



KIDLAB

*Krasnow Institute for Advanced Study and College of
Education and Human Development*

George Mason University

Lead Investigator: Layne Kalbfleisch, M.Ed., Ph.D.

Current Team Members: Frederick Brigham, Ph.D.,
Associate Professor, CEHD; Graduate Students: Joshua Roberts
(Biopsychology), Ashlee Loughan (Clinical Psychology),
Dorothy Zhang (Educational Psychology), Ross Dunseath,
Kappametrics



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- **Areas of Interest: reasoning, impact of prescriptive modulation of environmental contexts on functional neuroanatomy, phenomena of trust/deception between individuals and amongst groups in typical groups and special cohorts relevant to defense intelligence capabilities**
- **Proposing a more elegant articulation of reciprocal influences of environment (physical, social, perceived and implicit influences) on the nervous system and consequential behavior**



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- PI: dually-trained educational psychologist and cognitive neuroscientist
- Experience with institutional review boards for the approval of experiments with human subjects
- Experimental designs sensitive to the preservation of ecological validity in neuroimaging paradigms across the lifespan and in cases of disabilities such as Asperger's and ADHD
- Ability to triangulate human ability and performance from internal and external start points/define novice and expert performance/prescriptively modulate context to explore neurologies related to optimal behavior and performance
- Technical Capabilities: Co-registering fMRI/EEG & Eye Tracking



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Specific capabilities we are seeking:

1. Data fusion techniques for multiple imaging modalities
2. Data mining approaches for large, varied sets of data



Contact Information

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