

Sabrina Perry, Ph.D.

✉ perrys1@apsu.edu




☎ +1-931-221-7416

🐙 github.com/suhbrina-perry




Professional Summary

Assistant Professor of Computer Science at Austin Peay State University with a research focus on machine learning security, adversarial attacks, and content protection through watermarking techniques that embed traceable patterns in datasets. My work centers on detecting, mitigating, and tracing data poisoning attacks in AI systems, with recent publications on DynaDetect and DynaDetect2.o. I bring over a decade of teaching, mentoring, and applied research experience, and am committed to fostering inclusive, hands-on research environments for students and collaborators.

Employment History

- 2025 – Present  **Assistant Professor.** Department of Computer Science and Information Technology, Austin Peay State University (APSU). Clarksville, TN.
- 2020 – 2025  **Graduate Instructor.** Department of Computer and Information Science, University of Mississippi. University, MS.
- 2016 – 2025  **Instructor.** Department of Engineering Technology, Mississippi Valley State University (MVSU). Itta Bena, MS.

Education

- May 2025  **Ph.D., Engineering Science (Computer Science Emphasis)** University of Mississippi.
Dissertation title: *Improving Detection Capabilities of Machine Learning Algorithms Against Data Poisoning Attacks on Image Data.*
- December 2011  **M.S. Engineering Technology** Illinois State University.
- 2003 – 2006  **B.S. Computer Science** Mississippi Valley State University

Research Publications

Journal Articles

- 1 S. Perry, Y. Jiang, S. Perry, and C. Walter, "Detecting data poisoning attacks in image datasets using a vision-language hybrid pipeline," *Under Review*, 2025, Manuscript under revision.

Conference Proceedings

- 1 S. Perry, Y. Jiang, F. Zhong, J. Huang, and S. Gyawali, "DynaDetect2.o: Improving Detection Accuracy of Data Poisoning Attacks," in *Proceedings of the IEEE Conference on Cybersecurity Applications and Research in Systems (CARS)*, Best Paper Award, USA, 2024.
- 2 S. Perry, Y. Jiang, F. Zhong, and C. Yu, "Detecting poisoning attacks with dynadetect," in *Proceedings of the International Symposium on Integrated Cybersecurity and Networks (ISICN)*, Presented at ISICN 2024, USA, 2024.

Skills

Languages	■ C, C++, Python, Java
ML Frameworks	■ TensorFlow
Tools	■ GitHub, Trello, Slack, AutoDesk AutoCAD, MS Office
Databases	■ PowerSchool SIS (Admin), basic reporting and query tools
Learning Mgmt	■ Canvas, Blackboard, D2L

Miscellaneous Experience

Faculty Service and Campus Engagement

2022 – 2025	■ Chair , Faculty Search Committee, Engineering Technology, MVSU.
	■ Freshman Advisor , Engineering Technology, MVSU.
	■ Chapter Advisor , National Society of Black Engineers (NSBE), MVSU.
2023 – 2025	■ Faculty Senator , Faculty Senate, MVSU.
Fall 2024	■ Participant , FacultyHack 2024 – SGX3 Gateways for HPC Education.

Fellowships and Awards

2024	■ Best Paper Award , IEEE CARS Conference for “DynaDetect2.o”.
2023	■ NSF Hi-Bridge Academia Fellowship , in partnership with Virginia Tech.
	■ Institute for Data Science AI Fellowship , University of Mississippi.
2020	■ Graduate Recruiting Fellowship , University of Mississippi.

Certifications

2023	■ Six Sigma Green Belt , DMEDI Track (Data-Driven Decision Making and Execution).
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Professional Memberships

2017 – Present	■ Epsilon Pi Tau – Member
2020 – Present	■ IEEE (Institute of Electrical and Electronics Engineers) – Member
	■ NSBE (National Society of Black Engineers) – Member
2024 – Present	■ Women in CyberSecurity (WiCyS) – Member