

Maia L. Jacobs

PhD Candidate, Human Centered Computing
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Research Interests

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

- 2012–Present **Georgia Institute of Technology**, Atlanta, GA.
PhD Candidate, Human Centered Computing
Advisor: Elizabeth Mynatt
- 2005–2010 **University of Wisconsin-Madison**, Madison, WI.
Bachelor of Science, Industrial and Systems Engineering; GPA: 3.7/4.0

Publications

- Conference Publications (Peer-Reviewed) **Jacobs, M.**, Cramer, H., Barkhuus, L. "Caring About Sharing: Couples' Practices in Single User 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).

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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).

Journal Publications (Peer-Reviewed) **Jacobs, M.**, Clawson, J., Mynatt, E.D. "Articulating a Patient-Centered Design Space for Cancer Journeys," *EAI Endorsed Transactions Special Issue on Pervasive Health 2016*. 2017.(accepted for publication).

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 Posters **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

- 2016 Georgia Tech Foley Scholar Award Recipient
- 2015 Georgia Tech Foley Scholar Award Finalist
- 2014 Best Paper Honorable Mention (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

Presentations

Invited Talks Mynatt, E.D., Jacobs, M. Creating interactive models of healthcare journeys to improve patient-centered care and patient engagement. NIH/NCI HCIRB Grantee Cyber-Seminar Series. May 25, 2016.

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Jacobs, M. Patient Engagement Panel. Healthcare Information and Management Systems Society (HiMSS) conference and exhibition. September 26, 2013.

Other Research Activities

- Doctoral Consortia ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubi-Comp) Doctoral School. Osaka, Japan, 2015.
American Medical Informatics Association (AMIA) Doctoral Consortium. Washington DC, 2014.
- Workshops Workshop on Interactive Systems in Healthcare, CHI 2016
Workshop on the Future of Pervasive Health, Pervasive Health 2016
Workshop on Interactive Systems in Healthcare, AMIA 2012, 2013, 2014
Workshop on Designing Technology for Major Life Events, CHI 2014

Teaching

- Summer 2015 **User Interface Design**(undergraduate, 35 students), College of Computing, Georgia Tech. Instructor on Record.
- Spring 2015 **Issues in Human-Centered Computing** (graduate, 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

- Summer 2014 **Yahoo**, Sunnyvale, CA
Research Intern (mentor: Henriette Cramer)
Explored attitudes and behaviors of collocated 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.

Service

- 2012-Present Graduate Student Council Travel Committee Lead, College of Computing, Georgia Tech
- Conference Reviewing AMIA 2015-2016; CHI 2014-2017; CSCW 2015-2017 JAMIA Special Issue 2015

Mentoring

- M.S. Students Aditi Dhar, M.S. Human-Computer Interaction, Georgia Tech (Class of 2017)
Florian Foerster, M.S. Human-Computer Interaction, Georgia Tech (Class of 2015)
- B.S. Students Rahul Singh, B.S. Computer Science, Georgia Tech (Class of 2015)

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