

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

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## OBJECTIVE

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To utilize knowledge and skills in applied medical human factors towards improving hospital operations

## QUALIFICATIONS

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- Extensive experience conducting research projects in healthcare settings, including designing medical devices, iteratively testing interfaces, and improving work processes
- Experience evaluating, redesigning, and implementing medical device training materials
- Experience working on multi-disciplinary teams in healthcare environments
- Application and knowledge of usability principles and practices
- Excellent experimental design and statistical analysis skills
- Very effective at expressing information in written and oral form
- Skilled at using computer productivity software (e.g., Microsoft Office products, SPSS)

## EDUCATION

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- Georgia Institute of Technology**, Atlanta, GA
- Ph.D. in Engineering Psychology (Spring 2017) 2013 – 2017  
Dissertation: Emergency physicians' strategies for multiple task coordination  
Minor: Interdisciplinary Research and Design for Healthcare Systems
- M.S. in Engineering Psychology (Fall 2013) 2011 – 2013
- Rice University**, Houston, TX
- B.A. in Psychology; minor in Global Health Technologies 2007 – 2011

## EXPERIENCE

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- Human Factors and Aging Laboratory – Georgia Tech**, Graduate Research Assistant 2011 – 2017
- Major duties include: design experiments, test participants, conduct literature reviews, code and analyze data, and prepare and present findings in written and oral form
- Johns Hopkins Hospital**, Human Factors Engineering Intern Summer 2015
- Evaluated medical devices and training materials, collected usability and safety data, and provided short and long-term recommendations for improving processes throughout the hospital
  - Worked with nursing leadership, patient safety officers, clinical engineers, surgeons, and device vendors
- Google**, User Experience Research Intern Summer 2014
- Conducted user experience research for DoubleClick Search, DoubleClick Bid Manager. Led a project to redesign a user interface for DoubleClick Bid Manager.
  - Methods included: surveys, interviews, and developing of personas for usability testing
- Human Factors & Ergonomics Society - Georgia Tech Student Chapter**, Co-President 2012 – 2014
- Awarded Outstanding Student Chapter Award – Gold Level in 2013 and 2014
- Human Interfaces**, Research Intern Summer 2010
- Researched, designed a survey, and performed analyses on initial user experiences with new laptops
  - Created presentations for presenting the company's findings to clients
- Beyond Traditional Borders Program – Rice University**, Intern Summer 2009
- Created human factors educational materials to be used for undergraduate engineering education
  - Assisted in building, assessing, and optimizing devices (e.g., oxygen concentration sensor, diagnostic lab-in-a-backpack, novel filter paper hemoglobinometer), which were implemented in developing countries

## SELECTED HONORS AND AWARDS

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### National/International:

- American Psychological Association Dissertation Research Award 2016
- Human Factors & Ergonomics Society (HFES) Student Member with Honors 2013
- Honorable Mention, National Science Foundation Graduate Research Fellowship 2013
- 2<sup>nd</sup> place, National Collegiate Inventors & Innovators Alliance's Annual BME-Start Competition for undergraduate excellence in biomedical innovation 2011
- Semifinalist, Beyond Traditional Borders' National Undergraduate Global Health Technologies Design Competition 2011

### Georgia Institute of Technology:

- Foley Scholar Finalist – highest honors in human-computer interaction 2014 and 2015
- President's Fellowship 2011 – 2015
- George Health Systems Fellow (joint with Emory University) 2014

## SELECTED PUBLICATIONS

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- Barg-Walkow, L. H.**, Fausset, C. B., & Rogers, W. A. (in press). Human factors and ergonomics: Relevance to neuropsychology assessments of everyday functioning. T. D. Marcotte & I. Grant (Eds.), *Neuropsychology of everyday functioning* (2nd ed.).
- 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.
- Barg-Walkow, L. H.**, Foerster, F., & Jones, S. M. (2015). Promoting patient engagement during discharge from a healthcare facility. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (pp. 1496-1500). 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.
- 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: HFES.
- 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.

## REFERENCES

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