

OFFICE OF UNDERGRADUATE RESEARCH & CREATIVE ACTIVITY

# SUMMER STUDENT RESEARCH SHOWCASE

THURSDAY, AUGUST 29, 2024 | 3:30-5 P.M.

GUERRIERI ACADEMIC COMMONS, ASSEMBLY HALL

*Sponsored by the Office of Undergraduate Research and Creative Activity*

## PROGRAM

- 3:30-3:45 p.m.**      **Welcome and Opening Remarks**  
Dr. Clifton Griffin, *Dean of Graduate Studies and Research*  
Dr. Laurie Couch, *Provost and Senior Vice President of Academic Affairs*
- 3:45-5 p.m.**      **Poster Session**

# Summer Student Research Showcase

## POSTER PRESENTATIONS

1. *The Evolution of Literary Magazines and Creative Writing at Salisbury University*  
Josey Zeunges  
Faculty Mentor: Dr. Melissa Bugdal
2. *Reverse Mapping for Disposition: University Writing Center Workshops for First Year Seminar*  
Jeff Dean  
Faculty Mentor: Dr. Melissa Bugdal
3. *“You have to start somewhere”: Writing Center Tutors and Their Understandings of Linguistic Justice*  
Faith Thompson  
Faculty Mentor: Dr. Melissa Bugdal
4. *The Co-Design of Inquiry-Based Writing Professional Learning*  
Amy Palmer  
Faculty Mentor: Dr. Maida Finch
5. *Understanding the Multimodal Literacies of Faculty in Disciplinary Postsecondary Classrooms*  
Haley Cristea  
Faculty Mentor: Dr. Heather Porter
6. *Creating Spaces for Kindergarten Writers Through Collaborative Inquiry*  
Jennifer Spivey  
Faculty Mentor: Dr. Judith Franzak
7. *Exploring Reader Identities and Engagement: Adolescent Male Students in Reading Intervention and the Role of a Reading Specialist in Fostering*  
Gabrielle Remington  
Faculty Mentor: Dr. Koomi Kim
8. *CHHS College Climate and LGBTQ+ Student Population*  
Mx. Sage Simone  
Faculty Mentor: Dr. Becky Anthony
9. *Barriers to Implementing the Standards Based Curriculum in the Bono East Region of Ghana and its Impact on Equitable Education*  
Peter Jabal  
Faculty Mentor: Dr. James Fox
10. *Building Culturally Responsive Literacy Teachers:  
How Principals Can Use Inquiry Groups to Develop Teachers*  
Kirstin Gibson  
Faculty Mentors: Dr. Maida Finch, Dr. Heather Porter, and Dr. Jon Andes
11. *Focus on Learning Content: Teacher and Student Roles in Text-Based Discussion in Secondary Social Studies Classrooms*  
Jess McInerney  
Faculty Mentor: Dr. Maida Finch
12. *Practitioner Researchers’ Contributions in Literacy*  
Lauren Hatch Pokhrel  
Faculty Mentor: Dr. Maida Finch

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**13. *Literary Canon and Pedagogy in Higher Education***

Anna Randall  
Faculty Mentor: Dr. Isabel Quintana-Wulf

**14. *Descubriendo a Sor Juana: abriendo libros a la educación, la identidad y el poder de la mujer.***

Lucia G Fuentes Scott  
Faculty Mentor: Dr. Cristina Cammarano

**15. *Developing a Directorial Process***

Allison Dincau  
Faculty Mentor: Dr. Jamie McKittrick and Dr. Blake Harris

**16. *Moving Matters Mobile App Project***

Connor Sullivan  
Faculty Mentor: Dr. Victoria Venable-Edwards

**17. *Extending Restrictions on Conversion Therapy in Maryland: Exploring Legislative Options***

Lauren Kellam, Jim Kunz, and LJ Maysonet  
Faculty Mentor: Dr. Daniel Green

**18. *Assessment of the Physical Activity Environment in Rural Community Parks: An Audit of Maryland's Eastern Shore***

Ariene Ohimor  
Faculty Mentor: Dr. Zachary Townsend

**19. *Optimizing Pose Detection for Golf Swing Analysis***

Oscar Spiers  
Faculty Mentor: Dr. Yaping Jing

**20. *High-Accuracy Walking Surface Classification through Heel Strike Detection***

Mariamawit Yohannes  
Faculty Mentor: Dr. Shuangquan Wang

**21. *Earthships vs. Residential Construction: A Comparative Study of Building Materials, Costs, and Energy***

Luis Enrique Rangel-Mora  
Faculty Mentor: Dr. Gina Bloodworth

**22. *Identifying Water Usage Clients' Wants via LLMs***

Dustin O'Brien  
Faculty Mentor: Dr. Xiaohong (Sophie) Wang

**23. *Periodic Behavior in Finite Linear Cellular Automata***

Abigail Pierson  
Faculty Mentor: Dr. Michael Bardzell

**24. *Investigations of Fractal Dimensions in Group-Generated Cellular Automata***

Lilly Ngo  
Faculty Mentor: Dr. Michael Bardzell

**25. *Detection and Visualization of Abnormal Salinity Values in One-Dimensional Time-Series Data***

Vincent Pham  
Faculty Mentors: Dr. Shuangquan Wang and Dr. Xiaohong Wang

# Summer Student Research Showcase

**26. *Astrophotography: Bridging the Gap***

Justin Malloy and Susan Velasquez-Perez  
Faculty Mentor: Dr. Joseph Howard

**27. *Exploring the Potential of the Quantized Bitnet b1.58 Large Language Model for Edge Devices: Implications for Privacy, Climate Change, and Technology***

Spencer Presley  
Faculty Mentor: Dr. Junyi Tu

**28. *The Impact of the VasX Effector on Interbacterial Competition in the Symbiotic Bacterium *Vibrio fischeri****

Nikki Amarasinghe  
Faculty Mentor: Dr. Kirsten Guckes

**29. *Genetic and Cellular Characterization of Co-Isolated Bacterial Symbionts***

Hope Barber  
Faculty Mentor: Dr. Kirsten Guckes

**30. *How Soil Characteristics Affect Antibiotic Production***

Olivia Ingrao  
Faculty Mentor: Dr. Elizabeth Emmert

**31. *Comparing Embryonic Brain Development Between Specialized and Unspecialized Bird Species***

Reagan Angle  
Faculty Mentor: Dr. Jeremy Corfield

**32. *Beyond the Melody: Exploring the Correlation Between the Size of the Nucleus Taeniae and Social Behavior in Songbirds***

Sara Alessandrini  
Faculty Mentor: Dr. Jeremy Corfield

**33. *The Deception of House Wrens: How Cuteness Hides Destruction***

Malone Dampier and Jenna Luka  
Faculty Mentor: Dr. Jeremy Corfield

**34. *Birds in the City: How Green Spaces in Urbanized Areas Affect the Biodiversity of Local Birds***

Jessica Stevens  
Faculty Mentor: Dr. Xuan Chen

**35. *Nesting Towers for the Salisbury Zoo***

Kenny Fraker  
Faculty Mentor: Dr. Bill Wolff

**36. *Forensic Entomology: When One Story Ends, Another Begins***

Natasha Herlinger and Kate Riley  
Faculty Mentor: Dr. Dana Price

**37. *Effect of Urbanization on Eastern Shore Ant Populations in Salisbury, Maryland***

Isabella Garrison  
Faculty Mentor: Dr. Dana Price

**38. *Interactions Between Ants (Hymenoptera: Formicidae) and Plants on the Salisbury University Campus***

Maya Feick  
Faculty Mentor: Dr. Dana Price

# Summer Student Research Showcase

**39. *Visual Identification of Oysters with Machine Learning***

Joshua Essandoh, Michael Straus and Nikolai Vukov  
Faculty Mentors: Dr. Yuanwei Jin and Dr. Enyue Lu

**40. *Characterizing the Moribund State in Zebrafish Embryos***

Maia Burger  
Faculty Mentor: Dr. Jessica Clark

**41. *Diving in: Does hyperglycemia affect cartilage development in Danio rerio?***

Brianna Esker  
Faculty Mentor: Dr. Jessica Clark

**42. *A Comparison of the Mummichog Escape Response to Different Types of Predator Stimuli***

Alexis Dawson  
Faculty Mentor: Dr. Noah Bressman

**43. *The Sound of Attraction: Acoustic Decision-Making in Female Mate Choice***

Marissa Carey  
Faculty Mentors: Dr. Kimberly Hunter and Dr. Ryan Taylor

**44. *I Can See You, Can You See Me?; Male Vocal Sac Size and the Effect on Female Mate Choice***

Lauren Knapp  
Faculty Mentors: Dr. Kimberly Hunter and Dr. Ryan Taylor

**45. *The Tungara Frog's: Dry Land Decisiveness vs. Poolside Panic***

Korbin Reynolds  
Faculty Mentors: Dr. Ryan Taylor & Dr. Kimberly Hunter

**46. *Tungara Frog (Engystomops pustulosus) Movement Ecology: Male Tracking and Female Mate Choice***

Michael Caldarola  
Faculty Mentors: Dr. Ryan Taylor, Dr. Kimberly Hunter, & Dr. Andrea Presotto

**47. *Tungara Frog (Engystomops pustulosus) Behavior; Evaluating Predatory Responses in Different Environments***

Grant Zemanek  
Faculty Mentors: Dr. Ryan Taylor & Dr. Kimberly Hunter

**48. *Examining the Relationship between Human Activity, Sediment Size, and Sand Budget at Assateague Island National Seashore***

Rachel Keim  
Faculty Mentor: Dr. Thomas Cawthorn

**49. *Water Quality in the Chesapeake Bay Watershed***

Jasmine Bowie  
Faculty Mentor: Dr. Jennifer Nyland

**50. *Monitoring Salinity Variations in Assateague Island's Freshwater Ponds at the Spring and Neap Tides***

Charis Sophia Rose  
Faculty Mentor: Dr. Sarah Jones

**51. *Flying Squirrel Cognition***

Katie Ekholm and Kelly Mitzel  
Faculty Mentor: Dr. Angela Freeman

# Summer Student Research Showcase

**52. *Getting to the Point: Assessing Dietary Signal from Tooth Sharpness in the Postcanine Dentition of Primates***

Gabriela Maroto

Faculty Mentor: Dr. Susanne Daly

**53. *The Effect of the Crosslinker Length on the Swelling Ratio of Synthetic Hydrogels***

Mahrukh Rizwan

Faculty Mentor: Dr. Zulma Jimenez

**54. *The Effects of Restaurant-Like Conditions on DNA Aptamer Binding to the Gluten Protein***

Olivia Gaines

Faculty Mentor: Dr. Joshua Sokoloski

**55. *Developing RNA Thermometers and Fluorescence Spectroscopy for Temperature, pH, Urea, and Salt-Dependent Enzymatic Reactions in Plasmodium falciparum***

Andersen Herman

Faculty Mentor: Dr. Joshua Sokoloski

**56. *Associative Recognition in Aging***

Delaney Bartosz, Joyce Zhang, and Catherine Milligan

Faculty Mentors: Dr. Meredith Patterson and Dr. Echo Leaver

**57. *COVID-19 and Socioemotional Selectivity Theory: Do the Socioemotional Impacts of a Long-Term Pandemic Reflect Changes Typically Associated with Aging?***

Kavina McDonald

Faculty Mentor: Dr. Echo Leaver

**58. *Club Sports and Cognition***

Sydney Shannon and Emma Barthelmess

Faculty Mentor: Dr. Echo Leaver

**59. *Exploring Qualitative and Racial Research and Literature***

Emma Barthelmess

Faculty Mentor: Dr. Yuki Okubo

**60. *Delving into Qualitative Research: Exploring Racial Knowledge and Unmasking Inequities***

Alexis Davis

Faculty Mentor: Dr. Yuki Okubo

**61. *Taking a Microscopic Look into Racial Disparities and Qualitative Research***

Kaliyah Little

Faculty Mentor: Dr. Yuki Okubo