

JENAY M. BEER

CURRICULUM VITAE

Georgia Institute of Technology
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EDUCATION

Georgia Institute of Technology 2007-present
M.S. in Engineering Psychology (*expected Fall, 2009*) Atlanta, GA

University of Dayton 2002-2006
B.A. in Psychology (*Magna Cum Laude*) Dayton, OH

RESEARCH ACTIVITIES

Social Presence of Robotic and Virtual Agents – Georgia Institute of Technology (2007-current)

- Investigating age-related differences in emotion recognition of facial emotion-expressive robotic and virtual agents using the Philips Virtual iCat.

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.

Human Factors Issues 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, and potential human factors interventions.

Developing an Emotive Roomba – Georgia Institute of Technology (2009-current)

- A multi-disciplinary HRI effort in developing emotion-generation architecture for a Roomba robotic vacuum cleaner.

Auditory Superiority Effect – University of Dayton, Ohio (2004-2006)

- Examined the extension of the picture superiority effect into the auditory realm. Compared free recall of sounds and speech, and co-authored conference presentations on findings.

Needs Assessment for Bachelor in Social Work – University of Dayton, Ohio (2005-2006)

- Designed and distributed surveys investigating the need for a Bachelors of Arts degree in Social Work to add to the curriculum at the University of Dayton, Ohio.

PROCEEDINGS AND OTHER PUBLICATIONS

Beer, J. M., Fisk, A. D., & Rogers, W. A. (in press). Emotion recognition of virtual agents: The effects of age and emotion intensity. *Proceedings of the Human Factors and Ergonomic Society 53rd Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society.

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*. Santa Monica, CA: Human Factors and Ergonomics Society.

Beer, J. M., Ezer, N. (October 2008). Human-robotic interactions: The development of "helping robots" for the older population. *Signpost: Journal of Dementia and Mental Health Care for Older People*.

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

PRESENTATIONS

Beer, J. M., Fisk, A. D., & Rogers, W. A. (2009, October). *Emotion recognition of virtual agents: The effects of age and emotion intensity*. To be presented at the 53rd Annual Human Factors and Ergonomics Society Meeting, October 19-23, San Antonio, TX.

Mitzner, T., **Beer, J. M.**, McBride, S. E., Rogers, W. A., & Fisk, A. D. (2009 October). *Older Adults' Needs for Home Health Care and the Potential for Human Factors Interventions*. To be presented at the 53rd Annual Human Factors and Ergonomics Society Meeting, October 19-23, San Antonio, TX.

Crutcher, R. J. & **Beer, J. M.** (2006, November). *An auditory picture superiority effect*. Poster presented at the 47th annual meeting of the Psychonomic Society. Houston, Texas.

Beer, J. M. & Crutcher, R. J. (2006, May). *An auditory superiority effect: sounds are better than words*. Poster presented at the 78th annual meeting of the Midwestern Psychological Society. Chicago, IL.

Beer, J. M., Cook, C. E., & Davis-Berman, J. L. (2006, April). *Needs assessment: student interest in a Bachelors of Social Work at the University of Dayton*. Poster presented at the 18th annual Stander Symposium. University of Dayton, OH.

Beer, J. M. & Crutcher, R. J. (2005, April). *Recall of sounds and words: evidence for an auditory superiority effect*. Poster presented at the 17th annual Stander Symposium. University of Dayton, OH.

INVITED PRESENTATIONS

- Beer, J. M.**, McBride, S. E., & Olson, K. E. (2009). *The future of automation and robotics: Helping older adults age in place*. Invited presentation to Emory University Center for Lifelong Learning. Atlanta, GA.
- Beer, J. M.**, McBride, S. E., & Olson, K. E. (2009). *Automation and robotics for an aware home environment*. Invited presentation to the Mableton Senior Group. Atlanta, GA.
- Olson, K. E., **Beer, J. M.**, & McBride, S. E. (2009). *Human factors research: Helping older adults age in place*. Invited presentation to The Annual Georgia Recreation & Parks Association Senior Section Meeting. Atlanta, GA.
- Beer, J. M.**, McBride, S. E., & Olson, K. E. (2009). *Everyday applications of automation and robotics: The contribution of human factors research*. Invited presentation to the Silver Jacket club at Georgia Institute of Technology. Atlanta, GA.
- Beer, J. M.**, McBride, S. E., & Olson, K. E. (2008). *The human side of automation and robotics: The contribution of human factors research*. Invited presentation to Emory University Center for Lifelong Learning. Atlanta, GA.
- Beer, J. M.** (2008). *The effect of robot expression on performance and attitude*. Presentation to the Aware Home Faculty Meeting at Georgia Institute of Technology. Atlanta, GA.

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.

CERTIFICATIONS AND TRAINING

- Georgia Institute of Technology Institutional Review Board, Protection of Human Research Subjects course, certified to test human subjects (August, 2007)
- Center for Research and Education on Aging and Technology Enhancement (CREATE), certified to test participants and score data (Fall 2007 – Current)
- University System of Georgia ethics training module

MEMBERSHIPS

- Human Factors and Ergonomic Society – Student Affiliate (2007-present)
- Human Factors and Ergonomic Society Georgia Tech Student Chapter – Member (2007-present), Webmaster
- American Psychological Association Division 21 (Applied Experimental and Engineering Psychology) – Student Member (2009-present)

TEACHING EXPERIENCE

Guest Lecturer – User Interface Design

- “Human Factors and Aging.” Georgia Institute of Technology (Undergraduate Course). Instructor: Christopher Plaue. Spring 2009.

Teaching Assistant – Georgia Institute of Technology (Spring 2008)

- General Psychology Course (Undergraduate). Instructor: Dr. Daniel Spieler. Major duties included: grading essay exams, pre-exam consultation.

PROFESSIONAL SERVICE AND 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.

Website Usability Project Leader – HFES Georgia Tech Chapter (2008-current)

- Leading team in conducting a usability assessment on the School of Psychology’s website, <http://psychology.gatech.edu/>. Multiple usability techniques will be administered, and a final written report with prototype recommendation will be provided to the Department.

Webmaster – Human Factors and Ergonomics Society Student Chapter (2009-current)

- Responsible for content development, management, and maintenance of the website <http://cyberbuzz.gatech.edu/hfes/>.

Webmaster – Human Factors and Aging Laboratory and CREATE Center (2007-current)

- Responsible for content development, management, and maintenance of the websites www.hfaging.org and www.create-center.org.

Website Usability Project Leader – Human Factors and Aging Laboratory (Fall 2008)

- Project leader and usability advisor for update and overhaul of the Human Factors and Aging Laboratory website, www.hfaging.org. Advised web content organization and web usability standards.

Education Outreach – HFES Georgia Tech Student Chapter (November, 2008)

- Volunteered in Human Factors education and demonstration for Fernbank Natural History Museum Boy Scout event.

Student Volunteer – Cognitive Aging Conference (2008)

Department Assistant – Georgia Institute of Technology (Fall 2007)

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

GRADUATE COURSEWORK

Psychology:

Sensation & Perception

Cognitive Psychology

Quantitative:

Research Design

Statistical Analysis I (ANOVA)

Statistical Analysis II (MRC)

Multivariate Statistics

Engineering:

Engineering Psychology I (Controls)

Engineering Psychology II (Displays)

Human Centered Design

Comprehension in Dynamic Environments

Other:

Human Robotic Interaction

COMPUTER EXPERIENCE

Adobe Dreamweaver

Adobe Acrobat Professional

Endnote X

Eprime

Microsoft FrontPage

Microsoft Office

Microsoft Windows

Microsoft Visio

Open Platform for Personal Robotics (OPPR)

SPSS 16.0

Visual Basic.net

REFERENCES AVAILABLE UPON REQUEST
