

Georgia Institute of Technology  
College of Computing  
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## Research Interests

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I study how mobile interfaces may be designed to address the changing needs and priorities of users. My research examines the ability for mobile tools, designed for breast cancer patients, to adapt as patients progress in their cancer journey. I am particularly interested in understanding the ability for adaptive interfaces to influence patients' cancer management in the home, and the influence of these systems on patient engagement and quality of life.

## Education

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2012-present **Georgia Institute of Technology**, Atlanta, GA  
PhD Student, Human-Centered Computing  
3<sup>rd</sup> year completing May 2017  
Advisor: Professor Elizabeth Mynatt

2005-2010 **University of Wisconsin-Madison**, Madison, WI  
B.S. Industrial Engineering  
GPA: 3.7/4.0

## Publications

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Peer-Reviewed **Jacobs, M.**, Cramer, H., Barkhuus, L. "Caring About Sharing: Couples' Practices in Single User Conference Device Access." ACM conference on Supporting Groupwork (Group 2016). Sanibel Island, Florida. 13-16 Nov 2016. (30% acceptance rate).

**Jacobs, M.**, Clawson, J., Mynatt, E.D. "A Cancer Journey Framework: Guiding the Design of Holistic Health Technology." 10th EAI International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health 2016). Cancun, Mexico. 16-19 May 2016. (34.8% acceptance rate).

**Jacobs, M.**, Clawson, J., Mynatt, E.D. "Lessons Learned From a Yearlong Deployment of Customizable Breast Cancer Tablet Computers," Proceedings of the ACM conference on Wireless Health (WH '15). Bethesda, MD. 14-16 Oct 2015. (33% acceptance rate).

Cramer, H. **Jacobs, M.**, "Couples' Communication Channels: What, When & Why?" Proceedings of the ACM conference on Human Factors in Computing Systems (CHI 2015). Seoul, Korea. 18-23 Apr 2015. (23% acceptance rate)

**Jacobs, M.**, Clawson, J., Mynatt, E.D. "Comparing Health Information Sharing Preferences of Cancer Patients, Doctors, and Navigators," Proceedings of the ACM conference on Computer Supported Cooperative Work (CSCW 2015). Vancouver, BC, Canada. 14-18 Mar 2015. (28.3% acceptance rate).

Khanipour Roshan, P., **Jacobs, M.**, Dye, M., and DiSalvo, B. “Exploring How Parents in Economically Depressed Communities Access Learning Resources,” ACM conference on Supporting Groupwork (Group 2014). Sanibel Island, Florida. 9-12 Nov 2014. (33% acceptance rate).

**Jacobs, M.**, Clawson, J., Mynatt, E.D. “My Journey Compass: A Preliminary Investigation of a Mobile Tool for Cancer Patients,” Proceedings of the ACM conference on Human Factors in Computing Systems (CHI 2014). Toronto, Canada. 26 Apr – 1 May 2014. (22% acceptance rate). *Best paper honorable mention.*

**Jacobs, M.**, Clawson, J., Mynatt, E.D. “Cancer Navigation: Opportunities and Challenges for Facilitating the Breast Cancer Journey,” Proceedings of the ACM conference on Computer Supported Cooperative Work (CSCW 2014), Baltimore, MD. 15-19 Feb 2014. (27% acceptance rate).

Workshop Papers Macleod, H., **Jacobs, M.**, Siek, K., Connelly, K., Mynatt, E.D. “Ethical Considerations in Pervasive Health Research,” Pervasive Health 2016 Workshop on the Future of Pervasive Health. Cancun, Mexico. 16 May 2016.

**Jacobs, M.**, Clawson, J., Mynatt, E.D. “Research Highlight: Lessons Learned From a Yearlong Deployment of Customizable Breast Cancer Tablet Computers.” *CHI 2016 Workshop on Interactive Systems in Healthcare (WISH 2016)*. San Jose, CA. 7 May 2016.

**Jacobs, M.**, Clawson, J., and Mynatt, E. “Examining Proactive Health through a Health Journey Lens,” *CSCW 2015 Workshop on Moving Beyond e-Health and the Quantified Self*. Vancouver, Canada, 2015.

Clawson, J., **Jacobs, M.**, and Mynatt, E. “Transitioning through Cancer: Supporting the Cancer Journey from Diagnosis to Survivorship,” *CHI 2014 Workshop on Designing Technology for Major Life Events*. Toronto, Canada. 2014.

**Jacobs M.**, Clawson, J., Mynatt, E.D “Perceptions of Breast Cancer Navigation from Survivors and Oncologists,” *AMIA 2013 Workshop on Interactive Systems in Healthcare (WISH 2013)*. Washington, DC. 16 Nov 2013.

Research Poster **Jacobs, M.**, Clawson, J., Mynatt, E.D. “Cancer Compass: Examining Personal Health Record Usage Among Breast Cancer Survivors,” 7th EAI International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health 2013). Venice, Italy. 5-8 May 2013. (30% acceptance rate)

## Honors and Awards

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- 2015 Foley Scholar Award Finalist
- 2014 Best Paper Award (top 5% of submissions), CHI 2014
- 2014 1st Place for Community Impact, Georgia Tech Convergence Innovation Competition
- 2014 National Science Foundation Graduate Research Fellowship Program, Honorable Mention

## Teaching

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- Summer 2015 **User Interface Design** (undergraduate, 35 students), College of Computing, Georgia Tech.  
Instructor on Record.
- Spring 2015 **Issues in Human-Centered Computing** (PhD, 12 students), College of Computing, Georgia Tech.  
Teaching Assistant for Dr. Elizabeth Mynatt.
- Summer 2013 **User Interface Design** (undergraduate, 27 students), College of Computing, Georgia Tech.  
Teaching Assistant and Guest Lecturer for Matthew Bonner.

## Industry Experience

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- Summer 2014 **Yahoo**, Sunnyvale, CA  
Research Intern  
(mentor: Henriette Cramer)  
Explored attitudes and behaviors of colocated couples in the context of sharing and coordination through the use of qualitative interviews focused on couples' shared accounts and technologies.
- September 2010–  
June 2012 **Accenture**, Chicago, IL  
User Experience Specialist  
Responsibilities included: determining the current state processes and future state requirements for a health insurance contract setup application, developing high fidelity prototypes of the future state application, usability analysis, and managing a team of three business analysts in the creation of user experience deliverables.

## Prior Research Experience

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- August 2012–  
August 2013 **Cross Cultural Study of Parents' Use of Online Resources**  
Advised By: Elizabeth Disalvo, Georgia Institute of Technology  
Examined how parents and guardians use technology in their daily lives and what role technology plays in their children's education. This information will help in developing future educational tools designed for parents.
- September 2009–  
May 2010 **Raise the Floor**  
Advised by: Gregg Vanderheiden, TRACE Center, University of Wisconsin-Madison  
Worked on research and development of accessible technologies. Facilitated the development of the Raise the Floor initiative, improving web accessibility for people with disabilities
- September 2009–  
May 2010 **Home Health System Analysis**  
Advised by: Patricia Brennan, Health Systems Lab, University of Wisconsin-Madison  
Analyzed the benefits and deficiencies of an internet-based home health system deployed to cardiac patients.
- September 2006–  
May 2007 **Embodied Cognition**  
Advised by: Arthur Glenberg, University of Wisconsin-Madison  
Investigated the relationship between language and action. Participated in the 2007 Undergraduate Research Symposium.

## Research Activities

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- Workshops attended Workshop on Moving Beyond e-Health and the Quantified Self, CSCW 2015  
Workshop on Interactive Systems in Healthcare, AMIA 2012, 2013, 2014  
Workshop on Designing Technology for Major Life Events, CHI 2014
- Doctoral consortia ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) Doctoral School. Osaka, Japan, 2015.
- American Medical Informatics Association (AMIA) Doctoral Consortium. Washington DC, 2014.

## Service

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- 2012-Present Graduate Student Council Travel Committee Lead, College of Computing, Georgia Tech
- Conference AMIA 2015, 2016  
Reviewing CHI 2014, 2015, 2016  
CSCW 2015, 2016  
JAMIA Special Issue 2015