

- Organization:
 - Science Applications International Corporation (SAIC)
- Lead Investigator:
 - Jon Touryan, Ph.D. (neuroscientist)
- Current Team Members:
 - Currently negotiating with potential academic teammates

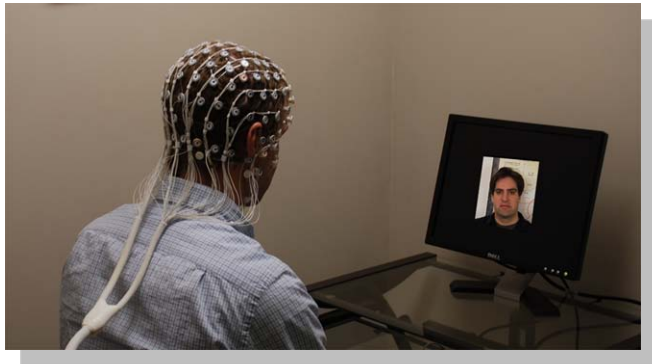
Research Areas of Interest

- *Information Triage*
 - Brain-in-the-loop tools to rapidly process large amounts of sensor data to find significant targets, threats, patterns
- *Knowledge Detection*
 - Direct measures of recognition and familiarity
- *Brain-Computer Interfaces*
 - Computer response based on the directly measured desires, intentions, and cognitive states of the human
- *Neuroergonomics, Applied Cognition*
 - Application of cognitive and neuroscience principles in real-world contexts and environments

Qualifications and Capabilities

- Experience working on applied neuroscience projects for DARPA
- Extensive, ongoing collaboration with universities on topics as diverse as neuroscience, data mining, language technologies, image processing, event detection, decision making, and machine learning
- Laboratory for research in neural signal capture and processing (EEG).
- Internal R&D projects exploring the direct assessment of a subject's familiarity with people, places, or objects using real-time EEG classification techniques.

EEG Acquisition



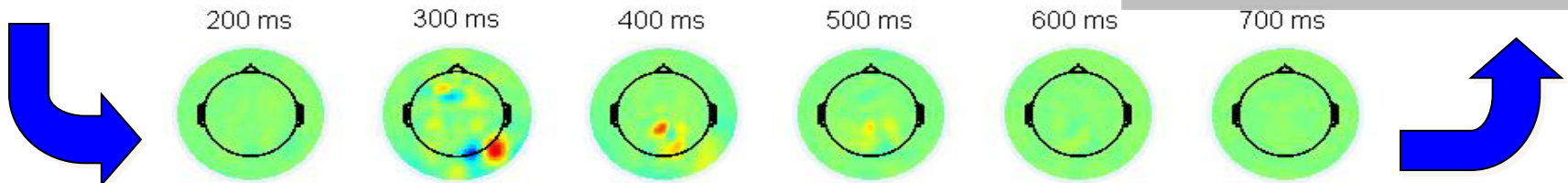
EEG = Electroencephalography

ERP = Event Related Potential

Quantification of Familiarity



Weighted ERP



- We are seeking academic teammates with expertise in:
 - Neuroscience
 - Neuroimaging (fMRI, EEG)
 - Neuroeconomics
 - Behavioral economics
 - Organizational psychology and behavior
 - Sociology
 - Anthropology
 - Strategic and risk management

EEG = Electroencephalography fMRI = functional magnetic resonance imaging

Contact Information

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