

# Riverside Research Institute

## Artificial Intelligence and Machine Learning Lab

Vision: Putting the best of teamed human and machine intelligence on tap for the warfighter, anytime and anywhere.

Mission: To deliver user-centered revolutionary technologies in machine recognition, brain-like computation, extended reality and human-machine synergy.

- Object and activity recognition
- Accelerated AI
- Human-machine synergy
- Virtual and augmented reality
- Quantified warrior
- Secure and Resilient Systems

## Relevant Capabilities

- Cyber-operation specific cognitive task analysis (CTA) - discover tactics, techniques, and the cognitive factors that enhancing or disrupting cyber operators.
- Quantitative cognitive modeling to capture or predict cognitive responses; prediction is key to developing an effects-oriented offensive cyber strategy.
- Improve or hinder performance in cyber operations using cognitive effects implementing novel oppositional human factor methodologies.
- Measure and make sense of behavioral & physio signals.

## Relevant past performance



- NGA geocog performer
- DARPA HARDEN performer

Cognitive and cyber testbeds



## Teaming opportunities

- Extensible cyber test range
- Synergizing partners for CTA and cognitive modeling
- Synergizing partners for cyber operations subject matter expertise
- Domain knowledge and subject matter expertise
- Fellow pioneers looking to push the boundaries in cyber operations