



BUFFALO STATE
The State University of New York

1300 ELMWOOD AVENUE
BUFFALO, NEW YORK 14222

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13TH ANNUAL

GRADUATE STUDENT RESEARCH FAIR

Buffalo State 3-Minute Capstone Contest Finals

Graduate Studies Awards Presentation

Graduate Student Poster Session

Friday, May 10, 2024 | Campbell Student Union | 5:00 p.m.—7:30p.m.



Notes:

Special Thanks



Dr. Bonita Durand, Interim President

Dr. Amitra Wall, Interim Provost

2023-2024 Graduate Advisory Council Members

Fiona Beckett, GAC Chair, Patricia H. and Richard E. Garman Art Conservation

Alexandra Allen, Art & Design

Saquib Ahmed, Engineering Technology

Hermen Diaz III, Higher Education Administration

Keli Garas-York, Elementary Education, Literacy, Educational Leadership

David Henry, Elementary Education, Literacy, Educational Leadership

Joonyeong 'Jamie' Kim, Chemistry

Lorena Mathien, Business

Gehan Senthinathan, Social & Psychological Foundations of Education,
and Adult Education

Kevin J. Miller, Ex-Officio

Ian Leberman, Graduate School

Faculty, Staff, and Students

Kaylene Waite, Design and Print Center

Events Management Office

Niagara Awards

Chartwells Catering



BUFFALO STATE
The State University of New York



GRADUATE STUDIES

BUFFALO STATE • The State University of New York

Program



Buffalo State 3-Minute Capstone Contest Finals

Assembly Hall | 5:00 p.m.

Award Presentations & Recognitions

Social Hall | Following Capstone Contest

Outstanding Master's Project and Thesis Awards

Welcoming Remarks

Shenese Patterson, GSA President

Cinnamon Morris, GSA Executive Vice President

Dr. Kevin J. Miller, Director, Graduate Studies

Dr. Bonita Durand, Interim, President

Presentation of Awards

Dr. Kevin J. Miller, Director, Graduate Studies

Dr. Fiona Beckett, Chair, Graduate Advisory Council

Dr. Bonita Durand, Interim, President

Recognition of GSA Merit-Based Scholarship Winners

Graduate Student Association Officers

Dr. Kevin J. Miller, Director, Graduate Studies

Graduate Student Research Fair

Poster Presentation

Social Hall | Following Awards & Recognitions Presentations

2024 GSA Merit-Based Scholarship Recipients

Amani Al-Karkhi, Conflict Analysis & Resolution, M.S.

Mimi Byrne, Biology, M.S.

Amber Crittenden, Career & Technical Education, M.S. Ed.

Darcy Conley, Music Education, M.S.Ed., M.M.

Angelina Cruzal, English, M.A.

Uttam Lakshmi Mounika Goruganthu, Data Science & Analytics, M.S.

Kaitlyn Hyers, Speech-Language Pathology, M.S. Ed.

Sarah Jackson, Childhood & Early Childhood Curriculum, and Instruction M.S. Ed.

Jennifer Kelly, Science Education-Biology, M.S. Ed.

Taylor Morris, Social Studies Education, M.S. Ed.

Anuoluwapo Olatunji, Public Relations, M.S.

Shenese Patterson, Higher Education and Student Affairs, M.S.

Madison Whitesell, Conservation of Art & Cultural Heritage/Science & Imaging, MA.

Samantha Wild, Biology, M.A.

Thank you to the 2024 Merit Based Scholarship Review Committee

Dr. Lorena Mathien, Business

Dr. Fiona Beckett, Patricia H. and Richard E. Garman Art Conservation

Dr. Keli Garas-York, Elementary Education, Literacy & Educational Leadership

Dr. Gehan Senthinathan, Social and Psychological Foundations of Education
and Adult Education

Save the Date

14th Annual Graduate Student Research Fair

May 9 2025



Buffalo State is home to the only stand-alone graduate student association among the comprehensive SUNY institutions. The establishment of this organization occurred during the spring semester of 2012. Over the past 11 years, the GSA student leaders have worked to develop a constitution, create funding guidelines to support student research, scholarship, and professional affiliation, and enhance the overall graduate student experience. To date, the GSA has supported over 400 graduate students; offering over \$330,000 in support.

2023-2024 Executive Board

Shenese Patterson, President
Cinnamon Morris, Executive Vice President
Clivens Fresnel, Vice President for Finance
Desiray Slaughter, Vice President for Administration

Student Senators

Lisa Michael, School of Professions
Donald "DJ" Hardwick, School of Professions
Dominique Parke, School of Professions
Navya Mehta, School of Arts & Sciences
Katherine Miromonti, School of Arts & Sciences
Itoko Kobayash, School of Education
Veronica Golden, School of Education
Layla Dubose, School of Education

Faculty Adviser

Dr. Frederick Floss, Professor, Economics & Finance

Administrative Liaison

Dr. Kevin J. Miller, Director, Graduate Studies

Buffalo State 3-Minute Capstone Contest

The 3-Minute Capstone Contest began as the 4-Minute Thesis Contest in 2016 to celebrate the exciting research conducted by graduate students across a spectrum of disciplines. In 2021 it was revised to the 3-Minute Capstone Contest and started to include Master's Projects. The goal of the contest is to provide an environment where graduate students have the opportunity to communicate their research in three minutes in a language appropriate for a non-specialist audience and in as entertaining a way as possible. One PowerPoint slide is permitted, but no other visual aides are allowed.

Participants

Parkinson's Disease and Voice Perception: A Little Bit Louder Now!

Taylor DeSimone, Speech-Language Pathology, M.S.Ed.
Co-Author: Samantha Manes, Speech-Language Pathology, M.S.Ed.
Faculty Advisor: Dr. Anita Senthinathan, Speech-Language Pathology

Chemical Warfare: How Hardcore Does Plant Competition Get?

Mimi Byrne, Biology, M.A.
Faculty Advisor: Dr. Robert J. Warren II, Biology

Breaking the Cycle of Disengagement Through Collaborative Re-engagement Strategies

Anna J. Rubino, Art Education, M.S.Ed.
Faculty Advisor: Dr. Alexandra R. Allen, Art & Design

Co-Constructing Arts Curricula and Its Effects on Online Student Engagement

Noah A. Ost, Art Education M.S.Ed.
Faculty Advisor: Dr. Alexandra R. Allen, Art & Design

Play Based Learning in the Art Classroom

Julie G. LaManna, Art Education M.S.Ed.
Faculty Advisor: Dr. Alexandra R. Allen, Art & Design

Redefining Creativity: Applying Design Thinking in the Art Classroom

Douglas W. Pashley, Art Education M.S.Ed.
Faculty Advisor: Dr. Alexandra R. Allen, Art & Design

Thank you to the 2024 3-Minute Capstone Contest Judges

Shenese Patterson, GSA President
Herman Diaz III, Higher Education Administration
Gehan Senthinathan, Social & Psychological Foundations
Christopher Hulsman, Senior Assistant Librarian, Butler Library
Daniel DiLandro, Buffalo State Archivist/Special Collections Librarian

2024 Outstanding Master's Award Recipients

In 2004, the Graduate Advisory Council initiated the Outstanding Master's Thesis and Outstanding Master's Project Awards to recognize students whose special achievements demonstrated the highest standard of scholarship. Congratulations to our winners!

Synthesis and Characterization of Heptamethine Indocyanine Dyes for Near-IR (NIR) Surface-Enhanced Raman Scattering (SERS) Reporters

Daniel L. Weglarski, M.S.

Thesis Advisers:

Dr. Sujit Suwal, Associate Professor, Chemistry

Dr. Jinseok Heo, Associate Professor, Chemistry

How General Religiosity Predicts Voice Behaviors: The Mediating Role of Prosocial Motivation

Joy Opoku, M.S.

Thesis Adviser: Dr. Alexander Ehms, Assistant Professor, Business

The Impact of Writing Rockstar Mystery Motivator on On-task Behavior in a Second Grade Inclusion Classroom

Gabriella Loewer, M.S.Ed., Clare McKeone, M.S.Ed., Julianna Owczarczak, M.S.Ed.

Project Adviser: Dr. Shannon E. Budin, Professor, Exceptional Education

Thank you to the 2024 Outstanding Master's Thesis and Project Awards Committee

Dr. Fiona Beckett, Patricia H. and Richard E. Garman Art Conservation Department

Dr. Gehan Senthinathan, Social & Psychological Foundations

Dr. Alexandra Allen, Art & Design

Dr. Herman Diaz, Higher Education Administration

The Impact of Universal Design for Learning in a Visual Arts Curriculum for Students with Disabilities

Brianne Nightingale, Art Education, M.S.Ed.

Faculty Adviser: Dr. Alexandra Allen, Art & Design

Co-Constructing Arts Curricula and its Effects On Online Student Engagement

Noah Ost, Art Education, M.S.Ed

Faculty Adviser: Dr. Alexandra Allen, Art & Design

Collaboration & Communication: An Authentic Connection Between Core Course & Art Educators

Jenna Outten, Art Education, M.S.Ed.

Faculty Adviser: Dr. Alexandra Allen, Art & Design

Redefining Creativity: Applying Design Thinking in the Art Classroom

Doug Pashley, Art Education, M.S.Ed.

Faculty Adviser: Dr. Alexandra Allen, Art & Design

Breaking the Cycle of Disengagement Through the Use of Collaborative Re-engagement Strategies

Anna Rubino, Art Education, M.S.Ed.

Faculty Adviser: Dr. Alexandra Allen, Art & Design

"Swiftly" Degrading: Identifying the Polymeric Composition of a Jelly Shoe

Caitlin Green, Conservation of Science and Imaging, M.S. & Conservation of Art and Cultural Heritage, M.A.

Faculty Adviser: Dr. Rebecca Ploeger, Patricia H. and Richard E. Garman Art Conservation

Mystery Polymer: Analysis of a Twentieth-Century Book Cover

Katherine Miromonti, Conservation of Science and Imaging, M.S. & Conservation of Art and Cultural Heritage, M.A.

Faculty Adviser: Dr. Rebecca Ploeger, Patricia H. and Richard E. Garman Art Conservation

Analysis of Mystery Polymers in Baseball Garfield

Stephanie Gold, Conservation of Science and Imaging, M.S. & Conservation of Art and Cultural Heritage, M.A.

Faculty Adviser: Dr. Rebecca Ploeger, Patricia H. and Richard E. Garman Art Conservation

AI-Driven Data Access Solution

Mounika Goruganthu, Data Science and Analytics, M.S., and Eric Barton, Computer Information Systems, B.S.

Faculty Adviser: Dr. Joaquin Carbonara, Data Science & Analytics

ClinIQ - Enhancing Clinical Trial Searching and Accessibility for Cancer Patients using Artificial Intelligence

Mounika Goruganthu, Data Science and Analytics, M.S., Dan Kozlowski, Data Science and Analytics, M.S., John England, Data Science and Analytics, M.S., Samantha Woughter, Data Science and Analytics, M.S., Max Pilat, Data Science and Analytics, M.S., and Fredrick Fordjour Data Science and Analytics, M.S.

Faculty Adviser: Dr. Amin Serehali, Mathematics

School of Arts & Sciences

Art Teacher Burnout and The Condition of The Art Educator in Schools

Jennifer Alvarez Villalobos, Art Education, M.S.Ed.
Faculty Adviser: Dr. Alexandra Allen, Art & Design

Vegetable Ivory

Samara Ayvazian Hancock, Conservation of Science and Imaging, M.S. & Conservation of Art and Cultural Heritage, M.A.
Faculty Adviser: Dr. Rebecca Ploeger, Art Conservation

Intra and Interspecific Competition Via Allelopathy Among Native and Non-Native Plants

Mimi Byrne, Biology, M.A.
Faculty Adviser: Dr. Robert Warren, Biology

An Investigation Into the Composition of a Photographic Negative

Margaret Canfield, Conservation of Science and Imaging, M.S. & Conservation of Art and Cultural Heritage, M.A.
Faculty Adviser: Dr. Rebecca Ploeger, Art Conservation

Aligning Pedagogy with Philosophy

Rachel Drenkhahn, Art Education M.S.Ed.
Faculty Adviser: Dr. Alexandra Allen, Art & Design

Synthesis of Small Molecules and Testing of Their Antibacterial Properties

Robert Ernst, Forensic Science, M.S.
Faculty Adviser: Dr. Sujit Suwal, Chemistry

Utilizing Material Exploration Without a Classroom

Emily Gammel, Art Education M.S.Ed.
Faculty Adviser: Dr. Alexandra Allen, Art & Design

Play-Based Learning in the Art Classroom

Julie LaManna, Art Education, M.S.Ed.
Faculty Adviser: Dr. Alexandra Allen, Art & Design

In Pursuit of Perfection: Recreating a 16th-century Panel Painting with Da Vinci's Methods

Kelsey Marino, Conservation of Science and Imaging, M.S. & Conservation of Art and Cultural Heritage, M.A.
Faculty Adviser: Dr Emily Hamilton, Art Conservation

Research Fair Participants

School of The Professions

Successes and Challenges of Mentorship: Perspectives from the Mentors

Kwadwo Agyekum, Speech-Language Pathology, M.S. Ed.
Faculty Adviser: Dr. Maldonado, Speech-Language Pathology

St. Basil Food Pantry Needs Assessment

Abigail Alder, Dietetics, M.S.
Faculty Adviser: Dr. Tina Colaizzo-Anas, Health, Nutrition, and Dietetics

Nutrition Education Intervention to Improve Food Pantry Users Beans Selection

Narmeen Alfahal, Dietetics, M.S.
Faculty Adviser: Dr. Tina Colaizzo-Anas, Health, Nutrition, and Dietetics

Caregivers Perception Of the Infant Formula Shortage And the Impact On Breastfeeding and Formula Feeding

Kaylee Crone, Dietetics, M.S., Brianna Wik, Dietetics, M.S.
Faculty Adviser: Dr. Michele Georgen, Health, Nutrition, and Dietetics

Pilot Study: Speech Production and Evoked Potentials in Individuals with Parkinson's Disease

Taylor DeSimone, Speech-Language Pathology, M.S.Ed., Samantha Manes, Speech-Language Pathology, M.S.Ed.
Faculty Adviser: Dr. Anita Senthinathan, Speech-Language Pathology

Breaking Barriers in Higher Education

Farida Hosaini, Higher Education and Student Affairs Administration, M.S.
Faculty Adviser: Dr. Kimberly Kline, Higher Education Administration





School of The Professions

Impact of Donor Education on Food Donations

Maysa Jhumi, Dietetics, M.S.

Faculty Adviser: Dr. Tina Colaizzo-Anas, Health, Nutrition, and Dietetics

Saturated Fat Food Intake of Volunteer Firefighters

Megan Miller, Dietetics, M.S.

Faculty Adviser: Dr. Leah M. Panek-Shirley, Health, Nutrition, and Dietetics

Nutrition Education Improves Sports Nutrition Knowledge, but not Intake Among Division III Male Soccer Players

Perry Schmidt, Dietetics, M.S.

Faculty Adviser: Dr. Leah M. Panek-Shirley, Health, Nutrition, and Dietetics

Parkinson's Disease Case Study

Sharon Tudorovsky, Speech-Language Pathology, M.S. Ed.

Faculty Adviser: Dr. Anita Senthinathan, Speech-Language Pathology



School of Education

Increasing Play to Reduce Suspension

Veronica Golden, Educational Leadership Combined School Building Leader/School District Leader (SBL/SDL) , C.A.S.

Faculty Adviser: Fran Paskowitz, C.A.S., Education Leadership

The Impact of Writing Rockstar Mystery Motivator on On-Task Behavior in a Second Grade Inclusion Classroom

Gabriella Loewer, Special Education: Early Childhood Program, M.S..Ed. Clare McKeone, Special Education: Early Childhood Program, M.S..Ed. and Julianna Owczarczak, Special Education: Early Childhood Program, M.S..Ed.

Faculty Adviser: Dr. Shannon Budin, Exceptional Education

