Jeffrey Alan Young

Clemson, South Carolina, USA
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Academic Appointment Sought

Assistant Professor (Tenure-Track) / Associate Professor (by experience)
Department of Computer Science, Georgia Southern University

Education

Ph.D. in Computer Science Expected July 2026
Clemson University, Clemson, SC
Dissertation Focus: AI Security, Voice Assistant Ecosystems

M.S. in Computer & Information Science 2019
Georgia Southern University, Savannah, GA

B.S. in Computer Science 2017
Armstrong State University, Savannah, GA

Research Interests

Artificial Intelligence and Machine Learning; AI Security; Voice Assistant and IoT Security; Predictive Maintenance; Data Mining; Applied Deep Learning; Responsible AI; Large-Scale Data Analytics; Cyber-Physical Systems

Academic Appointments

Graduate Teacher of Record 2022, 2023
Clemson University

- Instructor for *CPSC 4240/6240: System Administration & Security*
- Designed and delivered undergraduate and graduate curriculum covering OS security, system hardening, access control, and infrastructure management

Graduate Research Assistant 2019–Present
Clemson University

- Conducted funded research in AI security, voice assistant platforms, and IoT ecosystems
- Led development of automated policy-violation detection systems using NLP and deep learning
- Supervised undergraduate and graduate researchers; coordinated multi-institutional teams

Principal Graduate Research Assistant & Lab Manager 2017–2019
Georgia Southern University

- Led Secure Autonomous Systems & IoT (SAIoT) research group
- Managed DHS/NSA-affiliated research projects in predictive analytics and security

Industry Experience

Data Scientist (TEF 4) 2022–Present
Bosch USA

- Designed and deployed production AI/ML systems for predictive maintenance and optimization
- Built large-scale data pipelines using Python, SQL, Azure Data Lake, and AWS
- Developed dashboards and decision-support tools used by engineering leadership
- Experience directly informs applied research, curriculum design, and industry-aligned instruction

Teaching Experience

- System Administration & Security (Undergraduate / Graduate)
- Operating Systems Security
- Applied Machine Learning
- Data Science Foundations
- Cybersecurity Principles

Publications (Selected Peer-Reviewed)

- Young, J., Liao, S., Cheng, L., Hu, H., Deng, H.
  SkillDetective: Automated Policy-Violation Detection of Voice Assistant Applications in the Wild.
  USENIX Security Symposium, 2022.
- Cheng, L., Wilson, C., Liao, S., Young, J., Dong, D., Hu, H.
  Dangerous Skills Got Certified: Measuring the Trustworthiness of Skill Certification in Voice Personal Assistant Platforms.
  ACM CCS, 2020.
- Hashemi, R. R., Ardakani, O. M., Young, J., Bahrami, A. G.
  RNN Models for Evaluating Financial Indices During COVID-19.
  Big Data, Data Mining and Data Science, 2024.

- Young, J., Rasheed, A., Hashemi, R. R., Bagabas, A.
  A Methodological Framework for Validating ZKP Authentication Processes.
  IEEE HONET, 2020.

- Rasheed, A., Hashemi, R. R., Young, J., et al.
  Configurable Anonymous Authentication for the Internet of Things.
  IEEE RFID, 2019.

(Full publication list available via Google Scholar)

External Reviewing & Professional Service

Reviewer: USENIX Security, ACM CCS (Artifact Evaluation), IEEE INFOCOM, IEEE GLOBECOM, ACSAC, IEEE IPCCC, IEEE ESSCA

Professional Memberships: IEEE, IEEE Computer Society, IEEE Young Professionals, Upsilon Pi Epsilon, Phi Kappa Phi

Grants & Funding Potential

- Experience collaborating on federally aligned research (DHS/NSA Centers of Academic Excellence)
- Strong trajectory for NSF Secure & Trustworthy Cyberspace (SaTC) and CISE proposals
- Industry-funded research experience transferable to sponsored academic projects

Student Mentoring

- Supervised undergraduate and graduate researchers in AI security and data science
- Mentored students in publication writing, conference presentation, and research ethics

Technical Skills

Python, Java, C/C++, R, SQL, C#, JavaScript;
PyTorch, TensorFlow, scikit-learn;
Azure, AWS, Linux;
Power BI, Tableau;
Git, GitHub, GitLab

Honors & Awards

Talford Family Annual Fellowship in Computing (2019, 2022)
Bhatia Foundation Scholarship in Computer Science
Dixie Crystal Scholarship

Citizenship

United States Citizen