

Christopher Flathmann Ph.D.

APPLIED AI & R&D LEADERSHIP

Human-AI teamwork | AI agents | Shared knowledge systems | Team resilience

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Build AI agents that model shared knowledge and coordinate teams under uncertainty. Lead R&D from funding strategy through hands-on systems development and evaluation. Train high-performing researchers on human-AI teamwork in applied settings.

\$7.88M

Funded R&D portfolio

9

Funded R&D programs

PROFESSIONAL EXPERIENCE

Clemson University

2023-Present

Research Group Director | AI Research Center Co-Director (2023-Present)

Assistant Professor, 2024-Present; Research Assistant Professor, 2023-2024.

- Secured **\$7.88M across 9 R&D programs** as lead, co-lead, or senior technical contributor on Army, Air Force, Navy, and NSF awards.
- Led development of **knowledge-network and offensive/defensive AI agents**, adaptive AI for cyber response and healthcare, and educator coaches; contributed hands-on to implementation.
- Won repeat Army and Air Force funding; **Yearly total for newly acquired funding increased 94%**, from **\$1.49M in 2025** to **\$2.91M in 2026**.

SELECTED FUNDED AI PROGRAMS

AI knowledge networks for team coordination

U.S. Army Research Laboratory | \$2.08M total; \$816K Clemson | Program lead

Build AI knowledge networks that act as a coordination layer for teams in contested environments. Develop methods for shared world model formation, drift, and reconciliation as information degrades.

AI agents for cognitive vulnerability testing

U.S. Air Force | \$829K | Program co-lead

Build offensive and defensive AI agents to identify cognitive vulnerabilities in teams. Develop interventions that use failure to accelerate adaptation and resilience under adversarial pressure.

AI interventions for team coordination and resilience

U.S. Air Force | \$390K | Program lead

Design AI interventions to strengthen coordination between people in high-conflict, competitive environments. Secured Air Force Young Investigator funding as a first-year professor (2025).

TECHNICAL EXPERTISE

Systems: AI agents; Knowledge Representation; Shared World Models; Adaptive Autonomy; Mental Models

Evaluation: Team Effectiveness; Cognitive Vulnerability Analysis; Quantitative and Qualitative Analysis; Performance Modeling

EDUCATION & BACKGROUND

Clemson University: Ph.D., Human-Centered Computing, 2023; B.S., Computer Science, 2018.

Early software engineering: Amazon FinTech (2018); Michelin R&D (2017).