

# RACHEL E. STUCK

## CURRICULUM VITAE

Georgia Institute of Technology  
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### EDUCATION

**B.A. Experimental Psychology**, University of South Carolina, SC (2013-2015)

*Magna Cum Laude*

**B.S. Hospitality Management**, University of South Carolina, SC (2007-2011)

*Magna Cum Laude*

### RESEARCH EXPERIENCE

- ◆ **Research Assistant**, Georgia Tech, Human Factors and Aging Laboratory  
August 2015-Now [hfaging.gatech.edu](http://hfaging.gatech.edu)
- ◆ **Research Assistant & Outreach Director**, USC, Assistive Robotics and Technology Lab  
January 2014-June 2015 [artlab.cse.sc.edu](http://artlab.cse.sc.edu)

### RESEARCH PROJECTS-Georgia Institute of Technology

- ◆ **Tellewellness Needs Assessment**- RERC TechSage Team Project, in collaboration with the University of South Carolina. The focus of project is to gain insight into the attitudes and acceptance of telewellness technology by older adults with disability. Project Leader- Tracy L. Mitzner, PhD
  - Assisted with data entry
  - Helped with the development of the coding scheme
- ◆ **Understanding Older Adult and Care Provider Relationships**-The focus of this project is to understand dimensions of trust in older adult and care providers, both human and robot. Student Project Leader-Rachel Stuck.
  - Developed project study materials
  - Developed IRB submission
- ◆ **PRISM 2.0**- The focus of this project is to develop software to promote social connectedness in older adults.
  - Assisted in the development of a socializing category for the software

### RESEARCH PROJECTS-University of South Carolina

- ◆ **Fall Risk Assessment**- The focus of this project is on using Kinect sensors to detect and prevent falls in older adults. Student project leader- Xian Wu
  - Literature review on fall risk assessment scales
  - Collaborated on design methodology
- ◆ **Ms. An, the Robot Teach Assistant**- The focus of this project is to use the NAO robot to assist in teaching and learning for K-12 students. Student project leader- Karina Liles
  - Developed participant contact forms
  - Tested the programming to help find glitches
  - Assisted with methodology development
- ◆ **Social Connectedness**- The focus of this project is to conceptualize social connectedness and technology interventions for persons with disability. Student lead researcher- Rachel Stuck
  - Collected relevant articles
  - Developed draft of a technical report

- ◆ **Tellewellness Needs Assessment-** RERC TechSage Team Project, in collaboration with Georgia Tech. The focus of project is to gain insight into the attitudes and acceptance of telewellness technology by older adults with disability. Project Leader- Jenay Beer, PhD
  - Worked on development of focus group script
  - Drafted IRB proposal
  - Assisted with development of demonstration videos
  - Conducting individual interviews to collect data
- ◆ **Beam Smart Presence for CCRC employees-**This focus of this project is to explore the possibilities of the Beam used by CCRC employees, and what requirements are needed for it to be acceptable in a CCRC community. Student Project Leader- Karina Liles
  - Assisted with methodology development
  - Recruited CCRC's employees to participate in the study
  - Developed facility and participant contact forms
  - Helped collect data

## JOURNAL PUBLICATIONS

Beer, J. M., Mitzner, T.L., **Stuck, R.E.**, & Rogers, W.A. (In press). Design considerations for technology interventions to support social and physical wellness for older adults with disability. *International Journal of Automation and Smart Technology (AUSMT)*.

## CONFERENCE PROCEEDINGS

- Wu, X., **Stuck, R.E.**, Mitner, T. L., Rogers, W. A., & Beer, J. M. (Accepted). Televideo for older adults with mobility impairment: a needs assessment. *Proceedings of the RESNA/NCART 2016 Conference*.
- Liles K., Kacmar, A., **Stuck, R. E.**, & Beer, J. M., (2015). Smart Presence for Retirement Community Employees. *Proceedings of the Tenth Annual ACM/IEEE International Conference on Human-Robot Interaction Extended Abstracts* (pp. 85-86). ACM.
- Wu, X., **Stuck, R. E.**, & Rekleitis, I., & Beer, J. M., (2015). Towards a Human Factors Model for Underwater Robotics. *Proceedings of the Tenth Annual ACM/IEEE International Conference on Human-Robot Interaction Extended Abstracts* (pp. 159-160). ACM.
- Liles, K. R., **Stuck, R. E.**, Kacmar, A. A., & Beer, J. M. (2015). Understanding retirement community employee's perceived benefits and concerns of smart presence technology. *Proceedings of the Human Factors and Ergonomics Society 59th Annual Meeting*.
- Wu, X., **Stuck, R. E.**, Rekleitis, I. & Beer, J. M. (2015). Towards a framework for human factors in underwater robotics. *Proceedings of the Human Factors and Ergonomics Society 59th Annual Meeting*.
- Liles, K. R., Kacmar, A. A., **Stuck, R. E.**, Beer, J. M. (2015). Smart presence for retirement community employees. *Proceedings of the Tenth ACM/IEEE International Conference on Human-Robot Interaction [Late Breaking Report]*, 85-86.
- Wu, X., **Stuck, R. E.**, Rekleitis, I., & Beer, J. M. (2015). Towards a human factors model for underwater robotics. *Proceedings of the 10th ACM/IEEE International Conference on Human-Robot Interaction [Late Breaking Report]*, 159-160.
- Liles, K. R., **Stuck, R. E.**, Kacmar, A. A., & Beer, J. M. (2015). Use Cases of Smart Presence for Retirement Communities. *Human Aspects of IT for the Aged Population. Design for Everyday Life* (pp. 446-455). Springer International Publishing.

**CONFERENCE PRESENTATIONS**

- Stuck, R. E.,** Chong, W. L., Mitner, T. L., & Rogers, W. A. (Accepted). *Human factors analysis of medication management apps*. Gerontological Society of America (GSA) 69th Annual Scientific Meeting, New Orleans, LA.
- Mitner, T.L., Hartley, J., **Stuck, R. E.,** Chan, L., Beer, J. M., & Rogers, W. A. (Submitted) *"Being there": attitudes about televideo technology for adults aging with mobility impairment*. Gerontological Society of America (GSA) 69th Annual Scientific Meeting, New Orleans, LA.
- Mitner, T.L., **Stuck, R. E.,** Hartley, J., Chan, L., Beer, J. M., & Rogers, W. A. (Accepted). *Televideo technology: benefits and barriers perceived by older adults with a mobility impairment*. ISGs 10th World Conference on Gerontechnology, Nice, France.
- Wu, X., **Stuck, R. E.,** Mitner, T. L., Rogers, W. A., & Beer, J. M. (November 2015). *Needs assessment for telewellness technologies among older adults with mobility impairment*. Gerontological Society of America (GSA) 68th Annual Scientific Meeting, Orlando, FL.
- Liles, K. R., **Stuck, R. E.,** Kacmar, A. A., & Beer, J. M. (November 2015). *Exploring the potential uses of smart presence technology in retirement communities*. Gerontological Society of America (GSA) 68th Annual Scientific Meeting, Orlando, FL.
- Wu, X., **Stuck, R.E.,** & Beer, J. M. (2014, September). Fall Risk Assessment. Poster presented at USC Department of Computer Science and Engineering Annual Computing Research Symposium.

**TECHNICAL REPORTS**

- Stuck, R.E.,** & Beer, J. M. (2014). *Evaluation of Balance Tests for Older Adults*. (ART-TR-1401). Columbia, SC: University of South Carolina, Assistive Robotics and Technology Lab.
- Liles, K., Kacmar, A., **Stuck, R. E.,** & Beer, J. M. (2014). *Exploring the Potential of Smart Presence for Retirement Community Employees*. (ART-TR-1402). Columbia, SC: University of South Carolina, Assistive Robotics and Technology Lab.

**MEMBERSHIPS**

- Human Factors and Ergonomic Society** – Student Member (2015-current)
- Human Factors and Ergonomic Society GT Student Chapter** –Member (2015-current)

**CERTIFICATIONS, TRAINING AND WORKSHOPS**

- Universal Design and Visitability Workshop-** University of South Carolina (April 2015)

**GRADUATE COURSEWORK****Psychology:**

Engineering Psychology I  
 Engineering Psychology II  
 Sensation & Perception  
 Research Methods  
 Psychomotor & Cognition Skills (In Progress)

**Quantitative:**

Statistical Analysis I  
 Statistical Analysis II

**Robotics:**

Introduction to Robotics Research (In Progress)