

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 — University of Arizona, 2012 (Minor in Mathematics)
Air Command and Staff College — 2025
Squadron Officer School — 2019

ACADEMIC APPOINTMENTS

Assistant Professor, USAFA Department of Computer & Cyber Sciences (2023–Present)
Director, Academy Center for Cyberspace Research (2024–Present)

TEACHING EXPERIENCE

CS110, CS210 (Director), CS220 (Director), CS380 (incoming Director)
CS426, CS405, CyS405
Dean's Teaching Certificate, CDI 2025, MTCC Cohort 8

RESEARCH

AI/ML, aerospace data analysis, cyber operations, CS education, HMT

PUBLICATIONS

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

MILITARY EXPERIENCE

CJTF-HOA/J6 C4 Planner (2019)
USCENTCOM CAOC ISR Comms Flight Commander (2014–2015)
25 SRS Network Ops Flight Commander (2018–2020)
90 CS OIC/Deputy Flight Commander (2013–2016)
Airborne Spanish Cryptologic Linguist (2001–2012)

TECHNICAL SKILLS

Python, C, Java, JS, HTML/CSS, JSON, PHP; Git, Linux, LaTeX, TensorFlow