SARAH J. BOLTON, Ph.D.

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Director, Academy Center for Cyberspace Research
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EDUCATION

- Ph.D., Computer Science — AFIT, 2023
- M.S., Computer Science (Artificial Intelligence) — AFIT, 2018
- B.S., Computer Science (Math minor) — University of Arizona, 2012
- Air Command and Staff College — 2025
- Squadron Officer School — 2019

ACADEMIC APPOINTMENTS

- Assistant Professor, USAFA (2023–Present)
- Director, Academy Center for Cyberspace Research (2024–Present)

RESEARCH INTERESTS

- AI/ML, Aerospace data analysis
- Cyber operations
- Computer Science education
- Human–Machine Teaming

PUBLICATIONS

- ADS-B classification using multivariate LSTM–FCN models — Journal of Supercomputing (2023)
- Multi-Sensor Aircraft Classification — CSCE 2023
- Aircraft Classification Using Flight Phase Identification — IEEE NAECON 2023

TEACHING EXPERIENCE

- CS110, CS210 (Director), CS220 (Director), CS380 (incoming Director)
- CS426, CS405, CyS405
- Dean's Teaching Certificate; Course Design Institute (2025); MTCC Cohort 8

TECHNICAL SKILLS

- Python, C, Java, JavaScript, HTML/CSS, JSON, PHP
- Git, Linux, LaTeX, TensorFlow