



2023
Salisbury University Student Research Conference

*21st Annual Salisbury University
Student Research Conference
Friday, April 21st, 2023*

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Conference Outline

Registration Oral Presentation

Session 1: 1:30 p.m. – 2:50 p.m.

<u>Panel</u>	<u>Room</u>
A1	PH 151
B1	PH 274
C1	PH 275
D1	PH 277

Oral Research Presentations

Title

**Biology and Chemistry
Conflict Analysis, Communication, and Exercise
Education I and Public Relations
Economics and Mathematics**

Session 2: 3:00 p.m. – 4:20 p.m.

<u>Panel</u>	<u>Room</u>
A2	PH 151
B2	PH 274
C2	PH 275
D2	PH 277

Oral Research Presentations

Title

**English and Literacy
Philosophy I – Ethics Bowl Demonstration
Education II
History I**

Session 3: 4:30 p.m. – 5:50 p.m.

<u>Panel</u>	<u>Room</u>
A3	PH 151
B3	PH 274
C3	PH 275
D3	PH 277

Oral Research Presentations

Title

**Environmental Studies
Philosophy II and Psychology
Information Science, Languages, and Physics
History II and Political Science**

Poster Presentation

Guerrieri Academic Commons, 4th Floor Assembly Hall

Welcome with Opening Remarks & Outstanding Research Mentor Award

6:00 p.m. – 6:30 p.m.

Poster Presentations & Refreshments

6:30 p.m. – 7:30 p.m.

The Registration & Information table will be open:

12:30 p.m. - 4:30 p.m. Perdue Hall Lobby

5:00 p.m. - 6:00 p.m. Guerrieri Academic Commons, 4th Floor Assembly Hall

Registration Perdue Hall Lobby 12:30 p.m.-4:30 p.m. (Presenters need to register one hour before their presentation session)

Information Table Volunteers:

Pre-sessions (Perdue Hall Lobby): 12:30 p.m.-1:30 p.m.

Brent Fedorko, Exercise Science

Yuki Okubo, Psychology

Victoria Adeniran, University Dining Services

Suzanne Osman, Psychology

Session 1 (Perdue Hall Lobby): 1:30 p.m.-3:00 p.m.

Emily Zerrenner, SU Libraries

Ricardo Vazquez Diaz, Modern Language & Intercultural Studies

Elizabeth Emmert, Biology

Kendall Beauchamp
Faculty Mentor: Dana Price, Biological Sciences

2:30-2:45 **Determining the Relationship Between Shape and Charge in Electrospray Ionization**
Stefani Lanahan
Faculty Mentor: David Keifer, Chemistry

B1 Conflict Analysis, Communication, and Exercise *Moderator: Christian Boso*

1:30-1:45 **Modern Conflict Requires New Peace**
Jared Galley
Faculty Mentors: Brittany Foutz, Conflict Analysis and Dispute Resolution and Brian Polkinghorn, Conflict Analysis and Dispute Resolution

1:50-2:05 **How Larry David's and Jerry Seinfeld's Seinfeld Normalizes the Objectification of Woman**
Ryan Mackesey
Faculty Mentor: Michael Moeder, Department of Communication

2:10-2:25 **Prosthetics in Sports Medicine**
Brea Glickman
Faculty Mentor: Zachary Townsend, Exercise Science

C1 Education I and Public Relations *Moderator: Susan Mahoney*

1:30-1:45 **Diversity in Outdoor Recreation: Exploring the Marketing Sector**
Morgan Mathey
Faculty Mentor: Diana Wagner, Education Leadership

1:50-2:05 **Rewiring the Brain: Wilderness Therapy in Addictions Treatment**
Rachel Brobst
Faculty Mentor: Diana Wagner, Education Leadership

2:10-2:25 **Screen Time vs. Tree Time: The Impacts on Mental Health**
Garrett Herr
Faculty Mentor: Diana Wagner, Education Leadership

2:30-2:45 **Twenty Days Abroad: A Documentary**
Bridget Hayes
Faculty Mentor: Megan Baker, Public Relations

D1 Economics and Mathematics *Moderator: Kristen Walton*

1:30-1:45 **Effects of Protected Areas on Human Migration**
Brendan Elliott
Faculty Mentor: Laura Villalobos, Economics and Finance

1:50-2:05 **ChatGPT and the U.S. Labor Market/ Preliminary Analysis**
Dylan Olen, Ryan Shroyer, Peyton Barnes, Eli Johnson
Faculty Mentor: Hong Yao, Economics and Finance

2:10-2:25	Supervised Learning of Cancer Types Using Gene Copy Numbers <u>Joseph Kim</u> Faculty Mentor: Kyle Teller, Mathematics
2:30-2:45	Efficient and Robust Learning of Simplices <u>Blaine Mason</u> Faculty Mentor: Michael Bardzell, Mathematics
■ <i>Second Oral Session</i>	<i>3:00 p.m. - 4:20 p.m.</i>
A2 English and Literacy	<i>Moderator: Carolyne King</i>
3:00-3:15	Researching the Influence and Contribution of Different Factors in Adult Second Language Learning Through Female Adult Immigrants' Study and Living Experience <u>Jun Zhang</u> Faculty Mentor: Derya Kulavuz-Onal, English
3:20-3:35	The Constitution and the Transition of Executive Power: Insidious Fictions and Modern Insurrection <u>Joshua Downes</u> Faculty Mentor: John Wenke, English
3:40-3:55	Representing Diverse Identities in the Marvel Cinematic Universe <u>Quentin Parker</u> Faculty Mentor: Beth Towle, English
4:00-4:15	No Tea No Shade: Repurposing Language Usage Perceptions <u>Emily Madison</u> Faculty Mentor: Shannon Kelley, Literacy Studies
B2 Philosophy I – Ethics Bowl Demonstration	<i>Moderator: Noah Bressman</i>
3:00-4:15	Ethics Bowl Demonstration <u>Gabriella Seetoo-Ronk, Liam McGinnes, Wyatt Parks, Sarah Bianca, Megan Rayfield, Kailyn Luettgenau, Sara Sellers</u> Faculty Mentor: Grace Clement, Philosophy
C2 Education II	<i>Moderator: Kevin Glover</i>
3:00-3:15	Hard Headed: Mitigating Head Injuries in Outdoor Recreation <u>Trey Cody</u> Faculty Mentors: Diana Wagner, Education Leadership; Christina Harper, Education Leadership
3:20-3:35	Not Just Dirt: The Importance of Soil Health to Urban Greenspaces <u>Alexis Sanchez-Benitez</u> Faculty Mentor: Diana Wagner, Education Leadership
3:40-3:55	Wilderness Therapy: Exploring the Role of Outdoor Engagement on Young Adults' Mental Health

Ethan Emkey

Faculty Mentor: Diana Wagner, Education Leadership

4:00-4:15

An Oasis in the Desert: A Literature Review of Urban Gardening

Logan Carey

Faculty Mentor: Diana Wagner, Education Leadership

D2 History I

Moderator: Kevin Birch

3:00-3:15

Hip-Hop at Home and Abroad

Tyler Wilson

Faculty Mentor: Elizabeth Ragan, History

3:20-3:35

Japanese Anime, Manga, and Video Games: Historical and Cultural Accuracy, and Influence Abroad

Brigid O'Connor

Faculty Mentor: Michael McCarty, History

3:40-3:55

Policies of the Tudor Court: The Change and Development of Policies Under Henry VII and Henry VIII from 1500-1532

Jarrett Walton

Faculty Mentor: Kristen Walton, History

4:00-4:15

Neanderthal Cookery: An Investigation into the Diet of our Genetic Cousins

Alexander True

Faculty Mentor: Elizabeth Ragan, History

■ **Third Oral Session**

4:30 p.m. - 5:50 p.m.

A3 Environmental Studies

Moderator: Eugene Williams

4:30-4:45

Environmental Racism in the Media: An Analysis of how Environmental Racism in Flint, Michigan is Portrayed by the Wall Street Journal and the New York Times

Cailey Tebow

Faculty Mentor: Michael Lewis, Environmental Studies

4:50-5:05

Ecotourism in Costa Rica: Disassociations and Remediations

Lily Christiana

Faculty Mentor: Michael Lewis, Environmental Studies

5:10-5:25

Environmental Advocacy in a Multiplying World: Escaping the Racist History of Population Sustainability

Jordan Kushto

Faculty Mentor: Michael Lewis, Environmental Studies

5:30-5:45

The Future of the Healthy Air Act

Sarah Levy

Faculty Mentor: Michael Lewis, Environmental Studies

B3 Philosophy II and Psychology

Moderator: Mark Walter

4:30-4:45 **Beyond Our Limit: Working Towards Defining Health to Draw the Line Between Genetic Treatment and Enhancement**
Haley Taylor
Faculty Mentor: Grace Clement, Philosophy

4:50-5:05 **Beliefs About Social Issues**
Amanda Niederland, Jaedyn Messer, Aniah Gopaul, Summer Akinrodoye
Faculty Mentor: Rachel Steele, Psychology

5:10-5:25 **LGBTQ+ Students' Perceptions of Intersectional Spaces at a PWI**
Michaela Harrigan, Ryan Devine
Faculty Mentors: Michele Schlehofer, Psychology; Diane Illig, Sociology

5:30-5:45 **What Decisions to Make?: Developing a Qualitative Study Investigating the Impact of COVID-19 on Mental Health Professionals and Their Clinical Practice**
Joanna Mason, Amanda Niederland, Ryan Devine, Emily Bovard
Faculty Mentor: Yuki Okubo, Psychology

C3 Information Science, Languages, and Physics *Moderator: Kurt Ludwick*

4:30-4:45 **Arduino Sitting Timer**
Rachel Evans, Spencer Blade
Faculty Mentor: Gene Hahn, Information and Decision Sciences

4:50-5:05 **Strategic Uses of Media to Transform the Status Quo in Totalitarian Contexts**
Sarah (Bees) Beesley
Faculty Mentor: Ricardo Vazquez-Diaz, Modern Languages

5:10-5:25 **Physics of the Theremin**
Julia King
Faculty Mentor: Matthew Bailey, Physics

5:30-5:45 **Electrochemical Deposition by Means of 3D Printing**
Zachary Koehler
Faculty Mentors: Joseph Howard, Physics; Gail Welsh, Physics

D3 History II and Political Science *Moderator: Angela Freeman*

4:30-4:45 **How the Townshend Acts Fueled the Black Market Glass Industry**
Hettie Rizzo Gordon
Faculty Mentor: Kristen Walton, History

4:50-5:05 **Going Zero Waste at the Maryland Folk Festival**
Jenna Feinauer
Faculty Mentor: Sarah Surak, Political Science

5:10-5:25 **Local Grassroots Activism and the Impact on Low Population Communities**
Katrina Hibdon

Faculty Mentor: Michelle Fletcher, Political Science

5:30-5:45

Eliminating Cultural Miscommunication: Strategies for an Equitable Elementary Classroom Environment

Amy Kessler

Faculty Mentor: Jeni Davis, Early and Elementary Education

**II. Welcome with Opening Remarks 6:00 p.m. - 6:30 p.m.
Guerrieri Academic Commons, 4th Floor Assembly Hall**

Welcoming and opening remarks from Dr. Sherry Maykrantz (co-chair of SUSRC), Dr. Carolyn Ringer Lepre (President), Dr. Karen Olmstead (Provost and Vice President of Academic Affairs), and Dr. Clifton Griffin (Dean of Graduate Studies & Research). Winners of the SUSRC Poster Design and Outstanding Research Mentor Award will be announced.

**III. Poster Presentation Session 6:30 p.m. - 7:30 p.m
Guerrieri Academic Commons, 4th Floor Assembly Hall**

Information Table Volunteer

Martin Hunter, Office of the Registrar

Poster Room Set-up Volunteers

Kwonchan Jeon, Public Health

Junyi Tu, Computer Science

Poster Presentations

1. Conformity to Masculine Norms at Salisbury University

Kalyn Ciriaco

Faculty Mentor: Diane Illig, Sociology

2. The Role of Demographics on Perceptions of Stigma and Mental Health Treatment Seeking Among College Students

Emily Devereux, Sophia Darling, Wendy Macer, Hannah Nolan, Ramsey Richey

Faculty Mentor: Rachel Buchanan, Social Work

3. The Impact of Student Major and Exposure to Mental Health-Based Curriculum on the Mental Health Literacy of College Students

Sophia Darling

Faculty Mentor: Rachel Buchanan, Social Work

4. Does Being Neighborly Impact the Social Fabric of a Community?; Probing the Relationship Between Social Capital and Health Outcomes

Jamie Kost

Faculty Mentor: Sherry Maykrantz, Public Health

5. Sexual Identity, Victimization Experience and Acknowledgment Predicting College Women's Rape Empathy
Grace DePanise
Faculty Mentor: Suzanne Osman, Psychology

6. Dental Anxiety: Tactile and Auditory Coping Mechanisms
Amanda Beahm
Faculty Mentor: Echo Leaver, Psychology

7. Is COVID-19 Causing a Shift in Socioemotional Goals in Older Adults?
Sierra Payne, Jelani Gayle
Faculty Mentor: Echo Leaver, Psychology

8. Gaming, Streaming and Mortality Salience During the Covid-19 Lockdown
Adara Turek, Katherine Sweeney
Faculty Mentors: Meredith Patterson, Psychology and Lance Garmon, Psychology

9. The Impact of In-Person vs Online Learning Environments on Children's Memory
Victoria Makuchal, Nicolette Giglio, Shay Grieser, Asia Carroll
Faculty Mentor: Rhyannon Bemis, Psychology

10. Relation Between Percent Female Sample Composition and Learning Outcome Effect Size in Psychology
Jillian Savageau, Harleigh Anderson, Sierra Payne, Lindsay Ray, Katie Carter, Anna Saghirian, George Luzier
Faculty Mentor: Thomas Tomcho, Psychology

11. Weathering the Storm: An Ecological View of Personal Resilience and Climate Change
Walter Rodriguez
Faculty Mentor: Karl Maier, Psychology

12. The Influence of Values, Regulatory Focus and Conscientiousness on Academic Performance
Bethany Stallings
Faculty Mentor: Kyoung Rae Jung, Psychology

13. Salisbury University Waste Audit: Digging into How We Waste
Annika Geitner
Faculty Mentor: Sarah Surak, Political Science

14. The Effects of Waste Incineration on Human Health and Exercise in the Face of Environmental Injustice
Karli Chancey
Faculty Mentor: Sarah Surak, Political Science

15. Analyzing Equivalent Treatments from Linear Accelerators and Gamma Knives
Matthew Wilson
Faculty Mentor: Asif Shakur, Physics

16. Blind Source Separation of Eclipsing Binaries
Robert Davis, Blaine Mason

Faculty Mentors: Nicholas Troup, Physics and Kyle Teller, Mathematics

17. Antibiotic Resistance: The Healthcare Worker's Silent Challenger

Cassidy Birch

Faculty Mentor: Kaynabess Freda, Nursing

18. Haitian Mothers are Dying at Alarming Rates

Olivia Bugg

Faculty Mentor: Nicole Hall, Nursing

19. Visualization of Sound: Converting Sound Data into Geometric Shapes

Luke Zolenski, Kyle Tranfaglia, Timmy McKirgan

Faculty Mentor: Donald Spickler, Mathematics

20. Surface Detection with IMU Sensors

Bradley Bogaczyk, Matthew Funk

Faculty Mentor: Kyle Teller, Mathematics

21. The Combinatorics of a Family of Odd Symplectic Partial Flag Manifolds

Connor Bean, Bradley Cruikshank

Faculty Mentor: Ryan Shifler, Mathematics

22. Accessible Public Restroom in Downtown Salisbury

Elizabeth Wash, Hayden Davis, River Myer

Faculty Mentor: Ryan Weaver, Interdisciplinary Studies

23. Bioremediation of Urban Runoff at BISM

Emma Tarquinio, Christopher Machalek

Faculty Mentor: Ryan Weaver, Interdisciplinary Studies

24. Reflections: A Study of Women in Catholicism

Maria Pacheco Valbuena

Faculty Mentor: Catherine Shufelt, Interdisciplinary Studies

25. Arduino INFO 333 Creative Presentation

Patrick Sutch, Scott Leimbach

Faculty Mentor: Gene Hahn, Information and Decision Sciences

26. Product Presentation

Austin Manwiller

Faculty Mentor: Gene Hahn, Information and Decision Sciences

27. Nursing Homes during COVID-19: How Better Working Conditions for Staff can Improve the Well-Being of Residents

Daniella Weinstein

Faculty Mentor: Viktoria Basham, Honors

28. Domestic Violence During the Height of the Covid-19 Pandemic

Anna Miller

Faculty Mentor: Lauren Hill, Honors

29. Geologic Investigation of Wetland Conditions, Southwest Exterior of Devilbiss Hall

Brad Carr, Grayson Smith

Faculty Mentor: Thomas Cawthern, Geography and Geosciences

30. What are the Pros and Cons of Artificial Intelligence?

Karishma Kaushal

Faculty Mentor: Catherine Jackson, Fulton School of Liberal Arts

31. How Information Technology (IT) has Helped People Communicate During the COVID-19 Pandemic and Its Long-Lasting Effects

Nicholas Hind

Faculty Mentor: Catherine Jackson, Fulton School of Liberal Arts

32. Acute Central Stiffness and Muscle Morphological Responses Following Blood Flow Restricted Resistance Exercise with Autoregulated and Non-Autoregulated Pressure Application

Sean Roesener

Faculty Mentor: Tim Werner, Exercise Science

33. How Deep is Turtle Love? Breeding Pond Depths of Endangered Spotted Turtles (*Clemmys guttata*)

Rebecca Pritt, Laila Fares, Carter Burdeshaw

Faculty Mentors: Tami Ransom, Environmental Studies and Eric Liebgold, Biological Sciences

34. Ecotourism in the Greek Islands: How to Become Ideal Global Citizens

Brian Dill

Faculty Mentor: Michael Lewis, Environmental Studies

35. Leave Only Footprints: Post-Pandemic Foot Traffic in the Outdoors

Alexander Morgan

Faculty Mentor: Diana Wagner, Education Leadership

36. Climate Change Catastrophe: Mitigation Strategies for National Parks

Ryan Liberto

Faculty Mentor: Diana Wagner, Education Leadership

37. Hard Headed: Helmet Safety and Recreational Safety

Ioan Socaciu

Faculty Mentor: Diana Wagner, Education Leadership

38. No-Fly Zones: The Economic and Environmental Impacts of Shifting Waterfowl Migration Populations

Wyatt Cox

Faculty Mentor: Diana Wagner, Education Leadership

39. But We Meant Well: Beach Replenishment, Shoreline Safety, and Injuries

Miller Gladding

Faculty Mentor: Diana Wagner, Education Leadership

40. Nature's Rx: Exploring the Wellness Benefits of Outdoor Engagement

Spencer Cormier

Faculty Mentor: Diana Wagner, Education Leadership

41. Mind the Phone: Social Media, Youth, and Outdoor Engagement

Joseph Williams

Faculty Mentor: Diana Wagner, Education Leadership

42. One for The Road? Alcohol and Drug Use in Watersports

Ryan Valente

Faculty Mentor: Diana Wagner, Education Leadership

43. The Martyr Economy: An Exploration of Hunting and Conservation

Jared Koenig

Faculty Mentor: Diana Wagner, Education Leadership

44. How Social Media Can Impact Self Image

Hailey Deares

Faculty Mentor: Chrys Egan, Department of Communication

45. Clothing Closet

Victoria Koslosky

Faculty Mentor: Brian Polkinghorn, Conflict Analysis and Dispute Resolution

46. National Ranking of Campus Clean and Sustainable Energy

Peyton Missimer

Faculty Mentor: Brian Polkinghorn, Conflict Analysis and Dispute Resolution

47. Teaching Diversity

Stephon Folk

Faculty Mentor: Brian Polkinghorn, Conflict Analysis and Dispute Resolution

48. The Intersectionality of Environmental Conflict and Disability in Maryland, Other States, and Abroad

Jacob Goodman

Faculty Mentor: Brittany Foutz, Conflict Analysis and Dispute Resolution

49. Heavy Tailed Independent Component Analysis in Python

John Schmidt

Faculty Mentor: Junyi Tu, Computer Science

50. Templateless PCR and Reverse-Transcriptase PCR to Test for the Common Flu Virus

Zachary Cohen

Faculty Mentor: Alison Dewald, Chemistry

51. Assessing Enone Reductase Activity of a Flavin Enzyme Using Gas Chromatography

Isabelle Herlinger

Faculty Mentor: Alison Dewald, Chemistry

52. The Multi-Step Synthesis of Rofcoxib, Imercoxib, and Zolimidine for the Organic Laboratory

Alexis Borczuch

Faculty Mentor: Jose Juncosa, Chemistry

53. SSRIs as a Frontline Treatment for Depression

Sarah Bianca

Faculty Mentor: Alison Dewald, Chemistry

54. Bye Bye Blepharospasms

Olivia Ingrao

Faculty Mentor: Joshua Sokoloski, Chemistry

55. Determination of Trace Metal Concentration in Sediment Collected from the Wicomico and Nanticoke Rivers

Samantha Peters

Faculty Mentor: Katherine Miller, Chemistry

56. Nassawango Creek Preserve Bryophyte Diversity Study: Liverworts and Their Identification

Joshua Fletcher

Faculty Mentor: Richard Wilkens, Biological Sciences

57. Diversity of the Unloved: Survey of Fungal Diversity in the Nassawango Creek Preserve

Shawn Rosengren

Faculty Mentor: Richard Wilkens, Biological Sciences

58. Age and Growth of Blue Catfish (*Ictalurus furcatus*) in the Nanticoke River, MD, Determined Through a Novel Otolith Processing Method

Kendall Weingard

Faculty Mentor: Noah Bressman, Biological Sciences

59. Terrestrial Friction-Reducing Properties of Mucus and Scale Anisotropy in Northern Snakehead (*Channa argus*)

Francis LopezChilel

Faculty Mentor: Noah Bressman, Biological Sciences

60. UV Reflectance and Fluorescence in Flying Squirrels for Mate Choice

Meghan Reed

Faculty Mentor: Angela Freeman, Biological Sciences

61. Examining Septic Tank Pollution in Eastern Shore Waterways Through Evaluation of Optical Brighteners

Connor Morningred

Faculty Mentor: Jennifer Nyland, Biological Sciences

62. Human Microbial Indicators in Septic Soil

Tylar Angle, Eliza Herd, Emilie Marcinko, Christopher Machalek

Faculty Mentor: Elizabeth Emmert, Biological Sciences

63. Microbial Communities in the Upper Tributaries of the Chesapeake Bay

Aerin Rost-Nasshan

Faculty Mentor: Jennifer Nyland, Biological Sciences

64. A Proposal Study of Oxytocin Effects on Probabilistic Reversal Learning in Southern Flying Squirrels

Katie Ekholm

Faculty Mentor: Angela Freeman, Biological Sciences

65. What The Pluck?: How Prey Feathers Lead to an Understanding of Red and Gray Eastern Screech Owl (*Megascops asio*) Diets

Lillian Fooks, Shannon Whalen, Joseph McNally

Faculty Mentors: Eric Liebgold, Biological Sciences and Tami Ransom, Environmental Studies

66. Hoo's Cold: To What Degree do Eastern Screech Owls (*Megascops asio*) Roost in Boxes on Winter Days?

Alice Pritchard, Aniah Gopaul, Melissa Delacruz, Ryan Gambrills

Faculty Mentors: Eric Liebgold, Biological Sciences and Tami Ransom, Environmental Studies

67. An Analysis of the Anatomy & Physiology Human Skeletal Teaching Collection at SU

Maya Hooper, Nadiia Petrova, Hana Tamre, Sophie Nagy, Samantha Tipton

Faculty Mentor: Susanne Daly, Biological Sciences

68. Did Phospholipids Evolve to Stabilize Fatty Acid Membranes of Protocells?

Emily Hopkins, Sydney Shumaker, Michael Calderola, Spencer Citro, Ansumane Diane, Rojan Karmel, Michelle Sierra

Faculty Mentor: Eugene Williams, Biological Sciences

69. Water Assessment of the Nanticoke, Pocomoke, and Wicomico Rivers; Comparing Water Quality to Land Use

James Kunkel

Faculty Mentor: Jennifer Nyland, Biological Sciences

70. Examination of Snake Diseases in Wild and Captive Snakes (Serpentes: Colubridae and Viperidae)

Julianna Morano

Faculty Mentor: Dana Price, Biological Sciences

71. Microscopic Techniques Used to Identify Peat Mosses (*Sphagnum* ssp.) of Delmarva for the Nassawango Creek Preserve Diversity Analysis

Kailey Jarboe

Faculty Mentor: Richard Wilkens, Biological Sciences

72. Quantification of Oxytocin Receptor in Phyllostomidae Bats

Joanna Diaz-Ocana

Faculty Mentor: Angela Freeman, Biological Sciences

IV. Outstanding Research Mentor Award

The Salisbury University Student Research Conference Committee is pleased to announce the Outstanding Research Mentor Award at the poster session to be held from 6:00-7:30pm in Academic Commons (4th Floor Assembly Hall). This award celebrates faculty mentors who have proven excellent supervisors of student research or creative work.

The 2023 Outstanding Research Mentor Award Nominees are:

Dr. Angela Freeman, Biological Sciences

*Dr. Michael Moeder, Communications
Dr. Joshua Sokoloski, Chemistry
Dr. Ricardo Vazquez-Diaz, Modern Languages
Dr. Diana Wagner, Education Leadership
Dr. Mark Walter, Psychology
Dr. Kristen Walton, History
Dr. Debra Webster, Nursing*

V. Outstanding Student Research

Salisbury University's commitment to student research is evident in both the number and quality of the presentations at our annual student research conference. However, many of our students are being recognized for their work in off-campus settings. The following are highlights from Salisbury University students during the last year.

Student Publications:

Faith Thompson published "Try and Fight that white Supremacy:" Tutors on Antiracist Praxis" in Publication on Another Word, a University of Wisconsin at Madison Blog

Student Publications in *Laridae*:

Regan Benton published "Getting Ready to Learn: The Role of Agitation Level on Children's Recall of Learning Events" in *Laridae*, 4th Edition, Fall 2022

Georgia Foster published "The Adaptation of the "American Family": How Jeff Franklin's Full House Normalizes Unconventional Family Situations" in *Laridae*, 4th Edition, Fall 2022

Margaret Giggey published "Identifying the Genetic Mutation in a Female Presenting with Mild-to-Moderate Hearing Loss" in *Laridae*, 4th Edition, Fall 2022

Sarah Hancock published "Radium Girl" in *Laridae*, 4th Edition, Fall 2022

Daisy Holder published "Instagram Reels for Small Business: How to Hook, Bait, and Reel in Customers" in *Laridae*, 4th Edition, Fall 2022

Jada Jackson published "General and Epigenetic Effects of Selected Nutrients on Fetal and Early Childhood Cognitive Development" in *Laridae*, 4th Edition, Fall 2022

Joshua Killen published "Beacon" in *Laridae*, 4th Edition, Fall 2022

William "Max" Kichline published "What's the Point?: A Comparative Analysis of Prehistoric Projectile Points from Three Archaeological Sites in Maryland" in *Laridae*, 4th Edition, Fall 2022

Jamie Larson published "New Zealand Biodiversity: How Policy Can Solve Biodiversity Loss and Restore Indigenous Cultural Practices" in *Laridae*, 4th Edition, Fall 2022

Dominick M. Lepke published "Tactics to Prevent the Use of Blockchain Technology as a Facilitator for Laundering Money" in *Laridae*, 4th Edition, Fall 2022

D'Shon Jae McCarthy published "Gemini Graveyard" in *Laridae*, 4th Edition, Fall 2022

Lindsay Remetz published "How Race and Mental Health Diagnoses Influence Treatment in American Correctional and Rehabilitative Institutions" in *Laridae*, 4th Edition, Fall 2022

Jane Simoncic published "Students Failing School or Schools Failing Students: Critical Thinking Education Deficits in Public American Secondary Schools" in *Laridae*, 4th Edition, Fall 2022

Piumy Rajapaksha published "Embracing the Rich Culture of Sri Lanka" in *Laridae*, 4th Edition, Fall 2022

Kyle Tranfaglia published "Capitalism: The Synthesis of Economic Growth and Climate Change" in *Laridae*, 4th Edition, Fall 2022

Drew Wagner and Aerin Rost-Nasshan published "The COVID Era of mRNA Vaccines" in *Laridae*, 4th Edition, Fall 2022

Elizabeth A. Wash published "An Investigation into Idiopathic Thrombocytopenic Purpura (ITP)" in *Laridae*, 4th Edition, Fall 2022

Student Presentations at the National Conference on Undergraduate Research

Kieran Bethke presented "Papal Power vs. Secular Power: Renewed Interest in the Rule of Law in the Long Twelfth Century" at the National Conference on Undergraduate Research, April 2023

Dominick Lepke presented "Tactics to Prevent the Use of Blockchain Technology as a Facilitator for Laundering Money" at the National Conference on Undergraduate Research, April 2023

Francis Lopez Chilel presented "Terrestrial friction-reducing properties of mucus and scale anisotropy in northern snakehead (*Channa argus*)" at the National Conference on Undergraduate Research, April 2023

River Myer presented "The 1980s and the Cold War: Understanding the Climax of the Cold War Through the Lens of Historical Narratives" at the National Conference on Undergraduate Research, April 2023

Carly Nascimbeni presented "Do Prisoners Need Ethics or Does Ethics Need Prisoners?: Ethics Education in Prison Combats Epistemic Injustice" at the National Conference on Undergraduate Research, April 2023

Jordan Parker presented "Ridiculously Simple Idea" at the National Conference on Undergraduate Research, April 2023

Zobia Rani and Ann Thomas presented "Finding Better Solutions for Available MRI Contrast Agents - Fe(II) Complexes Exhibiting Temperature Dependent Spin Transition" at the National Conference on Undergraduate Research, April 2023

Jarret Walton presented "Policies at the Tudor Court: The Change and Development in policy under Henry VII and Henry VIII from 1500-1540" at the National Conference on Undergraduate Research, April 2023

Luke Zolenski presented "Creating... Creating..." at the National Conference on Undergraduate Research, April 2023

Student Presentations at Posters on the Bay:

Madyson Amo and Abigail Walsh presented “Volunteerism at the Newton Street Community Center” at the Sixth Annual Posters on the Bay, February 2023

Emmanuela Angu, Stefani Lanahan, Danielle Olenchak, and Min Thway Khant presented “Targeting cancer-associated proteins for tumor imaging” at the Sixth Annual Posters on the Bay, February 2023

Connor Bean and Bradley Cruikshank presented “The Combinatorics Of A Small Family Of Odd Symplectic Partial Flag Manifolds” at the Sixth Annual Posters on the Bay, February 2023

Lydia Bradshaw presented “Does Visitor Behavior Effect Animal Behavior within Zoos?” at the Sixth Annual Posters on the Bay, February 2023

Dre' von Clark, Amanda Niederland, and Jaedyn Messer presented “The Continuing Efforts to Redress Government Discrimination Toward the LGBTQ+ Community: Imprint of the Lavender Scare” at the Sixth Annual Posters on the Bay, February 2023

Tiah Coates presented “Does Maryland’s local government funding for mental health service reflect systemic bias against the population?” at the Sixth Annual Posters on the Bay, February 2023

Ryan Devine presented “Aiding the Youth Homelessness Crisis Through Community Action” at the Sixth Annual Posters on the Bay, February 2023

Jenna Feinauer presented “Zero Waste at the Maryland Folk Festival” at the Sixth Annual Posters on the Bay, February 2023

Jake M. Goodman presented “The Intersectionality of Environmental Conflict and Disability in Maryland, Other States, and Abroad” at the Sixth Annual Posters on the Bay, February 2023

Eliza Hurd presented “Analyzing the Efficacy of Public School Mental Health Systems” at the Sixth Annual Posters on the Bay, February 2023

Maria Kaschak presented “New Insights on the Fecundity of the Blue Catfish, Ictalurus furcatus, Brings About a New Understanding of this Invasive Species” at the Sixth Annual Posters on the Bay, February 2023

Francis Lopez Chilel presented “Effects of Northern Snakehead (Channa argus) mucus and scales on terrestrial friction” at the Sixth Annual Posters on the Bay, February 2023

Kellan McAleer presented “The Lack of Financial Literacy of Americans and the impact on the US Economy” at the Sixth Annual Posters on the Bay, February 2023

Carly Nascimbeni presented “Ethics Education Combats Epistemic Injustice in Prison” at the Sixth Annual Posters on the Bay, February 2023

Samantha Peters presented “Trace Metal Concentration of Sediment in Two Chesapeake Bay Tributaries, Wicomico and Nanticoke Rivers” at the Sixth Annual Posters on the Bay, February 2023

Evan Polkinghorn and Andrew Wilson presented “A Comprehensive Public Transportation Survey of the Delmarva Peninsula” at the Sixth Annual Posters on the Bay, February 2023

Rebecca Pritt presented “Exodus: Sex-specific movements of endangered Spotted Turtles (*Clemmys guttata*) leaving breeding ponds and their terrestrial activity” at the Sixth Annual Posters on the Bay, February 2023

Zobia Rani and Ann Thomas presented “Using Chemistry to Find Better Solutions for Available MRI Contrast Agents” at the Sixth Annual Posters on the Bay, February 2023

Sean Roesener presented “Rhabdomyolysis in the NCAA” at the Sixth Annual Posters on the Bay, February 2023

Luke Zolenski presented “Creating... Creating...” at the Sixth Annual Posters on the Bay, February 2023

Student Presentations at the Summer Student Research Showcase:

Sebastian Acosta presented “Investigations into 3D Image Capture and Augmented Reality” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Usra Alarki presented “Detection of Emotional Changes with Harmonic Progression in Music” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Emmanuela Angu, Stefani Lanahan, and Ana Valdes presented “Targeting Cancer-Associated Proteins for Tumor Imaging” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Connor Bean and Bradley Cruikshank presented “The Combinatorics of a Small Family of Odd Symplectic Partial Flag Manifolds” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Philip Becnel presented “Scarab Biodiversity on an Urban Campus” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Emily Bovard presented “Learning How to Conduct Qualitative Research in Psychology” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Lydia Bradshaw presented “Does Visitor Behavior Effect Animal Behavior Within Zoos?” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Lily Christiana presented “Art and Love: The Infinities of Tullia D’Aragona” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Tiah Coates presented “Mental Health Care Services in Local Governments in Maryland” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Joshua Comfort presented “Image Processing and Computer Vision Algorithms for Sustainable Shellfish Farming” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Zach Crum presented “Diet Composition of Invasive Blue Catfish in the Nanticoke River, USA” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Joanna Diaz-Ocana and Katie Ekholm presented “Oxytocin Effects on Co-Nesting in Southern Flying Squirrels” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Andrew Downey presented “Synthesis of Functionally Diverse and Highly Substituted Oxazoles and Azlactones” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Tieryn Gingerish Heishman presented “Barriers to Mental Health Care among Emerging Adults” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Emily Hitchcock presented “Image Processing and Machine Learning for Tumor Detection Using MRI Images” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Daisy Holder presented “Instagram Reels for Small Businesses: How to Hook, Bait, and Reel in Customers” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Liam McGinnes presented “The Patriarchal Institution of Lies; An Analysis of Bell Hooks’ All About Love” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Catherine Milligan, Amen Shahzad, and Adara Turek presented “Psychophysiology as a Neurocognitive Assessment Tool” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Connor Morningred presented “Investigating Septic Tank Pollution in Eastern Shore Waterways” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Kyle Musselman presented “Influence of the Symbiotic State of the Aiptasia Sea Anemone on the Feeding Preferences of the Nudibranch Berghia” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Carly Nascimbeni presented “Ethics for Everyone at Eastern Correctional Institution” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Amanda Niederland presented “Immersing Myself in Qualitative Research and Racial Knowledge” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Samuel Pincus presented “Holding Tank and Recirculation System Construction for Blue Crab (*Callinectes sapidus*) Stable Isotope Research” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Rebecca Pritt presented “Exodus: Sex-specific Movements of Endangered Spotted Turtles (*Clemmys guttata*) Leaving Breeding Ponds and their Terrestrial Activity” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Melissa Reid presented “African American Local Historical Storytelling” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Kasey Schlack presented “Examining Chronic and Infectious Disease Health Policy: A Literature Review” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Luke Scott presented “Performance Modeling of Reliable Data Transfer in Computer Networking” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Ella Seetoo-Ronk presented “Analyzing the Roles of Abuse and Neglect within Love: Insights from Bell Hooks” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Jane Simoncic presented “Students Failing School or Schools Failing Students: Critical Thinking Education Deficits in Public American Secondary Schools” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Kylie Sommer presented ““Deconstruction is Love”: Jacques Derrida’s Impact on the Spiritual Deconstruction Movement” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Kellee Toler presented “Sexual Dimorphism of Song Control, Learning, and Social Nuclei Regions in Songbirds” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Matt Wilson presented “Using a Quadtree Data Structure to Facilitate Analysis of Clusters Formed Through Diffusion Limited Aggregation” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Alison Wright presented “Individual Practitioners in the United States in the Field of ADR - South Carolina and Kansas” at the Annual Salisbury University Summer Student Research Showcase, September 2022

Student Fellowships:

Samantha Bartell received the Fulbright English Teaching Assistantship to Moldova

Nanayaa Boaten is a semifinalist for the Fulbright English Teaching Assistantship to the Czech Republic

Gabriel Dunn is a semifinalist for the Fulbright English Teaching Assistantship to Indonesia

Shayna Grossberg was an alternate for the Fulbright English Teaching Assistantship to Azerbaijan

Sarah Hancock is a semifinalist for the Fulbright Study to Iceland

Allison Latham is a semifinalist for the Fulbright English Teaching Assistantship to Spain

Adebola Okusolubo is a semifinalist for the Fulbright Research to Kenya

Susannah Randall is a semifinalist for the Fulbright English Teaching Assistantship to Montenegro

Hira Shahbaz is a semifinalist for the Fulbright English Teaching Assistantship to Kazakhstan

Trey Skinner is a semifinalist for the Fulbright Study to Germany

Ann Thomas is a semifinalist for the Fulbright English Teaching Assistantship to Kyrgyzstan

Danitza Verano Roman is a semifinalist for the Fulbright English Teaching Assistantship to Benin

Nathaniel Sansom received the Hertog Summer Fellowship

Student Presentations and Performances:

Tylor Bahen presented “Sarmiento, the traveler. StoryMap as a tool for teaching Latin American literature” at the 2023 Middle Atlantic Council of Latin American Studies (MACLAS) Conference “The Afro Americas A Hemispheric Conversation” in Salisbury, March 2023

Tylor Bahen presented “Sarmiento, the traveler. StoryMap as a tool for teaching Latin American literature” at the Latinx and Latin American Symposium in Salisbury University, 2022

Gerard Boyd presented “Similar metabolic responses during resistance exercise despite significant differences in power: effects of matched work” at the National American College of Sports Medicine (ACSM) research conference, June 2022

Zach Crum presented “Feeding and Trophic Ecology of Invasive Blue Catfish in the Nanticoke River, MD/DE” at the Presented at the Southern Division American Fisheries Society meeting in Norfolk, VA, February 2023.

Brianna Domenick presented “The impact of stigma within academic majors and the effect on mental health literacy” at the 40th annual conference for the Association of Baccalaureate Social Work Program Directors (BPD) in Birmingham Alabama, March 2023

Cecilia Gabbidon presented Autobiografía by Juan Francisco Manzano. A Cuban slave's testimony against double consciousness” at the 2023 Middle Atlantic Council of Latin American Studies (MACLAS) Conference “The Afro Americas A Hemispheric Conversation” in Salisbury, March 2023

Cecilia Gabbidon presented Autobiografía by Juan Francisco Manzano. A Cuban slave's testimony against double consciousness” at the Latinx and Latin American Symposium in Salisbury University, 2022

Tieryn Gingerich Heishman presented “Sexual assault experience and tactics predicting rape victim empathy” at the annual meeting of the Society for the Scientific Study of Sexuality, November 2022

Tieryn Gingerich Heishman presented “Sexual assault perpetration and tactics predicting college men's empathy with a rapist” at the annual meeting of the Eastern Psychological Association, March 2023

Hannah Nolan presented “The impact of stigma within academic majors and the effect on mental health literacy” at the 40th annual conference for the Association of Baccalaureate Social Work Program Directors (BPD) in Birmingham Alabama, March 2023

Ethan Robbins presented “Energy cost from squats with matched work but varying contraction intensities and loads” at the National American College of Sports Medicine (ACSM) research conference, June 2022

Faith Thompson presented “‘If You Want to Play the Game and be Successful’: Complications and Contradictions in the Antiracist Language Practices of Writing Center Tutors at the annual Two Year College Association Conference, February 2023

Vicky Vazquez presented “Voice and language for the reconquest in Me llamo Rigoberta Menchu” at the 2023 Middle Atlantic Council of Latin American Studies (MACLAS) Conference “The Afro Americas A Hemispheric Conversation” in Salisbury, March 2023

Vicky Vazquez presented “Voice and language for the reconquest in Me llamo Rigoberta Menchu” at the Latinx and Latin American Symposium in Salisbury University, 2022

Kendall Weingard presented “Blue Catfish Ecology at Salisbury University” at the 2nd Upper Shore Youth Environmental Action Summit

Jun Zhang presented “Exploring the influence and contribution of different factors in adult second language learning through life managers of adult immigrants” at the SLA Graduate Student Symposium at the University of Minnesota, March 31-April 1 2023.

Student Awards, Honors, and Other Activities of Distinction:

Francis Lopez Chilel was awarded the Henson Undergraduate Research Award

Emily Madison was elected Vice President of Graduate Affairs for the University Systems of Maryland Student Council Executive Board Member

Morgan Mathey was inducted into the National Leadership Honor Society, Omicron Delta Kappa (ODK)

Morgan Mathey was inducted into the Delta Theta chapter of Lambda Pi Eta (LPH), Salisbury University's Communication Honor Society

VI. Acknowledgements

▪ 2023 SUSRC Graphics & Program Cover:

- Carleigh Stokes (Winner 2023 SUSRC Poster Contest)
 - Special Thanks
 - Allison Seth, Assistant Professor, Art Department
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 - Caitlyn Waters
 - Reagan Yungmann

▪ Office of Graduate Studies and Research:

Dr. Clifton Griffin, *Dean of Graduate Studies & Research*

Elizabeth Geiger, *Specialist Graduate Enrollment*

Vanessa Collins, *Research & Account Compliance Specialist*

Teri Herberger, *Director of Sponsored Research Programs*

Donna Knopf, *Executive Administrative Assistant*

Haleigh LaChance, *Contract & Grants Specialist*

Nichole Morton, *Contract & Grants Specialist*

Jessica Scott, *Graduate Program Manager*

Dr. Celine Carayon, *Graduate Council Chair*

▪ Office of Undergraduate Research and Creative Activities:

Rhyannon Bemis, *Director*

Alison Wright, *Graduate Assistant*

OURCA Website: <https://www.salisbury.edu/ourca>

2022-2023 Cohort of OURCA Undergraduate Research Fellows:

Allison Dincau, *Political Science and Theatre Performance*

Katelyn Hancock, *History- Secondary Education*

Connor Morningred, *Biology*

Adebola Okusolubo, *Biology Pre-Medicine Concentration*

Ella Seetoo-Ronk, *Philosophy and English*

Amber Whittaker, *Exercise Science – Premed Track*

▪ SU Student Research Conference Committee:

Rhyannon Bemis, *Psychology*

Moushumi Chakraborty, *Library*

Brian Hill, *Economics and Finance*

Sherry Maykrantz (co-chair), *Community Health*

Zac Townsend, *Exercise Science*

Tim Werner (co-chair), *Exercise Science*

Alison Wright, *OURCA GA*

▪ Administration Support:

Dr. Carolyn Ringer Lepre, *President*

Dr. Karen Olmstead, *Provost and Vice President of Academic Affairs*

Dr. Melissa Boog, *Associate Vice President of Academic Affairs*

Dr. Kara Raab, *Associate Vice President for Planning & Assessment*

Dr. Jessica Clark, *Assistant Provost for Faculty Success*

Ms. Tara Smith, *Director of Academic Affairs Administrative Operations*

Dr. Clifton Griffin, *Dean of Graduate Studies and Research*

Dr. Michael Scott, *Dean of the Richard A. Perdue School of Science and Technology*

Dr. Christy Weer, *Dean of the Franklin P. Perdue School of Business*

Dr. Maarten Pereboom, *Dean of the Charles R. and Martha N. Fulton School of Liberal Arts*

Dr. Kelly Fiala, *Dean of the College of Health and Human Services*

Dr. Laurie Henry, *Dean of the Samuel W. and Marilyn C. Seidel School of Education*

Dr. Andrew Martino, *Dean of Honors College*

Dr. Beatriz Hardy, *Dean of Libraries and Instructional Resources*

▪ Technical Support:

Donna Knopf, Scott Garrison, Todd Smith

Thank you to all our presenters, mentors, volunteers, support folks, and committee members! See you at the 22nd Annual Salisbury University Student Research Conference in April 2024!!!

OURCA

Office of Undergraduate Research and Creative Activity



Where will undergraduate research take you?

OURCA offers you exciting undergraduate research experiences at every step of your college career.

From incoming freshmen to graduating seniors, OURCA supports SU students to:

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- Compliance (Human and Animal Research)
- Salisbury University Student Research Conference (SUSRC)
- National Conference on Undergraduate Research (NCUR)
- National Honors Conference (NHC)

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- Your submission must be approved by your faculty mentor.
- Insert protocol number if research contains human subjects (IRB) or animals (IACUC).



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