

# Laura H. Barg-Walkow, Ph.D.

## Curriculum Vitae

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

Phone: (610) 506-4651  
Email: [Lhbw3@gatech.edu](mailto:Lhbw3@gatech.edu)  
Web: <http://hfaging.org>

### EDUCATION

---

**Georgia Institute of Technology**, Atlanta, Georgia 2011 – 2017

**Ph.D.** in Engineering Psychology (March 2017)

Advisor: Wendy A. Rogers, Ph.D.

Dissertation: *Understanding multiple task coordination in a complex healthcare environment*

Preliminary Examination (Passed Summer 2015): *Toward a conceptual model of external interruptions and task outcomes in complex environments*

**M.S.** in Engineering Psychology (November 2013)

Advisor: Wendy A. Rogers, Ph.D.

Thesis: *Understanding the role of expectations on human responses to an automated system*

**Rice University**, Houston, Texas 2007 – 2011

**B.A.** in Psychology, Minor in Global Health Technologies

Advisor: Philip T. Kortum, Ph.D.

### EXPERIENCE

---

**Human Factors & Aging Laboratory**, Graduate Research Assistant 2011 – 2017

Supervisor: Wendy A. Rogers, Ph.D.

- Assisted with research conducted in the Human Factors & Aging Laboratory at the Georgia Institute of Technology. Major duties included: designing experiments, testing participants, conducting literature reviews, coding and analyzing data, and preparing and presenting findings.

**Johns Hopkins Hospital**, Human Factors Engineering Intern Summer 2015

Supervisor: Peter A. Doyle, Ph.D.

- Worked on a range of human factors projects for improving patient safety throughout the hospital, including: improving training materials for medical devices, reducing surgical site infections, coordinating improvement of patient handoffs, assessing infusion pump alarm management, evaluating proficiency criteria for physiological monitor use, identifying root causes of device failures, reducing noise in units, and participating in meetings with Patient Safety Officers.
- Led a hospital-wide project on staff vigilance for reducing patient falls. This included identifying evidence-based recommendations, developing and analyzing a questionnaire on current barriers and facilitators, and providing short- and long-term recommendations for process improvement.

**Google**, User Experience Research Intern Summer 2014

Supervisor: Aideen J. Stronge, Ph.D.

- Worked on all aspects of user experience research for both DoubleClick Search and Bid Manager. Methods included: large-scale surveys, interviews, personas, and customer connections
- Led a team of researchers, designers, engineers, and project managers on a strategic project.
- Disseminated research through 10 internal reports and presentations (five as 1<sup>st</sup> author).

**Human Interfaces**, Research Intern

Summer 2010

Supervisor: Gregory W. Liddell, Ph.D.

- Researched out-of-box user experiences for initial impressions of new laptops.
- Created presentations for presenting the company's findings to external clients.

**Beyond Traditional Borders Program**, Intern

Summer 2009

Supervisors: Z. Maria Oden, Ph.D.; Rebecca R. Richards-Kortum, Ph.D.

- Created human factors educational materials used for undergraduate engineering education.
- Assisted in building, assessing, and optimizing devices implemented in developing countries.
- Previously worked with Beyond Traditional Borders on class projects, including Diagnostic-Lab-in-a-Backpack and Eye Care Pack. As of 2011, these technologies were used by over 10,000 patients in over 10 countries (Diagnostic-Lab-in-a-Backpack); 2,000 patients in two countries (Eye Care Pack).

---

**JOURNAL PUBLICATIONS**

Margulieux, L. E., Chen, D.-W., McDonald, J. D., Bujak, K. R., Gable, T. M., Darling, C. M., Schaeffer, L. M., & **Barg-Walkow, L. H.** (2016). Online collaboration applications evaluated by ease of use. *Ergonomics in Design*.

**Barg-Walkow, L. H.**, & Rogers, W. A. (2016). The effect of incorrect reliability information on expectations, perceptions, and use of automation. *Human Factors*, 58(2), 242-260. **Winner of the 2016-17 Georgia Institute of Technology Psychology Department's Best Student Publication.**

Tossell, C. C., Kortum, P., Shepard, C., **Barg-Walkow, L. H.**, Rahmati, A., & Zhong, L. (2012). A longitudinal study of emoticon use in text messaging from smartphones. *Computers in Human Behavior*, 28(2), 659-663.

---

**BOOK CHAPTERS**

**Barg-Walkow, L. H.**, Fausset, C. B., & Rogers, W. A. (in press). Human factors/ergonomics: Relevance to assessments of everyday functioning. T. D. Marcotte & I. Grant (Eds.), *Neuropsychology of everyday functioning* (2nd ed., pp. XXX-XXX). New York: Guilford Publications.

Mitzner, T. L., McBride, S. E., **Barg-Walkow, L. H.**, & Rogers, W. A. (2013). Self-management of wellness and illness in an aging population. In D. G. Morrow (Ed.), *Reviews of human factors and ergonomics* (Vol. 8, pp. 278-333). Santa Monica: Human Factors and Ergonomics Society.

---

**PROCEEDINGS PUBLICATIONS**

**Barg-Walkow, L. H.**, Foerster, F., & Jones, S. M. (2015). Promoting patient and caregiver engagement during discharge from a healthcare facility. *Proceedings of the Human Factors and Ergonomics Society 2015 Annual Meeting* (pp. 1496-1500). Santa Monica, CA: Human Factors and Ergonomics Society.

**Barg-Walkow, L. H.**, & Rogers, W. A. (2014). Introducing an automated system: Effects on perceptions and use of the system. *Proceedings of the Human Factors and Ergonomics Society 2014 Annual Meeting* (pp. 1501-1505). Santa Monica, CA: Human Factors and Ergonomics Society.

**Barg-Walkow, L. H.**, McBride, S. E., Morgan, M. J., Mitzner, T. L., Clarke, E. N., Bauer, D. T., Knott, C. C., & Rogers, W. A. (2014). Efficacy of a system for tracking and managing osteoarthritis pain for both healthcare providers and older adults. *Proceedings of the 2014 Symposium on Human Factors and Ergonomics in Health Care: Leading the Way* (pp. 108-111). Santa Monica, CA: Human Factors and Ergonomics Society.

**Barg-Walkow, L. H.**, McBride, S. E., Morgan, M. J., Mitzner, T. L., Knott, C. C., & Rogers, W. A. (2013). How do older adults manage osteoarthritis pain? The need for a person-centered disease model. *Proceedings of the Human Factors and Ergonomics Society 2013 Annual Meeting* (pp. 743-747). Santa Monica, CA: Human Factors and Ergonomics Society.

**Barg-Walkow, L. H.**, Walsh, D. R., & Rogers, W. A. (2012). Understanding use errors for medical devices: Analysis of the MAUDE database. *Proceedings of the Human Factors and Ergonomics Society 56<sup>th</sup> Annual Meeting* (pp. 872-876). Santa Monica, CA: Human Factors and Ergonomics Society.

## **TECHNICAL REPORTS**

---

Morey, S. A., **Barg-Walkow, L. H.**, & Rogers, W. A. (2016). *Congestive heart failure assessment and monitoring platform (CHAMP) development: Background review of existing apps*. (HFA-TR-1602). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

**Barg-Walkow, L. H.**, & Rogers, W. A. (2015). *Toward a conceptual model of external interruptions and task outcomes in complex environments* (HFA-TR-1502). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

**Barg-Walkow, L. H.**, Mitzner, T. L., & Rogers, W. A. (2014). *The Technology Experience Profile (TEP): Assessment and Scoring Guide* (HFA-TR-1402). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

McBride, S. E., **Barg-Walkow, L. H.**, Morgan, M. J., Jahant, H. J., Mitzner, T. L., & Rogers, W. A. (2013). *System for tracking and managing pain (STAMP): Findings from Phase I* (HFA-TR-1305). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

McBride, S. E., Morgan, M. J., **Barg-Walkow, L. H.**, Mitzner, T. L., & Rogers, W. A. (2013). *Older adults' knowledge of osteoarthritis and pain management strategies* (HFA-TR-1302). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

Mitzner, T. L., McBride, S. E., **Barg-Walkow, L. H.**, & Rogers, W. A. (2012). *Measures to assess health support needs in adulthood* (HFA-TR-1202). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

Bujak, K. R., Olson, K. E., Burnett, J. S., Olsheski, J. D., Smarr, C.-A., **Barg-Walkow, L. H.**, Darling, C., McDonald, J., & Kazi, S. (2012). *Usability assessment update of the residential, agriculture, commercial, and golf units of <http://www.deere.com>* (HFES/GT-TR-1201). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Ergonomics Society.

## MANUSCRIPTS UNDER REVIEW | IN REVISION | IN PREPARATION

---

**Barg-Walkow, L. H.**, Harrington, C. N., Mitzner, T. L., Hartley, J. Q., & Rogers, W. A. (in revision). Understanding older adults' perceptions of and attitudes toward exergames. *Gerontechnology*.

**Barg-Walkow, L. H.**, & Rogers, W. A. (in prep). Toward a conceptual model of external interruptions and task outcomes in complex environments. *Theoretical Issues in Ergonomics Science*.

## CONFERENCE PRESENTATIONS

---

**Barg-Walkow, L. H.**, & Rogers, W. A. (2017). *Strategies for Multiple Task Coordination in Emergency Departments*. Presented at the 2017 International Symposium on Human Factors and Ergonomics in Health Care, New Orleans, LA.

**Barg-Walkow, L. H.**, & Rogers, W. A. (2016). *Future directions in interruptions research: Understanding task resumption*. Presented at the 2016 International Symposium on Human Factors and Ergonomics in Health Care: Shaping the Future, San Diego, CA.

Rogers, W. A., Harrington, C., **Barg-Walkow, L. H.**, Hartley, J., & Mitzner, T. L. (2015, November). *Designing a quick start guide for Kinect games use by older adults*. Presented at the Gerontological Society of America 68th Annual Meeting, Orlando, FL.

**Barg-Walkow, L. H.**, Foerster, F., & Jones, S. M. (2015, October). *Promoting patient and caregiver engagement during discharge from a healthcare facility*. Presented at the Human Factors and Ergonomics Society 2015 International Annual Meeting, Los Angeles, CA.

**Barg-Walkow, L. H.**, & Rogers, W. A. (2014, October). *Introducing an automated system: Effects on perceptions and use of the system*. Presented at the Human Factors and Ergonomics Society 2014 International Annual Meeting, Chicago, IL.

Chang, E. Y., **Barg-Walkow, L. H.**, & Rogers, W. A. (2014, April). *Understanding how expectations impact perceived reliability of automation*. Presented at the 9th Annual Undergraduate Research Spring Symposium, Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H.** (2014, April). *Strategies for dealing with interruptions: The effect of skills*. Presented at the Conference on Strategies in Human Technical Systems, Atlanta, GA.

**Barg-Walkow, L. H.**, McBride, S. E., Morgan, M. J., Mitzner, T. L., Clarke, E. N., Bauer, D. T., Knott, C. C., & Rogers, W. A. (2014, April). *A system for tracking and managing older adults' osteoarthritis pain*. Presented at the Cognitive Aging Conference, Atlanta, GA.

**Barg-Walkow, L. H.**, McBride, S. E., Morgan, M. J., Mitzner, T. L., Clarke, E. N., Bauer, D. T., Knott, C. C., & Rogers, W. A. (2014, March). *Efficacy of a system for tracking and managing osteoarthritis pain for both healthcare providers and older adults*. Presented at the 2014 Symposium on Human Factors and Ergonomics in Health Care: Leading the Way, Chicago, IL.

**Barg-Walkow, L. H.**, McBride, S. E., Morgan, M. J., Mitzner, T. L., Knott, C. C., & Rogers, W. A. (2013, October). *How do older adults manage osteoarthritis pain? The need for a person-centered disease model*. Presented at the Human Factors and Ergonomics Society 2013 International Annual Meeting, San Diego, CA.

**Barg-Walkow, L. H.,** McBride, S. E., Beer, J. M., Mitzner, T. L., & Rogers, W. A. (2013, March). *Understanding home healthcare providers' challenges in providing task education*. Presented at the International Symposium on Human Factors and Ergonomics in Health Care: Advancing the Cause, Baltimore, MD.

**Barg-Walkow, L. H.,** Walsh, D. R., & Rogers, W. A. (2012, October). *Understanding use errors for medical devices: Analysis of the MAUDE database*. Presented at the Human Factors and Ergonomics Society 56<sup>th</sup> Annual Meeting, Boston, MA.

McBride, S. E., **Barg-Walkow, L. H.,** Mitzner, T. L., & Rogers, W. A. (2012, April). *A framework to understand adults' health support needs*. Presented at the Cognitive Aging Conference, Atlanta, GA.

**Barg-Walkow, L. H.,** Tossell, C. C., & Kortum, P. T. (2011, April). *Smartphone emoticon usage*. Presented at the Texas Regional Human Factors and Ergonomics Society Conference, Houston, TX.

Klouda, L., Hacker, M. C., **Barg-Walkow, L. H.,** Kretlow, J. D., & Mikos, A. G. (2008, December). *Development of novel thermally responsive, in situ crosslinkable hydrogels for tissue engineering*. Presented at the MRS Fall Meeting, Boston, MA.

Klouda, L., Hacker, M. C., **Barg-Walkow, L. H.,** Kretlow, J. D., & Mikos, A. G. (2008, November). *Cytocompatibility evaluation of novel thermoresponsive and chemically crosslinkable macromers for injectable, in situ forming hydrogels*. Presented at the Annual AIChE Meeting and Centennial Celebration, Philadelphia, PA.

#### **COLLOQUIA | BROWN BAGS | PANELS | WORKSHOPS**

---

**Barg-Walkow, L. H.** (2015, November). *Interruptions and task resumption*. Engineering Psychology Colloquium Series, School of Psychology, Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H.** (2015, September). *External interruptions: Definition, conceptual model, and future directions*. Cognitive Aging Brown Bag Seminar Series, Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H.** (2015, January). *Using the System Usability Scale*. Engineering Psychology Colloquium Series, School of Psychology, Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H.** & Prakash, A. (2014, October). *Human Factors and Aging Research*. IPaT Living Labs Seminar, Institute for People and Technology (IPaT), Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H.** (2014, September). *Internship experience at Google*. Engineering Psychology Colloquium Series, School of Psychology, Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H.** (2014, April). *Skills, errors, and interruptions*. Engineering Psychology Colloquium Series, School of Psychology, Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H.** (2014, March). *A system for tracking and managing older adults' osteoarthritis pain*. Cognitive Aging Brown Bag Seminar Series, Georgia Institute of Technology, Atlanta, GA.

**Barg-Walkow, L. H., & McBride, S. E.** (2013, October). *User-centered design: Developing a system for tracking and managing pain*. GVU Brown Bag Seminar Series, Graphics, Visualization & Usability Center, Georgia Institute of Technology, Atlanta, GA.

Invited Panel Participant. *Reading Complexity: The 2013 First-Year Reading Program* (2013, September). Georgia Institute of Technology Family Weekend; Atlanta, GA.

**Barg-Walkow, L. H.** (2012, November). *Understanding the role of expectations on human responses to automation*. Engineering Psychology Colloquium Series, School of Psychology, Georgia Institute of Technology, Atlanta, GA.

Mitzner, T. L., McBride, S. E., **Barg-Walkow, L. H.**, & Rogers, W. A. (2011, October). *HUMANA personal wellness project: Understanding health support needs in adulthood*. 2011 GVU Demonstration Days, Georgia Institute of Technology, Atlanta, GA.

## **HONORS AND AWARDS**

---

### **Georgia Institute of Technology Psychology Department's Best Student Publication** 2017

- Granted to the top graduate student publication in the department for 2016-2017 for Barg-Walkow, L. H., & Rogers, W. A. (2016). The effect of incorrect reliability information on expectations, perceptions, and use of automation. *Human Factors*, 58(2), 242-260.

### **American Psychological Association Dissertation Research Award** 2016

- Granted to assist science-oriented doctoral students of psychology with research costs
- Award: \$1,000

### **Georgia Institute of Technology GVU Travel Award** 2013, 2016

- Award: \$300 for domestic travel to attend a conference

### **Foley Scholar Finalist** 2014, 2015

- 1 of 8 finalists for Foley Scholar, the highest academic honor for the GVU Center at Georgia Tech
- Recognizes innovative research in shaping technology for a broad range of challenges in modern society on the basis of students' "personal vision, brilliance, and potential impact"

### **Georgia Institute of Technology President's Fellowship** 2011 – 2015

- Granted to doctoral students with exemplary levels of scholarship and innovation
- Award: \$5,500 per year

### **George Health Systems Fellow** 2014

- Recognizes leadership, commitment to healthcare, and academic success through the Health Systems Institute at Georgia Tech and Emory University
- Award: \$3,000

### **Human Factors & Ergonomics Society (HFES) Student Member with Honors** 2013

- Honors students who have made an outstanding contribution to the discipline and HFES during their tenure as a student; equivalent to being selected as a Fellow at the student level

### **National Science Foundation Graduate Research Fellowship Program Honorable Mention** 2013

- Recognizes outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines

**National Collegiate Inventors & Innovators Alliance's Annual BMESTart Competition** 2011  
**2<sup>nd</sup> place**

- National competition for undergraduate excellence in biomedical innovation
- Competed as part of an interdisciplinary capstone senior design team which created a portable, low-cost device using spectroscopy for diagnosing anemia in resource-poor settings
- Award: \$5,000

**Beyond Traditional Borders' National Undergraduate Global Health Technologies Design Competition, Semifinalist** 2011

- National competition for undergraduate healthcare technologies for the developing world
- Competed as part of an interdisciplinary capstone senior design team which created a portable, low-cost device using spectroscopy for diagnosing anemia in resource-poor settings

**Wiess College Service Award** 2011

- Awarded to six graduating seniors for outstanding service to Wiess College of Rice University

**Rice Alliance-Brown School of Engineering Senior Design Elevator Pitch Competition** 2010  
**Social Ventures Track Winner**

- Institutional product pitch competition for engineering capstone senior design teams
- Competed as part of an interdisciplinary capstone senior design team which created a portable, low-cost device using spectroscopy for diagnosing anemia in low-resource settings
- Award: \$400

**Rice University Trustee Distinguished Scholarship** 2007 – 2011

- Awarded to students whose talents distinguish them within the pool of admitted applicants
- Award: \$17,500 per year

**Rice University Undergraduate Summer Research Award** 2009

- Stipend to research mobile computing device use across socioeconomic groups
- Award: \$3,000

**Rice University Century Scholar Research Fellowship** 2007 – 2009

- Awarded to students who demonstrate an aptitude for research
- Matched select incoming freshmen with faculty mentors for a two year period to conduct research
- Award: \$8,000 per year

**RESEARCH ACTIVITIES**

---

**Understanding strategies for multiple task coordination** 2014 – 2017

- Creating a conceptual model of interruptions and their effects on performance; exploring coordination strategies (e.g., task scheduling, task completion, resuming tasks following interruptions)

**Quick-Start Guide for Exergames** 2015 – 2016

- Developing a quick-start guide for exergames, which can improve physical activity and health

**Role of Expectations on Use and Perceptions of an Automated System** 2012 – 2015

- Conducted two studies to investigate the impact of different types of introductions on automation perceptions and use over time

- System for Tracking and Managing Pain** 2012 – 2014
- Investigating important factors that affect osteoarthritis pain, to ultimately result in a system for patients and healthcare providers to track and manage pain
- Evaluation of the Triage Process in an Emergency Department** 2014
- As part of a course, evaluated changes in the triage process—moving towards physician-assisted triage—in a large, public hospital
- Self-Management of Wellness and Illness** 2011 – 2013
- Conducted an extensive literature review to determine factors that affect self-management of health, including developing a framework and pilot testing
- Reduction of Catheter-Associated Urinary Tract Infections** 2013
- As part of a course, investigated methods for reducing catheter-associated urinary tract infections—the most common hospital-acquired infection—in a large, public hospital
- Challenges Facing Home Healthcare Providers** 2011 – 2013
- Assessed professional home health care providers’ difficulties encountered on the job as well as potential human factors interventions, particularly focused on training challenges.
- Use Errors with Medical Devices** 2011 – 2012
- Analyzed the FDA Manufacturer and User Facility Device Experience database using novel methodology to identify characteristics of use errors
- Technology Experience Profile** 2012
- Developed a questionnaire to ascertain the breadth of people’s technology experience across a variety of domains using a shorter form
- Smartphone Emoticon Usage, Rice University** 2008 – 2011
- Conducted research and assisted in experimental design on a longitudinal field assessment of usage of mobile computing devices across socioeconomic groups, focusing on iPhones
- Low-cost Anemia Diagnosis, Rice University** 2010 – 2011
- Worked on an interdisciplinary engineering team as the human factors specialist for a capstone engineering design course; winner of multiple awards at the institute and national levels
  - Created a hemoglobinometer to diagnose anemia in low-resource settings with a usability emphasis

## **TEACHING EXPERIENCE**

---

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

- Applied Experimental Psychology Lab (capstone course for undergraduates) Spring 2016
- Responsible for preparing and delivering lectures and instructional materials, creating and grading assignments, as well as mentoring students on a semester long design project.

### **Instructor, Georgia Institute of Technology**

- Introductory Psychology, Primary instructor: Dr. Diane Leader (team taught) Fall 2014  
*Prepared and taught “Research Methods”, “Sensation and Perception”, and “Social Psychology”*

- Teaching Assistant**, Georgia Institute of Technology
- Applied Experimental Psychology, Dr. Wendy A. Rogers Spring 2014, 15
  - Engineering Psychology, Dr. Anne E. Adams Fall 2013
  - Applied Experimental Psychology, Dr. Tracy L. Mitzner Spring 2013
  - Duties included grading chapter essays, article analyses, exams, and the final course projects, as well as meeting with students to discuss the course. For Applied Experimental Psychology in 2015, duties also included creating a new course project and grading rubric.
- Guest Lecturer**, Georgia Institute of Technology
- “Multitasking and Interruptions”, Psychomotor and Cognitive Skill Learning Fall 2016
  - “Applied Experimental Psychology”, Applied Experimental Psychology Spring 2015
  - “Attention Strategies of Nurses”, Applied Experimental Psychology Spring 2013, 14
  - “Expertise in Dogs”, Applied Experimental Psychology Spring 2013, 14
  - “Design Specifications”, Applied Experimental Psychology (Lab) Spring 2014
  - “Safety & Errors”, Engineering Psychology Spring 2014
  - “User-Centered Design Case Study”, User Interface Design Spring 2014
  - “Social Psychology”, Introductory Psychology Summer 2013
  - “Schizophrenia”, Abnormal Psychology Summer 2013
  - “Shift Work and Fatigue”, Engineering Psychology Fall 2012
- Junior Instructor**, Bundesgymnasium GRG 19, Vienna, Austria Spring 2010
- Co-Instructor with—and mentored by—Manfred Zniva, 9<sup>th</sup> grade Biology
  - Duties included determining course materials and preparing lectures
  - Responsible for teaching half a class period, conducted in both English and German
- Native Language Teaching Assistant**, Bundesgymnasium GRG 19, Vienna, Austria Spring 2010
- Assistant to Karin Eberman and Carolyn Oliva (English-multiple grades); Dr. Christoph Luef (Chemistry-10<sup>th</sup> grade)
  - Duties included preparing lectures and informal presentations as well as conducting small group meetings to enhance English language abilities on a variety of topics

## PROFESSIONAL SERVICE AND EXPERIENCE

---

- Webmaster** – HFES Health Care Technical Group 2015 – Present
- Webmaster** – Human Factors and Aging Laboratory; CREATE Center 2012 – Present
- Responsible for the content development, management, and maintenance of the websites <[hfaging.org](http://hfaging.org)>, <[create-center.org](http://create-center.org)>
- Reviewer**
- Judge for the HFES Health Care Student Design Competition 2016
  - Human Factors and Ergonomics Society (HFES) Annual Conference 2013 – 2016
  - IEEE International Symposium on Robot and Human Interactive Communication 2016
  - PervasiveHealth Conference on Pervasive Computing Technologies for Healthcare 2015
  - Journal of Experimental Psychology: Applied (Student Reviewer) 2012 – 2013
- Secretary** – HFES Georgia Tech Student Chapter 2014 – 2015
- Co-President** – HFES Georgia Tech Student Chapter 2012 – 2014
- Awarded Outstanding Student Chapter – Gold Level (highest level) both terms 2013, 2014

## Usability Assessment/Consulting

- Web Tools Team Member** – CREATE Center; HFES/GT Chapter 2013 – 2015
- Member of a team evaluating existing web tools for a variety of functions.
- Website Usability Project Leader** – CREATE Center; HFES/GT Chapter 2012 – 2013
- Project leader and usability advisor for update and overhaul of the CREATE Center website <[create-center.org](http://create-center.org)>. Advising web content organization and web usability standards
- Contributor/Consultant** – Leading Women Project 2011 – 2013
- Identify news articles and edit blogs relevant to empowering women as leaders
  - Improved survey design using psychological research method principles
- Kiosk Usability Team Member** – Usable Health; HFES/GT Chapter 2011 – 2012
- Assisted with a cognitive walkthrough of Usable Health Ordering Kiosk
- Website Usability Team Member** – John Deere & Company; HFES/GT Chapter 2011 – 2012
- Member in multi-disciplinary team conducting usability analysis of John Deere & Company website ([http://www.deere.com/en\\_US/deerecom/usa\\_canada.html](http://www.deere.com/en_US/deerecom/usa_canada.html)). Final written report was submitted to a Deere & Company representative

- Conference Coordinator** – Cognitive Aging Conference 2011 – 2012
- Worked with vendors and hotel personnel to plan details and logistics of the 550-person conference
  - Organized abstracts; responsible for composition and printing of program and abstract books
  - Coordinated with a workshop and an honorary event co-occurring with the conference
  - Managed student volunteers in hosting conference, staffing the registration booth, assisting during poster and plenary sessions

- Education Outreach Volunteer** – HFES Georgia Tech Student Chapter 2011 – 2017
- Organized, obtained funding, and participated in an outreach event on human factors education and interactive demonstrations at the 2014 Atlanta Science Festival
  - Volunteered in human factors education and interactive demonstrations for the annual Fernbank Natural History Museum's Science at Hand Day

- Mentor/Big Sister** – Big Brothers Big Sisters Atlanta Chapter 2014 – 2015
- Built and maintained a dependable and positive influence as role model to a child

- Society of Academic Mentors** –Rice University 2009 – 2011
- Led group review sessions and one-on-one tutoring for undergraduates
  - Selected from upperclassmen who have: proven academic achievement, college citizenship, interest in academic life of their college, and demonstrate a willingness to help fellow students

- External Vice President** – Wiess College, Rice University 2009 – 2011
- Organized events and led communications for students and over one hundred Rice faculty and staff members, with the goal of facilitating student-community interactions
  - Planned and executed three 300-person dinners, including doubling faculty participation

## MEMBERSHIPS

---

- Human Factors and Ergonomics Society (HFES), Student Member** 2011 – Present
- Health Care Technical Group
  - Webmaster, 2015 – Present
  - Training Technical Group

- Human Factors and Ergonomics Society GT Student Chapter, Member** 2011 – 2017  
 Secretary, 2014 – 2015  
 Co-President, 2012 – 2013 & 2013 – 2014: Awarded Outstanding Student Chapter (Gold) both terms
- American Psychological Association, Member** 2013 – Present  
 Division 21 – Applied Experimental and Engineering Psychology
- Psi Chi, National Honor Society in Psychology** 2009 – Present
- Association for Computing Machinery (ACM), Student Member** 2012  
 Special Interest Group: Computer-Human Interaction (SIGCHI)

## GRADUATE COURSEWORK

---

### Engineering Psychology (Human Factors):

- Analysis Techniques
- Cognitive Ergonomics
- Controls & Workspace Layout
- Displays
- Stressors

### Seminars:

- Academic Writing
- Psychomotor & Cognitive Skills Learning
- Signal Detection Theory
- Strategies

### Quantitative:

- Research Methods
- Statistics I (ANOVA)
- Statistics II (Multiple Regression)

### General Psychology:

- Biopsychology
- Cognitive Psychology
- Sensation & Perception
- Social Psychology
- Teaching Practicum

### Minor - “Interdisciplinary Research and Design for Healthcare Systems”:

- Clinical Operational Design Experience in Emergency Departments  
*(Biomedical Engineering)*
- Healthcare Design of the Future  
*(Industrial Design)*
- Operations Research in Medicine & Healthcare  
*(Industrial & Systems Engineering)*

## REFERENCES

---

### Wendy A. Rogers, Ph.D., CHFP

Georgia Institute of Technology  
 School of Psychology  
 654 Cherry Street  
 Atlanta, GA 30332-0170  
 wendy@gatech.edu

### Francis T. Durso, Ph.D.

Georgia Institute of Technology  
 School of Psychology  
 654 Cherry Street  
 Atlanta, GA 30332-0170  
 frank.durso@gatech.edu

### Peter A. Doyle, Ph.D., CHFP

Johns Hopkins Hospital  
 600 N Wolfe Street  
 Baltimore, MD 21287  
 pdoyle6@jhmi.edu

### Aideen J. Stronge, Ph.D.

Google, Inc.  
 747 6th Street South  
 Kirkland, WA 98033  
 astronge@google.com