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Transformation 2025 At-A-Glance

Thursday, May 1, 2025, 4:30 p.m. – 5:30 p.m.

Room 104 @ Sperry

Keynote Presentation: Queer Theory for Everybody

Dr. Teagan Bradway, Associate Professor, English, SUNY Cortland

(2025 Dr. Peter DiNardo '68 and Judith Waring Outstanding Achievement in Research Award Recipient)

Friday, May 2, 2025, 10:20 a.m. – 11:20 a.m.

Bowers Hall Session Presentations A

Session A-I Room 1129: Global Model European Union

Moderator: Scott Moranda, History

 Presentation 1: Ireland in the EU Council Layla Myers, International Studies

o **Presentation 2:** Czech Republic in the EU Council

Joshua Bates, History

o Presentation 3: Lithuania in the EU Council

Asha Younas, International Studies

o **Presentation 4:** Ireland and Lithuania in the Foreign Affairs Council

Fernanda Fernandez, International Studies

Anne Austin, International Studies

Session A-2 Room 339: Leverage AI in Psychology: Finding a Use Case

Moderator: Michie Odle, Psychology

o Presentation 1: Finding a Use Case: Building a Scheduling GPT

Olivia Velez, Psychology

 Presentation 2: Finding a Use Case: Natural Language Programming for Scoring a Complicated Rules Based Game Joshua Wlad, Psychology

o **Presentation 3:** Finding a Use Case: Data Analysis and Visualization

Anish Tokas, Psychology

 Presentation 4: Using An Al Tutor in PSY 101 - Assessment Benchmarking, and Developing a Wellness Focused GPTBrooke Semco, Psychology Dreyonna Thomas, Psychology

Session A-3 Room 136: Archival Research on the History of Varsity Sports at SUNY Cortland, 1950-2024

Moderator: Nancy Kane

o Presenters:

Marcus Derboven (Physical Education), Maria Deraco (Physical Education), Ashley Schappi (Recreation)

Session A-4 Room 1120: Individual Presentations

Moderator: Kevin Dames

Presentation 1: Mutating for Answers: Unlocking AspA's Role in Campylobacter jejuni
 Angel Alicea-Morales, Biomedical Sciences

Presentation 2: Production of a Panel of L-asparate Ammonia-lyase Enzymes and Characterization of Enzyme
 Kinetics and Identification of the Active Site of this Enzyme

Zachary Kushner, Biology

• **Presentation 3:** The Importance of Lagrange Points and their Derivation

Ryan Hayes, Physics

 Presentation 4: Collegiate Female Lacorsse Players Demonstrate Asymmetry in Time to Stabilization Following Lateral Hops

Gwyneth Laukaitis, Neuroscience

Friday, May 2, 2025, 11:30 a.m. - 12:30 p.m.

Bowers Hall Poster Presentations A

- 1A: Prevalence of Burnout in Division III Student-Athlete Gabrielle Nadler (Sport Studies)
- 2A: Pandemic-Time Social Protection: New Normals Nadiya Grossman (Political Science)
- 3A: Tracking the expansion of the Icy Bay Glacier in southern Alaska using tree-ring data Karina Mogavero (Environmental Geoscience)
- 4A: Characterization of wild type SDR 5TQV along with D180L and D180N variants Michael Catoggio (Chemistry)
- 5A: The Impact of Information Sources on Malingering Dissociative Identity Disorder Symptoms Riley Letta (Psychology)
- 6A: The effect of a 50-mile ultra-marathon race on arterial stiffness
 Victoria Cave (Exercise Science), Sophia Oristian (Exercise Science), Zoe Climenhaga (Exercise Science), Nathan Bearup (Exercise Science), Jakub Dobrowolski-Kosior (Exercise Science)
- 7A: The effect of a 50-mile ultra-marathon race on autonomic modulation
 Nathan Bearup (Exercise Science), Zoe Climenhaga (Exercise Science), Victoria Cave (Exercise Science), Jakub Dobrowolski-Kosior (Exercise Science), Sophia Oristian (Exercise Science)
- 8A: Recovery of heart rate complexity after a 50-mile ultra-marathon race
 Sophia Oristian (Exercise Science), Victoria Cave (Exercise Science), Zoe Climenhaga (Exercise Science), Jakub Dobrowolski-Kosior (Exercise Science), Nathan Bearup (Exercise Science)
- 9A: Recovery of heart rate variability after a 50-mile ultra-marathon race
 Jakub Dobrowolski-Kosior (Exercise Science), Nathan Bearup (Exercise Science), Sophia Oristian (Exercise Science),
 Victoria Cave (Exercise Science), Zoe Climenhaga (Exercise Science)
- 10A: The effect of a 50-mile ultra-marathon race on vagal modulation
 Zoe Climenhaga (Exercise Science), Jakub Dobrowolski-Kosior (Exercise Science), Nathan Bearup (Exercise Science),
 Sophia Oristian (Exercise Science), Victoria Cave (Exercise Science)
- 11A: Investigation of Variant D180E of Short Chain Dehydrogenase Reductase 5TQV Amelia Konstanty (Biochemistry)
- 12A: Is Boldness Always Adaptive? Exploring Potential Connections Between Boldness and Interpersonal Problems Miranda Aldrich (Psychology), Gabriela Solis (Psychology), Sebastian Patino (Psychology), Nicolette DeCicco (Psychology), Brittani Dauley(Psychology), Chloe Fire (Psychology)
- 13A: Synthesis of 2-phenylbenzo[d]1,3,2-diazaborole analogs Alexander Rash (Biochemistry), Joseph Vaglio (Biochemistry)
- 14A: A Systematic Review of the Measurement of Writing Quality Katharine Rudelic (Psychology), Alexa Suero (Psychology)
- o **15A:** Distribution and species composition shifts of invasive jumping worms in Taughannock State Park Hannah Vendy (Conservation Biology), Catherine Crowley (Biology), Nicolette Carluccio (Conservation Biology)
- o **16A:** Integrating Mobile App Mapping and GIS-based Models for Garlic Mustard at SUNY Cortland Campus, NY Robert Cochran (Geographic Information Systems), Zachary Biemer (Geographic Information Systems)
- 17A: Analysis of Urbanization Trends in Relation to Migration Patters of Internally Displaced People in Colombia Asha Younas (International Studies), Albert Casilla (Geographic Information Systems)
- 18A: Running Power in a Lower Body Positive Pressure Treadmill
 Andrew Kessler (Exercise Science), Zachary Taro(Exercise Science), Unobatsha Mbaiwa (Exercise Science),
 Mohammadreza Afkhami (Exercise Science), Zoe Climenhaga (Exercise Science), Amarian Hughes (Exercise Science),
 Julia Hogan (Exercise Science), Ben Woelfinger (Exercise Science)
- 19A: Synthetic Access to Phosphoprenylated Amino Acids Tazio Cutrona-Bouillon (Biochemistry)
- 20A: Using Polymer Chemistry to improve batteries Phil Masi (Biochemistry)
- o **21A:** One idea Using Polymer Chemistry to Improve Battery Technology

- Austin Dauphinais (Chemistry)
- 22A: Synthesis and Characterization of Interpenetrating Polymer Networks Kuba Szuleiko (Physics)
- 23A: Comparing Advanced Data Analysis Using Artificial Intelligence, SPSS, and Excel: Finding the Best Platform for Data Analysis in Educational Research
 - Anish Tokas (Psychology)
- 24A: Spectroscopy of 2-Phenylbenzo[d]1,3,2-diazaboroles Analogues Bradley Blake (Chemistry)
- 25A: The Effect of Environmental Enrichment on Ethanol Consumption in Prenatally Exposed Adolescent Female Rats
 - Emma Miraglia (Psychology), Luke Pelchar (Psychology), Joseph DeFeo (Psychology)

Friday, May 2, 2025, 12:40 p.m. – 1:40 p.m.

Bowers Hall Session Presentations B

Session B-1 Room 1120: Individual Presentations

Moderator: Jessica Carrick-Hagenbarth

- Presentation 1: Diversifying the Undergraduate Economics Major: The Success of Mentorship and Role Model Interventions
 - Ginger Gacio (Business Economics)
- Presentation 2: Evaluating the effectiveness of a training for caregivers on using Read and remove, Ask, Answer, Prompt (R2AAP) strategy during shared adapted book reading with their children with autism spectrum disorder (ASD)
 - Morgan Proulx, Speech and Hearing Science
- Presentation 3: Is New Media Helping or Hurting Women's Representation in Sports?
 Brianna Schermerhorn, Sport Management

Friday, May 2, 2025, 1:50 p.m. – 2:50 p.m.

Bowers Hall Poster Presentations B

- 1B: Gypsy Rose Blanchard's Online Community: Fandom Identity and Radicalized Beliefs Sasha Machmuller (Psychology)
- 2B: The Effect of Bisphenol A on Zebrafish Larval Seizure Behavior Isabell Faydalla (Biology)
- 3B: The Effect of Bullying Victimization and School Climate on Adolescents' Depression in Rural China Caroline Coronel (Psychology)
- 4B: Does Limb Specialization in Track and Field Introduce Asymmetry in Dynamic Stability?
 Aaron Jones (Exercise Science)
- 5B: Optimizing the Synthesis of Homologous Glass-forming Molecules Through Application of Microwave Irradiation
 - Sarah Kono (Chemistry)
- o **6B:** Socioeconomic Status's Prediction to Mental Health of Left-Behind Rural Chinese Adolescents Sara Bernardi (Psychology), Kyra Fennell (Psychology)
- 7B: Generating Transposon Mutants of Legionella micdadei to Study Biofilm Formation Morgan Raymond (Biomedical Sciences)
- 8B: Examining the Role of Gender, Self-efficacy, and Social Support Amongst Collegiate Athletes Alayna Miller (Kinesiology)
- 9B: The Development of an Automated Cell Identifier
 Adrianna Calangelo (Biology), Dwayne Jones (Biology), Julia Uhteg (Biomedical Sciences)
- 10B: Kinetic Characterization of D180E 5TQV, a Short-chain Dehydrogenase Reductase Darien DeFrancesco (Chemistry)
- 11B: Limited Effects of Invasive Jumping Worms on Plant Mycorrhizal Associations

- Sophie Marin (Conservation Biology)
- 12B: Relations Between the Five Factor Model and Antisocial Personality Disorder
 Miranda Aldrich (Psychology), Gabriela Solis (Psychology), Sebastian Patino (Psychology), Nicolette
 DeCicco(Psychology),
- 13B: The Effects of the Addition of Polymers in Amorphous Pharmaceuticals on Glass and Crystal Properties
 Dustine Izzo (Chemistry)
- 14B: Comparing Patterns of Flower Evolution in Diploids and Polyploid Nicotiana species Marissa McLean (Conservation Biology), Kendra Muscato (Biology)
- 15B: A GIS Perspective on the Distribution of Terrestrial Planarians (Broadhead planarians)
 Cooper McMahon (Biology)
- o **17B:** The Impact of Sensory Materials on the Behavior of Children in Early Childhood Education Hannah Holt (Childhood Early Childhood Education)
- 18B: Biochemical Characterization of Amyloid Forming Proteins that Hold Together Biofilms of Legionella Pneumophila

Jasmin Kaur (Biology)

- 19B: Regulation of Regeneration in Terrestrial Planarians Ava Miranov (Biomedical Sciences)
- 20B: Zoophycos Behavior and Depositional Environment in Middle-Devonian Oriskany and Schoharie Formations in Eastern New York

Carly Chardavoyne (Geology)

- 21B: Vague and Inconsistent Values: Analyzing Language Use about Diversity at Institutions of Higher Education Maria Meraz (Foundations and Social Advocacy)
- 22B: Effects of Invasive Earthworms, Japanese Stiltgrass, and Deer Herbivory on Zig-Zag Goldenrod (Solidago Flexicaulis) Roots

Sinem Demir (Biology)

- 23B: Effects of Serine Palmitoyltransferase Inhibition by Myriocin in Lactating Ewes: A Dose Study Chelsey Weber (Biology), Brooke Tillotson (Biology)
- 24B: Design of an Ergonomic and Sustainable Artistic Iron Furnace Chloe Loewenguth (Art Studio)

Friday, May 2, 2025, 3:00 p.m. – 4: p.m.

Bowers Hall Session Presentations C

Session C-I Room 1129: Research by History

Majors Moderator: Scott Moranda

- Presentation 1: St. Brigid's Legacy: Nationalism, Gender Roles, and Symbolic Interpretations in Ireland Olivia Svitak, History
- Presentation 2: Beyond the Crown: The 1968 Miss America Protest and the Fight for Feminism Abigail Gregory, History
- Presentation 3: The Age of Accountability: How the Death of CIA Agent Frank Olson Fits the Narrative of Government Accountability in the 1970s

Dahlia Spilka, History

 Presentation 4: The Tulsa Race Massacre: A Century of Silence, Corruption, and Injustice Matthew Irizarry, History

Session C-2 Room 1214: Interns at Work: Preserving Cultural Heritage and Promoting Educational Experiences Moderator: Sharon Steadman

 Presentation 1: Direct from the Experts: Learning How Indian and Turkish Rural Farmers are Coping with Climate Change Gabriela Castro, Anthropology

o **Presentation 2:** Navigating NAGPRA: Respecting the Indigenous Ancestors

Anjuli Latchmansingh, Archaeology

William Kennedy, Archaeology

o **Presentation 3:** Bridging the Past and Present: The Art of Conservation

Ryan Wheeler, Archaeology

 Presentation 4: "Beyond the Display": How Exhibits in Museums Can be Used to Educate Public Visitors Ryder Wynn, Anthropology

Session C-3 Room 1213: Flower evolution in Nicotiana allopolyploids

Moderator: Elizabeth McCarthy

- Presentation 1: Analysis of the Impacts of Cellular Dynamics on Floral Size in Nicotiana Polyploids of Different Ages Edie Russo, Biology
- Presentation 2: Quantifying the expression of progenitor homeologs in the genes responsible for creating floral anthocyanins in N. quadrivalvis and N. clevelandii allopolyploids
 Brooke Tillotson, Biology
- Presentation 3: Quantifying gene expression patterns using droplet digital PCR testing to determine the inheritance of flavonol production in Nicotiana section Polydicliae Alyssa Perrino, Biology

Session C-4 Room 1120: Establishing an Online Journal of Student-Authored Literary and Cultural Criticism Moderator: Danica Savonick

Presenters:

Ashley Mcgrath (Childhood and Early Childhood Education), Cassidy Augsten (Childhood and Early Childhood Education), Sebastian Barton(English), Carly Lindeman (Childhood and Early Childhood Education), Isabella DiMartino (Childhood and Early Childhood Education), Bella Retter (English), Lydia Polche (English)

Session C-5 Room 1119: Individual Presentations

Moderator: Sarah Wolf

- Presentation 1: Computational Screening and Kinetic Analysis of the Dehydrogenase/Reductase 5JY1
 Sean Zupko, Chemistry
- Presentation 2: Synthesis, characterization, and crystallization tendencies in novel small molecule glassformers
 Christopher Faherty, Chemistry
- o **Presentation 3:** Synthesis of Membrane Permeable Apppl, an endogenous inhibitor of the ADP/ATP translocase Sophia Boccio, BioChemistry

Session C-6 Room 136: Individual Presentations

Moderator: Brian Williams

 Presentation 1: Mimicking Farnesyltransferase Activity: Zinc Complexes as Catalysts for Carbon-Sulfur Bond Formation

Evan Beaudry, Biomedical Science

- Presentation 2: Impacts of varying plastic particles on sea anemone (Exaiptasia pallida) feeding responses
 Bailee Guernsey, Biology
- Presentation 3: Intro to Collective Liberation: Why All of Our Liberation is Connected Onyx Helper, Social Philosophy