

Ralph H. Cullen

CURRICULUM VITAE

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Education

- Fall 2008 – Present **Georgia Institute of Technology**
Atlanta, GA
Completing requirements for M.S. in Engineering Psychology
- Fall 2004 – Spring 2008 **Georgia Institute of Technology**
Atlanta, GA
B.S. In Psychology (High Honor)

Research Activities

Knowledge Engineering in Complex Systems – Georgia Institute of Technology (2008 – present)

Collaborating with Deere & Company to determine what knowledge operators need to perform the tasks that make them successful and efficient at completing their responsibilities. Using knowledge engineering techniques to extract this information from the operators themselves in structured interviews.

The Persistence of Content Knowledge – Georgia Institute of Technology (2007 – present)

Examining how different learning styles and levels affect the ability of the human to update their knowledge of a system when the system changes. Conducting an experiment teaching participants the content and procedures of using a system in different ways and then transferring them through other similar systems of varying difference.

Publications

- Cullen, R. H., O'Brien, M. A., Rogers, W. A., & Fisk, A. D. (Accepted). The persistence of content knowledge. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting 2009*, San Antonio, Texas: HFES.
- Cullen, R. H., Serrano-Baquero, D. Beer, J. M., McBride, S. A., Smarr, C., Rogers, W. A., Fisk, A. D. (2009). *Developing a working model: An interim report of grove mowing operations* (HFA-TR-0902). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

Presentations

Cullen, R. H., O'Brien, M. A., Rogers, W. A., & Fisk, A. D. (October 2009). The persistence of content knowledge. *To be presented at the Human Factors and Ergonomics Society Annual Meeting 2009*. San Antonio, Texas.

Internships

User Experience Intern – Cingular Human Centered Design (Summer 2006)

Drew up and assisted in designing workflow diagrams and wireframes for a digital solution. Observed call center operators; coding during the observation. Coded and taped focus group discussions. Coded, taped, and moderated card sort and wireframe walkthroughs with usability participants.

Supply Chain Intern – BAX Global Supply Chain Logistics (Summer 2005)

Assisted in research for a new consulting solution for BAX Global. Summarized and analyzed background and industry reference material for important information and helpful principles to apply to consulting ideals for BAX's commercial customers.

Certifications

- Georgia Institute of Technology Institutional Review Board, Protection of Human Research Subjects course, certified to test human subjects (January 2007 – Current)
- Center for Research and Education on Aging and Technology Enhancement (CREATE), certified to test participants and score data (February 2007 – Current)

Memberships

- Human Factors and Ergonomics Society – Student Affiliate (2009 – present)
- Human Factors and Ergonomics Society – Georgia Institute of Technology Student Chapter Member (2008 – present)
- Psi Chi Psychology Honors Society (2007 – present)

Service and Experience

Vice President/Treasurer – Human Factors and Ergonomics Society – Georgia Tech Student Chapter (2009 – Present)

Manage and balance the finances of the chapter. Oversee reimbursements for both the chapter members and the chapter itself. Assist the president in everyday expenditures and planning of events. Helped in the transfer of all files and documents to a digital medium.

Computer and Equipment Manager – Human Factors and Aging Lab (2008 – present)

Manage the organization, service, and upkeep of the hardware and software of the lab's personal and participant computers. Researched, ordered, and set up new participant computers and a server backup system. Also set up and helped categorize the lab's equipment checkout system both online and offline.

Research Assistant – Georgia Institute of Technology (2007 – present)

Assist in completing the lab's overarching research goals. Major duties include: designing and researching for new studies, testing participants, coding and analyzing data, and presenting data in a variety of forms including papers and presentations.

Teaching Assistant – Georgia Institute of Technology (Fall 2008)

Assisted Dr. Gregory Corso, Engineering Psychology Course (Undergraduate). Major duties included: aiding professor in class on breakout assignments, grading tests and assignments, and managing the gradebook.

Graduate Coursework

General Psychology

Cognitive Psychology (in progress)

Engineering Psychology

Engineering Psychology I (Controls)

Engineering Psychology II (Displays)

Seminar: Situation Awareness in Dynamic Environments

Quantitative

Research Design

Psychological Statistics I (Analysis of Variance)

Psychological Statistics II (Multiple Regression/Correlation)

Industrial Design

Universal Design (in progress)

Computer Experience

PC Hardware

Windows 2000, XP, Vista, and 7 Operating Systems

Microsoft Office and Visio

SPSS 15 and 16

E-Prime 1 and 2

Endnote 9, X, and X1

Some SQL, Java