

Sara McBride

Curriculum Vitae

Georgia Institute of Technology
School of Psychology
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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)

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.

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.

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 Dependence - 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.

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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

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 53rd 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

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

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.

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.

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TEACHING EXPERIENCE

Guest Lecturer, Georgia Institute of Technology

- Human Factors and Aging, Undergraduate Human-Computer Interaction, Spring 2009.

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

Website Usability Team Member - HFES Georgia Tech Student Chapter, 2008 - Current

- Conducting a usability assessment on the School of Psychology's website, <http://psychology.gatech.edu/>. Multiple usability techniques will be employed, and final written report will be provided to the School of Psychology.

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

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.

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Annie Born Memorial Scholarship, 2003-2006

- Scholarship awarded by the Roofing Contractors Association of Texas.

CERTIFICATIONS

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

American Psychological Association, student affiliate, 2008 - Current

American Psychological Association - Division 21: Applied Experimental & Engineering Psychology, student affiliate, 2008 - Current

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

Psychology

Research Methods
Sensation & Perception
Cognitive Psychology
Developmental Psychology - 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

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