

Sara McBride

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Curriculum Vitae

Georgia Institute of Technology  
School of Psychology  
654 Cherry Street  
Atlanta, GA 30332-0170

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**EDUCATION**

Fall 2007 – Current

**Georgia Institute of Technology**

Atlanta, Georgia

Completing the requirements for a M.S. in Engineering Psychology

Fall 2003 – Spring 2007

**Rice University**

Houston, Texas

B.A. in Psychology (Magna cum Laude)

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**PROFESSIONAL EXPERIENCE**

**Research Assistant** – Georgia Institute of Technology, 2007 – Current

- Assist with research conducted in the Human Factors & Aging Laboratory.
  - Major duties include: designing experiments, testing participants, conducting literature reviews, coding and analyzing data, and preparing and presenting findings in written and oral form.

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**RESEARCH ACTIVITIES**

**Knowledge Engineering Analysis** – Georgia Institute of Technology, 2008 – Current

- Collaborating with Deere & Company in using knowledge engineering techniques to gather and document the knowledge that operators rely on when performing system-specific tasks.

**Provider Difficulties in Home Healthcare** – Georgia Institute of Technology, 2008 – Current

- Examining human factors issues as they relate to home health care.
- Conducting structured interviews with professional home health care providers to assess the difficulties encountered on the job as well as potential human factors interventions.

**Effect of Workload on Automation Usage** – Georgia Institute of Technology, 2007 – Current

- Investigating the effect of mental workload on a user's dependence on an automated system.
- Responsible for experimental design, including adapting a computer simulation to be used in experiment, data collection, and data analysis.

**Perceived Personality from Vocal Characteristics** – Rice University, 2006 – 2007

- Investigated the perceived personality traits from human voice characteristics. Responsible for scheduling subjects, collecting and analyzing data, and writing a comprehensive report covering the research and findings each semester.

**PUBLICATIONS & PROCEEDINGS**

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Mitzner, T., Beer, J.M., **McBride, S.E.**, Rogers, W.A., & Fisk, A.D. (in press). Older Adults' Needs for Home Health Care and the Potential for Human Factors Interventions. *Proceedings of the Human Factors and Ergonomic Society 53<sup>rd</sup> Annual Meeting*. San Antonio, TX: Human Factors and Ergonomics Society.

**McBride, S. E.**, Beer, J. M., & Olson, K. E. (2008). Automation and aging: The future is now. *Signpost: Journal of Dementia and Mental Health Care for Older People*.

**TECHNICAL REPORTS**

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Cullen, R.H, **McBride, S.E.**, Beer, J.M., Smarr, C., Serrano Baquero, D., Rogers, W.A., & Fisk, A.D. (2009). *Understanding orchard mowing: Knowledge engineering project* (HFA-TR-0908). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

Bujak, K.R., Adams, A., Baranak, A.S., Beer, J.M., Burnett, J.S., DeBlasio, J.M., Fausset, C., Jeon, M., **McBride, S.E.**, Olson, K., Smarr, C., Zheng, R. (2009). *Deere & Company website analysis*. Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Ergonomics Society, Student Chapter.

Adams, A., Beer, J., Bujak, K., Kline, K., **McBride, S.**, Smarr, C. (2009). *Usability assessment of <http://psychology.gatech.edu/>*. Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Ergonomics Society, Student Chapter.

Cullen, R.H, Serrano Baquero, D., Beer, J.M., **McBride, S.E.**, Smarr, C., Rogers, W.A., & Fisk, A.D. (2009). *Developing a working model: A interim report of grove mowing operations* (HFA-TR-0902). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

**PRESENTATIONS**

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Beer, J.M., **McBride, S.E.**, Mitzner, T.L., Rogers, W.A., & Fisk, A.D. (2009, November). *A Needs Analysis for Home Healthcare Providers: A Human Factors Perspective*. Presentation to the Healthcare Robotics Laboratory, Atlanta, GA.

**McBride, S.E.**, Beer, J.M., Mitzner, T.L., Rogers, W.A., & Fisk, A.D. (2009, October). *Challenges Faced by Home Healthcare Providers*. Presentation to the Aware Home Research Initiative Group, Atlanta, GA.

**McBride, S.E.**, Rogers, W.A., & Fisk, A.D. (2009, September). *The Effect of Mental Workload and Age on Dependence Using an Automated System*. Presentation at the Engineering Psychology Colloquium Series, School of Psychology, Atlanta, GA.

Mitzner, T.L., Beer, J.M., **McBride, S.E.**, Rogers, W.A., & Fisk, A.D. (2009, August). *Difficulties Encountered by Home Healthcare Providers: A Human Factors Investigation*. Paper presented at the Annual Meeting of the American Psychological Association, Toronto, Ontario, Canada.

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Olson, K.E., Beer, J.M., & **McBride, S.E.** (2009, July). *The Future of Automation and Robotics: Helping Older Adults Age in Place*. Invited presentation to Emory University Center for Lifelong Learning. Atlanta, GA.

**McBride, S.E.**, Beer, J.M., & Olson, K.E. (2009, April). *Automation and Robotics in an Aware Home Environment*. Invited presentation to Mableton Senior Group. Atlanta, GA.

**McBride, S.E.**, Beer, J.M., & Olson, K.E. (2009, March). *Human Factors Research: Helping Older Adults Age in Place*. Invited presentation at Georgia Recreation and Parks Association Senior Section Conference. Decatur, GA.

Beer, J.M., **McBride, S.E.**, & Olson, K.E. (2009, January). *Everyday Applications of Automation and Robotics: The Contribution of Human Factors Research*. Invited presentation to Georgia Tech Silver Jackets Alumni Association. Atlanta, GA.

Olson, K.E., Beer, J.M., & **McBride, S.E.** (2008, October). *The Human Side of Automation and Robotics: The Contribution of Human Factors Research*. Invited presentation to Emory University Center for Lifelong Learning. Atlanta, GA.

**McBride, S.E.**, Norbergs, I., O'Connor, M., Scarbrough, K. (2006, May). *Improving Hospital Bed Access for the Elderly Patient*. Presented at the 2006 Houston Chapter Human Factors and Ergonomics Society Conference. Houston, TX.

### TEACHING EXPERIENCE

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#### **Lab Instructor**, Georgia Institute of Technology, Spring 2010

- Co-instructor for Undergraduate Applied Experimental Psychology Lab
  - Responsible for preparing presentations and instructional materials, creating and grading assignments, as well as providing guidance to students regarding a semester long design project.

#### **Guest Lecturer**, Georgia Institute of Technology, Spring 2009

- "Human Factors and Aging", Undergraduate Human-Computer Interaction.

#### **Teaching Assistant**, Georgia Institute of Technology, Fall 2008

- Assistant to Dr. Arthur Fisk, Graduate Research Methods
  - Duties include grading homework, exams, and research proposals, as well as meeting with students to discuss the course, and giving a series of lectures designed to aid student in writing a scientific research proposal.

### PROFESSIONAL SERVICE

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#### **Website Usability Team Member** – HFES Georgia Tech Student Chapter, 2008 – Current

- Conducted a usability assessment on Deere & Company's website, <http://www.deere.com/>. Final written report was submitted to a Deere & Company representative.

#### **Education Outreach** – HFES Georgia Tech Student Chapter, November 2009

- Volunteered in Human Factors education and demonstration for the Fernbank Natural History Museum Cub Scout Event.

#### **Website Usability Team Member** – HFES Georgia Tech Student Chapter, 2008 – Current

- Conducted a usability assessment on the School of Psychology's website, <http://psychology.gatech.edu/>. Multiple usability techniques were employed, and a final

## Sara McBride

written report was provided to the School of Psychology. Additionally, was involved in the redesign of the website, which was launched Summer 2009.

### **Secretary, Human Factors and Ergonomics Society, Georgia Tech Student Chapter, 2008-2009**

#### **Education Outreach** – HFES Georgia Tech Student Chapter, November 2008

- Volunteered in Human Factors education and demonstration for the Fernbank Natural History Museum Cub Scout Event.

#### **Cognitive Aging Conference Graduate Student Coordinator** – Georgia Institute of Technology, Spring 2008

- Organized abstracts, responsible for composition and printing of program and abstract books.
- Managed student volunteers in hosting conference, staffing the registration booth, assisting during poster and plenary sessions.
- Worked with vendors and hotel personnel to plan details and logistics of conference.

#### **Departmental Assistant** – Georgia Institute of Technology, Fall 2007

- Assisted the School of Psychology administration in fulfillment of their various duties. Duties included gathering information for the School's 2007-08 newsletter and organizing and reviewing accounting records.

## **HONORS AND AWARDS**

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#### Georgia Institute of Technology President's Fellowship, 2007 – Current

- Awarded to doctoral students with exemplary levels of scholarship and innovation.
- Provides an additional \$5,500 stipend per year.

#### Rice University President's Honor Roll, Spring 2004 – Spring 2007

#### American Subcontractors Association Scholarship, 2006

- Competitive scholarship intended to assist students pursuing higher education, awarded by the local Rio Grande Valley, Texas chapter.

#### Annie Born Memorial Scholarship, 2003-2006

- Scholarship awarded by the Roofing Contractors Association of Texas.

## **CERTIFICATIONS**

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#### Georgia Institute of Technology Institutional Review Board, Protection of Human Research Subjects course, (August 2007 – Current)

- Certified to test human participants

#### CREATE: Center for Research and Education on Aging and Technology Enhancement, (August 2007 – Current)

- Certified to test participants and score participant data

## MEMBERSHIPS

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**American Psychological Association**, student affiliate, 2009

**American Psychological Association – Division 21: Applied Experimental & Engineering Psychology**, student affiliate, 2009

**Human Factors and Ergonomics Society (HFES)**, student member, 2008 – Current

**HFES, Georgia Tech Student Chapter**, member, 2008 – Current

**Phi Beta Kappa**, 2007 – Current

**Psi Chi, National Honor Society in Psychology**, 2005 – Current

## GRADUATE COURSEWORK

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### Psychology

Research Methods  
Sensation & Perception  
Cognitive Psychology  
Developmental Psychology  
Psychomotor and Cognitive Skill Learning and Performance (in progress)  
Biopsychology (in progress)

### Quantitative

Statistics 1 (ANOVA)  
Statistics II (Regression)  
Multivariate Statistics

### Engineering

Engineering Psychology I  
Engineering Psychology II  
Seminar: Comprehension in Dynamic Environments

### Other

Survey of Cognitive Aging  
Human-Centered Design

## REFERENCES

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Wendy A. Rogers, Ph.D.  
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Arthur D. Fisk, Ph.D., CHFP  
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