

Summer Student Research Showcase

**Thursday, September 11, 2025
3:30-5:00**

Guerrieri Academic Commons, Assembly Hall



Program

3:30-3:40 PM – Welcome and Opening Remarks

Dr. Carolyn Ringer Lepre, *President of Salisbury University*

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

3:40-5:00 PM – Poster Session

Poster Presentations

1. *The Effects of Antenatal Distance on Mate Preference in Southern Flying Squirrels*
Katie Ekholm
Faculty Mentor: Angela Freeman
2. *Influence of Sediments Size on Burial Performance of Little Skates (Leucoraja erinacea)*
Colin O'Donnell
Faculty Mentor: Noah Bressman
3. *Influence of Reef Size and Age on Sex Changing in Black Sea Bass (Centropomus striata) off the Coast of Ocean City, Maryland*
Owen Ashdown, Liam Hanley, Monty Hawkins
Faculty Mentor: Noah Bressman
4. *Furry Foodies- How Squirrels Take Advantage of Extra Food when Tree Density is Low*
Savannah Howe
Faculty Mentor: Angela Freeman
5. *A Conserved Retroviral gag ORF in Lagomorphs: Expression and Evolution of LERVG*
Mahrukh Rizwan, Nikini Amarasinghe
Faculty Mentor: Guney Boso
6. *Analysis of Mg²⁺ and Ca²⁺ Binding to Nucleic Acids and E.coli Cells*
Aida Nabila
Faculty Mentor: Joshua Sokoloski
7. *Oyster Detection Using YOLOv8*
Hamid El Karim, Logan Kelsch
Faculty Mentor: Enyue Lu
8. *RGB Imaging for Improved Object Detection and Counting Accuracy in Chick Hatcheries*
Anye-Nkwenti Forti
Faculty Mentor: Peter Wang
9. *Shellfish Contamination Mapping Initiative*
Danish Ahsan, Ali Ranjha, Jeyson Moussa
Faculty Mentors: Soeun You and Junyi Tu
10. *Behavioral Analysis of Financial Markets Using Markov Models, Genetic Algorithms, and Neural Networks*
Logan Kelsch
Faculty Mentor: Yaping Jing

11. *Thermal Imaging-Based Chick Detection and Counting for Hatcheries*
Brennen McCorison
Faculty Mentors: Peter Wang and Sophie Wang
12. *Mitigating Catastrophic Forgetting Using Improved Clustering-based Episodic Memory*
Owen Beabout, Abigail Dodd, Titus Murphy
Faculty Mentor: Enyue Lu
13. *Python-Driven Data Monitoring and Sensitivity Insights for Hatchery Incubators*
Sude Celik, Aaron Triplett
Faculty Mentors: Deepak Bastola and Xiaohong Wang
14. *A Focus on Learning Content: Teacher and Student Roles in Text-Based Discussion in Secondary Social Studies Classrooms*
Jessica McInerney
Faculty Mentor: Maida Finch
15. *It's Not What You Say, It's How You Say It: Writing Center Tutors & Academic Language*
Faith Sears
Faculty Mentor: Heather Porter
16. *Exploring Multimodal Composing in the Secondary ELA Classroom: Enhancing Literacy Through Diverse Modes of Expression*
Ben Bradner
Faculty Mentor: Heather Porter
17. *How Stagflation Risk Challenges Monetary Policy's "Divine Coincidence"?*
Naomi Garcia, Timothy Benson, Ashley Panagakos, Claudio Garcia, Evan Benigni
Faculty Mentor: Ying Wu
18. *ChatGPT-Generated Personalized Target Language Stories*
J. Ryan Allen
Faculty Mentor: Maida Finch
19. *Linguistic Justice Writing Pedagogy for First-Year Composition*
Lauren Hatch Pokhrel
Faculty Mentor: Maida Finch
20. *Digital Literacies in the Middle School: A Literature Review*
Erin L. Nathan
Faculty Mentor: Heather Porter
21. *A Critical Autoethnography of an English Secondary Education Student*
Anna Randall
Faculty Mentor: Isabel Quintana Wulf
22. *How Adaptations of "It's a Wonderful Life" Create a Genre of Storytelling*
Darien LeGates
Faculty Mentor: David Johnson

23. *Human Disturbance Drives Nest Site Selection in Least Terns (Sternula antillarum) on Assateague Island*
Ian Clancy-Mallue
Faculty Mentor: Chelsea Berns
24. *Group Behavior in Captive Black-Handed Spider Monkeys (Atelesg geoffroyi)*
James Goebel
Faculty Mentor: Mary Gunther
25. *Mapping Nonprofit Career Pathways in Delmarva's Green Economy*
Lauren Imhof
Faculty Mentor: Shane Hall
26. *The impact of a putative lipase, TleVf1, on interbacterial competition in Vibrio fischeri*
Ashlyn Shoemaker
Faculty Mentor: Kirsten Guckes
27. *Identifying the Reasons for College Students' Pornography Consumption and Potential Impacts on Academic Performance*
Matthew Lin
Faculty Mentor: Lance Garmon
28. *The Evolution of Creative Writing and Literary Magazines at Salisbury University*
Josey Zeunges
Faculty Mentor: Melissa Bugdal
29. *How Urbanization Affects Ant Populations on Salisbury University Campus*
Isabella Garrison
Faculty Mentor: Dana Price
30. *Assessing the Population Structure and Efficacy of Targeted Removal of Blue Catfish (Ictalurus furcatus) on the Choptank River*
Liam Hanley, Branson William, Erik Yetter, Christopher Jones, Brett Coakley
Faculty Mentor: Noah Bressman
31. *Polychrome Predators: The Influence of Color Morph on Eastern Screech Owl Roosting and Survival*
Rachel Stone
Faculty Mentor: Eric Liebgold
32. *Pedagogy of Play in First Year Writing*
Holly Thompson
Faculty Mentor: Melissa Bugdal
33. *Addressing Social Determinants of Health in Rural Community Pharmacies through Social Work Integration*
Caitlin LaComb, Caitlin Cecil
Faculty Mentor: Kim van Vulpen
34. *Liquidity-Weighted Sampling of Options Data for LSTM Stock Price Prediction*
Eli Prushansky
Faculty Mentor: Deepak Bastola

35. *Axon Degeneration in Hyperglycemia-Induced Zebrafish (Danio rerio)*
Wennia Ferreira Reis
Faculty Mentor: Jessica Clark
36. *Listening to the Galaxy: Enabling Salisbury Students to Engage in Radio Astronomy Through the Detection of 21cm Hydrogen*
Andrew King
Faculty Mentor: Jeffrey Emmert
37. *Identifying Gravitational Wave Sources Using Archival Data*
Darren Price
Faculty Mentor: Nicholas Troup
38. *Developing Advanced Labs for Observational Astronomy*
Ian Abrego
Faculty Mentor: Nicholas Troup
39. *Back to the Basics: A Continuation of the ARIA Study*
Lorraine Hicks, Tagnon Yanne Gbokede, Nia Lockwood, Neushinth Hettiarachchi, Veronica Velarde, Alanis Lorraine Caez-Lugo
Faculty Mentors: Echo Leaver and Meredith Patterson
40. *The Influence Music Has on Identity Formation*
Julliana Timbane
Faculty Mentor: Lance Garmon
41. *Is Hostile Personality Associated with Health Behaviors and Outcomes in Emerging Adults?*
Josie D'Aquila
Faculty Mentor: Mark Walter
42. *Back to the Basics: A Continuation of the ARIA Study*
Nishii Hettiarachchi
Faculty Mentors: Echo Leaver and Meredith Patterson
43. *ADHD: A Comparison of Virtual Vs In Person Learning Using EEG*
Veronica Velarde, Alanis Lorriane Hinks, Neushinth Hettiarachchi, Nia Lockwood
Faculty Mentor: Echo Leaver
44. *Exploring Changes in CAG Repeat DNA using FRET*
Luke Dean
Faculty Mentor: Joshua Sokoloski
45. *Production of A Girl in School Uniform (Walks into a Bar)*
Grey Reynolds
Faculty Mentor: Jamie McKittrick
46. *Augmented Skies: Displaying the Stars and their Motion using Augmented Reality*
Abigail Guy
Faculty Mentor: Steven Binz

47. *Eastern Least Tern (Sternula antillarum) Population Distribution in Relation to Human Disturbance Across Assateague and Chincoteague Beaches*
Adam Rutter, Connor Kinch, Ian Clancy-Mallue
Faculty Mentor: Chelsea Berns
48. *Measuring, Mapping, and Analyzing Surface Temperature Variations of Salisbury University Land Use/Land Cover*
Cailin Snider, Heather Sweeney
Faculty Mentors: Mara Chen and Daniel Harris
49. *Functional Redundancy of Type VI Secretion System Gene Clusters in V. fischeri*
Madison M. Harrah
Faculty Mentor: Kirsten R. Guckes
50. *Examining the Impacts of Stormwater Runoff and Land Use on Water Quality in a Small Mixed-Use Watershed on the Delmarva Peninsula*
Marshall Raff
Faculty Mentor: Keota Silaphone
51. *Investigating Regeneration and Cell Proliferation in Hyperglycemia-Impaired Zebrafish Larvae*
Phyo Min Khant
Faculty Mentor: Jessica Clark
52. *Visualizing Shellfish Contamination Data in Portugal*
Ramez Elobeid
Faculty Mentor: Xiaohong Wang
53. *It's Turtle Time! Changes in Diamondback Terrapin Nesting Phenology*
Rebecca Whit
Faculty Mentor: Eric Liebgold
54. *Characterization of VasX on Type-VI System-dependent Interactions*
Riley Bozman
Faculty Mentor: Kirsten Guckes
55. *Beyond the Melody: Exploring the Correlation Between the Size of the Nucleus Taeniae and Vocal Complexity in Songbirds*
Sara Alessandrini
Faculty Mentor: Jeremy Corfield
56. *Boundary Conditions and the Invertibility of Linear Finite Dynamical Systems*
Sean Shockley Jr.
Faculty Mentor: Michael Bardzell
57. *Minimum Quantum Degrees with Maya Diagram in a Family of Type B Partial Flag Varieties*
Stephen Barr
Faculty Mentor: Ryan Shifler
58. *Aryl Iodonium Salts to Form Arynes for the Total Synthesis of Aporphine Alkaloids*
Bryce Greenlee
Faculty Mentor: Stephen Habay

59. *Aryne Forming Reactions for the Synthesis of Aporphine Alkaloids*

Marcus Gjini

Faculty Mentor: Stephen Habay

60. *Effect of the pH on the Volume of Acrylate Hydrogels Containing Different Amounts of Hemin*

Rhona Lynch

Faculty Mentor: Zulma Jimenez