marian
Co-author · 20

Olmos, Alejandro
Co-author · 5

Olsen, Kevin
Co-author · 17

Oppenheim, Lois
Advisor · 4

Ortega, Reyther
Presenter · 9

Ostad-Hashemi, Keyan
Presenter · 12

Oteng, Felix
Co-author · 23

P

Panchariya, Nikita
Co-author · 24

Panorkou, Nicole
Advisor · 14, 26

Parashar, Sangeeta
Moderator · 10

Paschalis, Valerie
Presenter · 10

Passchier, Sandra

Advisor · 3, 8, 20
Co-author · 3

Pastor, Isabella
Co-author · 23

Patel, Shivani
Presenter · 9

Payidarol, Duygu
Presenter · 17

Perez-Abraham, Romy
Co-author · 11

Peterkin, Cantius
Co-author · 26

Petrillo, Christopher
Presenter · 23

Petroff, Elena
Advisor · 18

Philippe, Mendelssohn
Presenter · 17

Pigman, Loren
Presenter · 17, 25

Ponton, Delores
Co-author · 14

Pope, Gregory
Advisor · 8, 12, 20,
23, 24, 25, 26
Co-author · 13, 16,
19
Moderator · 12

Price, Jeremy
Advisor · 7

Propper, Ruth
Advisor · 10, 21

Pudlak, Elizabeth
Presenter · 17

Q

Quinn, Amanda
Co-author · 18

Quintanilla, Leonel
Presenter · 23

R

Rabbob, Labib
Co-author · 26

Ragupathy, Revathi
Co-author · 24

Rahman, Zareen
Presenter · 5, 9

Rajchel, Jessica
Presenter · 23

Ramos, Lauren
Co-author · 22

Ramos, Michael
Presenter · 2, 6

Rana, Ami

Co-author · 23

Rana, Chandni
Co-author · 19

Rana, Rima
Co-author · 18
Presenter · 23

Rana, Shivani
Co-author · 26

Ratta, John
Presenter · 10

Raza, Muhammed
Presenter · 10

Rees, Garrett
Co-author · 10

Renner, Timothy
Co-author · 13, 19

Reppert, Meghan
Presenter · 6

Restaino, Dana
Presenter · 8

Ridge, Stephanie
Presenter · 23

Rillo, Ashley
Co-author · 8

Rimmerman, Julie
Presenter · 11

Roa, Angela
Co-author · 25

Roa, Paula
Presenter · 17, 25

Robila, Stefan
Advisor · 21

Rocha-Nascimento,
Rebecca
Presenter · 23

Rogers, Dorothy
Advisor · 3
Moderator · 2

Rolling, Claire
Presenter · 25

Romo, Mishella
Presenter · 6

Rosenkrantz, Mollie
Co-author · 24

Rossi, Alessandra
Presenter · 17

Rotsides, Melissa
Presenter · 13, 18

Ruiz, Stefania
Presenter · 18

Russell, Colleen
Presenter · 18

S

Salik, Munni
Presenter · 23

Salvatore, Rosemarie

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
 Sekkas, 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
 Shubeck, Kristen
 Co-author · 18
 Siekierka, John
 Co-author · 11
 Silva, Ana
 Presenter · 10
 Simao, Fabio
 Presenter · 24
 Singletary, Tatyiana
 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
 Soriano, Karina
 Co-author · 12
 Sosa, Cesar
 Presenter · 25
 Sotilla, Susana
 Advisor · 2
 Sotillo, Susana
 Advisor · 6
 Spanakos, Tony
 Advisor · 6, 11
 Spinelli, Danielle
 Presenter · 18
 Sprague, Michiru
 Co-author · 19
 Springer, Carola
 Presenter · 18
 Stamos, James
 Presenter · 9, 18
 Stamos, Peter
 Co-author · 18
 Stanislawczyk, Monica
 Presenter · 13, 18
 Stapley, Janice
 Advisor · 2, 4
 Co-author · 2, 4
 Stewart, Pearl
 Advisor · 11, 26
 Co-author · 26
 Strandkov, Erik
 Presenter · 25
 Strobolagos, Anthony
 Co-author · 24
 Su, Haiyan
 Advisor · 8
 Suhai, Stephanie
 Presenter · 19
 Suresh, Sandeep
 Co-author · 2, 5
 Swann-Jackson, Rebecca
 Advisor · 26
 Szewczyk, Matthew
 Co-author · 7

T

Tadrick, Nicholas
 Co-author · 3
 Tahir, Hassan
 Co-author · 14, 16, 20
 Presenter · 19
 Talaga, David
 Advisor · 19
 Co-author · 19
 Talty, Colleen
 Presenter · 19

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
 Thorton, William
 Co-author · 16
 Torres, Jaelene
 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

U

Urban, Jennifer
 Advisor · 8, 13, 14, 20, 24
 Co-author · 13, 14, 24
 Moderator · 8

V

Vaidya, Ashuwin
 Advisor · 12
 Moderator · 12
 Van Eden-Moorfield, Bradley
 Advisor · 10
 Van Frank, Katherine
 Presenter · 7
 Van Sadars, Courtney
 Presenter · 4
 Vanderklein, Dirk
 Advisor · 3, 21, 23
 Co-author · 3, 17, 21
 Varde, Aparna
 Advisor · 12
 Vega, Quinn

Advisor · 10, 21
 Ventrella, Rachel
 Presenter · 24
 Vercellino, Justin
 Presenter · 5
 Vietze, Peter
 Advisor · 17, 24
 Villacreses, Javier
 Co-author · 5
 Vojnyk, Patrick
 Presenter · 19

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
 Wiseman, 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

Wunderlich, Shahla
Advisor · 19
Co-author · 19

Y

Yevtushenko, Artem
Co-author · 7, 10

Young, Michael
Co-author · 18
Presenter · 2, 5

Yu, Danlin
Advisor · 15
Co-author · 15

Yu, Karmen
Presenter · 24

Z

Zeidan, Ali
Presenter · 9
Zerbo, Salvatore
Presenter · 13, 19
Zirul, Tori
Co-author · 24
Zubi, Malik

Presenter · 26
Zughbi, Sarah
Co-author · 2, 6
Zuppichini, Mark
Presenter · 10

NOTES

NOTES

NOTES

NOTES

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Assistant Professor, School of Communication and Media,
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Dr. Douglas Murray

Assistant Professor, Health and Nutrition Sciences,
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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,
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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,
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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.

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Acknowledgements

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