

2024 STUDENT RESEARCH DAY

G A I N I N G

M O M E N T U M



Designed By
Logan Scarfo

Faculty Panel
Presentations
12:00 - 1:30 PM

Dr. Svetlana Jović

Dr. Nicole Sieben

Dr. Sara Williamson

Tuesday, April 16th

9:30 AM - 6:30 PM

Student Union MPR



TUESDAY, APRIL 16TH

CONFERENCE SCHEDULE

9:30am – 10:00am MPR lobby	Welcome and Registration
10:00am – 11:45am MPRs A & B	Panel Presentations: Session I
12:00pm – 1:30pm MPR B	National Anthem Sydney Williams, Academic Advisor Student Research Day Poster Winner Logan Scarfo OW STEAM logo announcement Faculty Panel Dr. Svetlana Jović, Assistant Professor, Psychology Dr. Nicole Sieben, Associate Professor, Secondary English Education Dr. Sara Williamson, Assistant Professor, Management, Marketing and Finance
1:30pm – 2:45pm MPR C	Poster Sessions & Art/Media Exhibits
3:00pm – 6:00pm MPRs A & B	Panel Presentations: Session II

Refreshments will be available throughout the duration of the conference in MPR C.

Panel Presentations

Multi-Purpose Rooms A & B Session I

English Department	MPRA	MPRB
<p>10:00am</p> <p><i>An Ecocritical Reading of Leslie Marmon Silko's Ceremony</i></p> <p>Magaly Garay</p> <p>Sponsor: Jessica Curran, PhD</p>	<p><i>Neurodevelopmental Lead Exposure Causes Sex-dependent Disruptions in Fronto-executive Functions That Can Be Ameliorated By Maternal Care And Environmental Enrichment</i></p> <p>Alisha Ulloa †SURC</p> <p>Sponsor: Lorenz Neuwirth, PhD</p>	
<p>10:15am</p> <p><i>The Anti-Realism of John Barth and Virginia Woolf</i></p> <p>Maggie Kurth</p> <p>Sponsor: Deepa Jani, PhD</p>	<p><i>Neurodevelopmental Lead Exposure Causes Disruptions in GABAergic Inhibitory Signals: Understanding Brain Excitability Seizure Problems Through Seizure The Rat Model</i></p> <p>Amr Ali †SURC</p> <p>Sponsor: Lorenz Neuwirth, PhD</p>	
<p>10:30am</p> <p><i>J. M. Coetzee's Postmodernist Novels</i></p> <p>Nahiyah Islam</p> <p>Sponsor: Deepa Jani, PhD</p>	<p><i>Marsha P. Johnson: A Trailblazer in LGBTQ+ Activism and History</i></p> <p>Faith Gardner</p> <p>Sponsor: Amanda Frisken, PhD</p>	
<p>10:45am</p> <p><i>Feminism in Coetzee's Foe and Disgrace</i></p> <p>Sean Robb</p> <p>Sponsor: Deepa Jani, PhD</p>	<p><i>Harmonizing Equality: Ester Dean's Journey to Empower Women in Music</i></p> <p>Angelina Fernandez †SURC</p> <p>Sponsor: Amanda Frisken, PhD</p>	

Panel Presentations

Multi-Purpose Rooms A & B

Session I

MPRA

MPRB

11:00am	<p><i>Comparative essay of Virginia Woolf and Junot Diaz</i></p> <p>Kelly Carmichael</p> <p>Sponsor: Deepa Jani, PhD</p>	<p><i>Strands of Resilience: African American Women and the Natural Hair Movement</i></p> <p>Sophie Fischetti</p> <p>Sponsor: Amanda Frisken, PhD</p>
11:15am	<p><i>Students' Attitudes Toward College Students with Criminal Records</i></p> <p>Kieran Schendel ††Panther CURE</p> <p>Sponsor: Svetlana Jović, PhD</p>	<p><i>Student Parents on College Campuses: How Structural Support is Critical to Academic Success</i></p> <p>Reilly Siebert</p> <p>Sponsor: Jillian Crocker, PhD</p>
11:30am	<p><i>Effect of pH on Superoxide Generation upon UVA Irradiation of 6-Thioguanine</i></p> <p>Damin Rush †SURC, ††Panther CURE</p> <p>Sponsor: Ruomei Gao, PhD</p>	<p><i>Visual Generic Aware Planner (GAP): Embedded Intelligent Hex-Colored Code Constructs</i></p> <p>Jaydan Eveillard, Daniela Ramos Campos †SURC</p> <p>Sponsors: Alireza Ebrahimi, PhD and Maureen Dolan, PhD</p>

Panel Presentations

Multi-Purpose Rooms A & B

Session II

MPRA

MPRB

3:00pm	<p><i>'The All-Negro Hour': Jack L. Cooper Transforms 1930s Radio</i></p> <p>Kwasi Hawthorne</p> <p>Sponsor: Amanda Frisken, PhD</p>	<p><i>Sunchoke Space Farming through Hydroponic System: Hex Color Tracking A Learner's Perspective</i></p> <p>Pooja Aiyar, Abhay Arora</p> <p>Sponsors: Alireza Ebrahimi, PhD and Maureen Dolan, PhD</p>
3:15pm	<p><i>The Image of Africa in Joseph Conrad and Chinua Achebe</i></p> <p>Franco Iampieri</p> <p>Sponsor: Deepa Jani, PhD</p>	<p><i>Sunchoke Farm Mindfulness - Learner Perspective</i></p> <p>Carol Gisselle Mendez †SURC, Santona Joseph</p> <p>Sponsors: Alireza Ebrahimi, PhD and Maureen Dolan, PhD</p>
3:30pm	<p><i>The Impact of Mentorship for African American Women Pursuing Higher Education</i></p> <p>Kaela Strayhorn</p> <p>Sponsor: Jillian Crocker, PhD</p>	<p><i>Preparing Students for the AI Era: The Importance of Learning Information Systems</i></p> <p>Kortney Henderson †SURC, Jada Cespie †SURC, Mahnoor Abbas †SURC</p> <p>Sponsor: Alireza Ebrahimi, PhD</p>
3:45pm	<p><i>Study the function of DNA insertion of Mitochondrial and Chloroplast origin to plant nuclear DNA</i></p> <p>Solomon T. Scheiner †SURC, ††Panther CURE</p> <p>Sponsor: Christos Noutsos, PhD</p>	<p><i>Learning to Code: Building Webpages for New Horizons</i></p> <p>Keilin Turcios †SURC, Kaylah Roberts †SURC</p> <p>Sponsor: Alireza Ebrahimi, PhD</p>
4:00pm	<p><i>Social Skills Procedure Presentation</i></p> <p>Hunter Gelfman</p> <p>Lina Gillic, PhD</p>	<p><i>What communication skills do employers want from new hires</i></p> <p>Christopher Castro-Andrade ††Panther CURE</p> <p>Sponsor: Katarzyna Platt, PhD</p>

Panel Presentations

Multi-Purpose Room A Session II

MPRA

4:15pm	<p><i>The Impact of Red-Pilled Ideologies on Adolescent and Young Males</i></p> <p>Farrah Naeem ††Panther CURE</p> <p>Sponsor: Svetlana Jović, PhD</p>
4:30pm	<p><i>Using Machine learning to improve sorting algorithms</i></p> <p>Aakash Saini</p> <p>Sponsor: Mohamed Khalefa, PhD</p>
4:45pm	<p><i>Training Automated Speech Recognition Systems to Code Switch using Large Language Models</i></p> <p>Alexa Rivera †SURC, ††Panther CURE, Eniola Adegbegha</p> <p>Sponsor: Renu Balyan, PhD</p>
5:00pm	<p><i>UniGather: Streamlining University Resource Allocation with a Seamless Automated Reservation System</i></p> <p>Nicholas James Smith</p> <p>Sponsor: Renu Balyan, PhD</p>
5:15pm	<p><i>Beyond the Game: Enhancing Athlete Performance through Injury Prediction in Professional Sports</i></p> <p>Christian Petersen</p> <p>Sponsor: Renu Balyan, PhD</p>
5:30pm	<p><i>Community-level factors and gun violence incidence in U.S. counties</i></p> <p>Kayla Thompson</p> <p>Sponsor: Renu Balyan, PhD</p>



Faculty Panel Presentations

12:00pm – 1:30pm
Multi-Purpose Room B

Dr. Svetlana Jović

Dr. Svetlana Jović is an Assistant Professor of developmental psychology in the Psychology Department at State University New York (SUNY), Old Westbury. She is a sociocultural psychologist with expertise in diverse methods of critical sociocultural analysis, including narrative, sociolinguistic, visual, and spatial analysis. Dr. Jović's research concerns socio-cognitive development among children and youth in challenging contexts, including poverty, migration, cultural diversity, and integration. Through acknowledging the detrimental effects of the socioeconomic and political challenges that many children and youth experience, Dr. Jović's work emphasizes the socio-cognitive advantages that young people growing up in adversity acquire.

Prior to joining the SUNY Old Westbury faculty in 2018, Dr. Jović was visiting faculty at Pratt Institute (2014-2018) and Brooklyn College (2017-2018), writing fellow at Bronx Community College (2013-2016) and a teaching fellow at the Psychology Department at Hunter College (2010-2013). Her scholarly work has been supported and recognized with grants and awards from the National Science Foundation, Mellon Foundation, American Psychological Association, the City University of New York, Pratt Center for Community Development, and Open Society Foundation, among others.

Dr. Jović earned her BA and MA from the University of Belgrade, Serbia, and her MPhil and PhD from the Graduate Center of the City University of New York.



Faculty Panel Presentations

12:00pm – 1:30pm
Multi-Purpose Room B

Dr. Nicole Sieben

Dr. Nicole Sieben is Associate Professor of Secondary English Education, Chair of the Adolescence Education Department in the School of Education, and the Coordinator for the Graduate Programs in English Education. A former high school English teacher and leadership trainer in New York, Sieben's research focuses on building "writing hope" in secondary and postsecondary education, social justice practices, and professional development practices in K-12 schools and teacher education. Sieben is author of the (2018) book, *Writing Hope Strategies for Writing Success in Secondary Schools: A Strengths-Based Approach to Teaching Writing*, co-editor of the books, *Narratives of Hope and Grief in Higher Education* (2020) and *Humanizing Grief in Higher Education: Narratives of Allyship and Hope* (2021), journal editor for the special issue of the research journal, *English Education*, "Designing Professional Development for Equity and Social Justice," and former column editor (2018-2020) for *English Journal's* Books-in-Action column, which focused on texts that cultivate hope in the ELA classroom. Sieben is the recipient of the 2010 *NCTE Edwin M. Hopkins Award* for her March 2009 *English Journal* article "'Watch What You Teach': A First-Year Teacher Refuses to Play It Safe," and the recipient of the 2017 *Article of the Year Award* for her article, "Teaching Writing Hope for a Just Writing Society" published in 2016 in *The English Record*. She has participated in several grants that focus on social justice practices in secondary and postsecondary schools, including one that focused on teaching writing hope through social justice practices. Sieben is excited to share her passion for teaching and life-long learning (as an educator-researcher) with the SUNY Old Westbury Community at Student Research Day.



Faculty Panel Presentations

12:00pm – 1:30pm
Multi-Purpose Room B

Dr. Sara Williamson

Dr. Sara Williamson is an Assistant Professor of Marketing and a specialist in consumer psychology. Her research investigates the impacts of subtle and often overlooked contextual factors that influence why and how people choose and use products. Through her work, she examines consequential and sometimes sub-optimal consumer behavior such as food and material waste, unhealthy consumption or over-indulgence, and misinterpretation of product attributes. In doing so, her work provides actionable guidance for improving consumer experiences through marketing and public policy. Dr. Williamson's research contributions to societal well-being have been awarded by the American Marketing Association and published in some of the field's most prestigious journals, including *Journal of Consumer Psychology*, *Journal of the Academy of Marketing Science*, and *Journal of Public Policy & Marketing*.

Dr. Williamson earned her PhD in Business with a specialization in Marketing from CUNY Baruch College, and she has been teaching undergraduate and executive MBA marketing courses since 2011. Prior to becoming a professor, Dr. Williamson established more than a decade of professional experience in sales and marketing within both private and public sectors along the food and CPG value chain.

Poster and Art/Media Presentations

1:30pm – 2:45pm
Multi-Purpose Room C

Biological Sciences

Investigating gene functions in the F1 cluster phage Akhila

Alaina Adams-Ludd, Terrence Holland

Sponsor: Jillian Nissen, PhD

The Healing Effects of Flavonoids & how they Ameliorate Diabetic Nephropathy through suppressing ROS and NLRP3 inflammasome

Amy Blackmore

Sponsor: Christos Noutsos, PhD

The Role of HEXIM-1 in Th1 Mediated Immune Response to Trypanosoma cruzi in Mice

Daniel Evans ††Panther CURE, Evgenia Katehis †SURC, ††Panther CURE

Sponsor: Sangeeta Nischal, PhD

The Chemokine, CXCL12, Stimulates Migration of Hypothalamic Neurons

Ashley Marie Macias †SURC, ††Panther CURE

Sponsor: Kinning Poon, PhD

Arhtrobacter globiformis NRL B-2880 bacteriophages Isolated and Characterized from local soils from Long Island

Eshal Mohiuddin †SURC, Judy Hasan-Hafez †SURC, Zara Kabir †SURC, Gabriella Azab †SURC

Sponsor: Fernando Nieto, PhD

Role of CXCL12 in Maternal High-Fat Diet Effects on Offspring

Khadiza Nilima †SURC, ††Panther CURE

Sponsor: Kinning Poon, PhD

Meta-inflammation Increases the Migration and Invasiveness Potential of Prostate Cancer Cells

Agustin Beas Romero †SURC

Sponsor: Maria Zulema Cabail, PhD

Tracking the Eastern Expansion of the Coyote (Canis latrans var.) on Long Island

Miura Traficante ††Panther CURE

Sponsors: Fernando Nieto, PhD and Coby Klein, PhD

Poster and Art/Media Presentations

1:30pm – 2:45pm
Multi-Purpose Room C

Chemistry & Physics

The study of sulfide hydrogen bond: A progress report

Grace Godina Aidoo ††Panther CURE, Nehemie Guordet ††Panther CURE

Sponsor: Bright Emenike, PhD

Effect of Microplastics on Autism Spectrum Disorder

Melodie Cadichon †SURC, ††Panther CURE

Sponsor: Youngjoo Kim, PhD

Quantifying Aromatic Stacking Interactions as a function of solvation

Anthony Bekoe Darko ††Panther CURE

Sponsor: Bright Emenike, PhD

Elucidating the Binding Mechanisms and Dynamics of Phosphorylated Peptides with PTP1B through Computational Simulations

Bernard Essuman ††Panther CURE

Sponsor: Youngjoo Kim, PhD

Effects of a G220D mutation on PTP1B and its interaction with the EGFR

Thiago Figueiredo ††Panther CURE

Sponsor: Youngjoo Kim, PhD

Fluoride Ions in Type II Crystalline Clathrate Hydrates

Cherica Quintyne-Best

Sponsor: Camille Jones, PhD

Quantifying Anion's Interactions with Electron-Deficient Rings

Vishal Rattu, Amy Sanchez ††Panther CURE

Sponsor: Bright Emenike, PhD

Management, Marketing and Finance

UX Research Project: The Walmart App

Thais Ramos Caldeira, Daniela Ramos Campos †SURC

Sponsor: Sara Williamson, PhD

Poster and Art/Media Presentations

1:30pm – 2:45pm
Multi-Purpose Room C

Mathematics, Computer Information Systems and Management Information Systems

ChatGPT, a Blessing or Curse? Understanding Public Sentiments on Twitter about the Influence of ChatGPT in Various Sectors

Marcos Isael Padilla Acevedo, Nawal Sarwar

Sponsor: Shebuti Rayana, PhD

Native American Community Culture & Management Information Systems: An Unlikely Historic Collaboration

Jackson Beach

Sponsor: Christine Keller, MA, MS

Deciding on a College Transfer: Uncovering Transition Queries and Concerns via Reddit Topic Modeling

Rudy Caraballo

Sponsor: Shebuti Rayana, PhD

Network Slicing for 5G-enabled IoT Devices using Reinforcement Learning

Logan Sherlock

Sponsor: Renu Balyan, PhD

Psychology

Why do League of Legends Players Partake in Toxic and Discriminatory Behavior?

Nathan Jainchill

Sponsor: Ashlee Lien, PhD

Media Use and the Perception of the Israel-Palestine Conflict

Aliya Jooma

Sponsor: Ashlee Lien, PhD

Empathetic Autonomy: Locus of Control's Resonance in Human Connection

Naome Khan

Sponsor: Svetlana Jović, PhD

Voices of Experience: Media Portrayals of Diabetes' Impact on Individuals with Type I Diabetes

Gabriela Santaniello

Sponsor: Ashlee Lien, PhD

Identifying protective factors in LGBTQ+ suicide risk: The impact of community and authenticity

Colette R. Vaughan †SURC

Sponsor: Erik Benau, PhD

Poster and Art/Media Presentations

1:30pm – 2:45pm
Multi-Purpose Room C

Sociology

Local News Media Coverage and Media Landscape Impact on Political Outcomes

Jonathan Ficco

Sponsor: Diana Papademas, PhD

The Role of Watching Sports on Anger in the Daily Life

Erin McInerney

Sponsor: Rachel Kalish, PhD

Special Education Childhood

Student self-selection of writing topics keeps them motivated and engaged

Ashley Neyra

Sponsor: Rina Di Re, MS

The Importance of Writing and Choice in the Classroom

Jessica Schweers †SURC

Sponsor: Rina Di Re, MS



ACKNOWLEDGEMENTS

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Research Day Committee

Renu Balyan, Assistant Professor, Mathematics & Computer Information Science

Erik Benau, Assistant Professor, Cognitive Psychology

Betty Berbari, Assistant Dean, School of Arts and Sciences

Fatima Bhalli, Undergraduate student, Biological Sciences and Politics, Economics and Law

Monique Clark, Co-director, CSTEP & LSAMP

Alireza Ebrahimi, Associate Professor, Management, Marketing & Finance

Amanda Frisken, Professor, American Studies and Media and Communications

Lina Gilic, Assistant Professor, Exceptional Education & Learning

Eric Hagan, Assistant Professor, Visual Arts

Deepa Jani, Assistant Professor, English

Melia Mirdha, Undergraduate Student, Biological Sciences

Christos Noutsos, Assistant Professor, Biological Sciences

Lorraine Todisco, Director, Career Services, External Relations & Administration



The United Nations

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*as a member of the United Nations Academic Impact
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- ▶ Commitment to the United Nations Charter
- ▶ Human rights
- ▶ Educational opportunity for all
- ▶ Higher education opportunity for every interested individual
- ▶ Capacity-building in higher education systems
- ▶ Global citizenship
- ▶ Peace and conflict resolution
- ▶ Addressing poverty
- ▶ Sustainability
- ▶ The "unlearning" of intolerance

Cristina Gallach

Under-Secretary-General for Communications and Public Information
Department of Public Information
United Nations

Student Research Day

Research & Responsibility

Dr. Sandra Dunn 2009

Idealism through Pragmatism

Richard Amper 2010

Food for Thought

James Early 2011

R/Evolution

Dr. Guobin Yang 2012

Build Back Better

Stephen Teref, JD 2013

Rights and Responsibilities

Max Kenner
2023

Research for Change

Dr. Faye Ginsburg
2019

SURC virtual

Dr. Robert Muscil
2021

Show & Tell

Chiqui Esteban
2022

2024 Gaining Momentum

Dr. Svetlana Jovic
Dr. Nicole Sieben
Dr. Sara Williamson

Space

Dr. Frances Piven
2014

Culture & Community

Peggy Shepard
2015

Silence & Voice

Dr. Madeline Fox
2016

Leveling the Playing Field

Carmen Perez 2017

Movement & Motion

Dr. Sylvester Gates
2018