

# Matthew K. Hong

PhD Candidate

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## Research Interests

My research interests lie at the intersection of Human-Computer Interaction and Health Informatics. I design technology to foster communication between the patient, caregiver and clinician.

## Education

- 2014 - Present **PhD, Human-Centered Computing**, Georgia Institute of Technology.  
Advisor: Lauren Wilcox
- 2014 **MHCI, Human-Computer Interaction**, Carnegie Mellon University.
- 2012 **BSc, Cognitive Science**, University of California, San Diego.  
Thesis Advisor: James D. Hollan

## Experience

- Jul 2016 **Health Data Exploration Summer Institute**, Student Participant, San Diego, CA.  
Participated in a one week institute where PhD students receive academic training focusing on personal health data.
- Jan 2014 - Aug 2014 **Boeing-CMU Capstone Project**, Research Lead, Pittsburgh, PA.  
Conducted research and designed new methods to streamline communication on the 737 line at the Boeing Renton factory, improving efficiency and safety. See <http://hciresearch4.hcii.cs.cmu.edu/M-HCI/2014/Boeing/>.
- Oct 2012 - Aug 2013 **Private Consulting**, User Experience Consultant, San Diego, CA.  
Consulted company executives during product development stage for upcoming dental patient record management application. See <http://www.tab32.com/>.  
Consulted Eric Norman (CEO) during product development stage for upcoming smart cooking appliance. Some of the initial UX research efforts that I led influenced early design decisions of the product form factor and app user interface. See <https://cindercooks.com/>.
- Jun 2012 - Sep 2012 **Qualcomm Institute**, Usability Researcher, San Diego, CA.  
Conducted usability studies, designed and evaluated prototype user interface for Schema Builder, an end-user application for clinicians to define custom NLP schemas.
- Jul 2011 - Jun 2012 **University of California, San Diego**, Undergraduate Researcher, San Diego, CA.  
Researched and designed interaction techniques for a hybrid paper-digital desktop workspace.

## Publications

- Refereed Conference Proceedings **Matthew K. Hong**, Clayton Feustel, Meeshu Agnihotri, Max Silverman, Stephen F. Simoneaux, and Lauren Wilcox. Supporting Families in Reviewing and Communicating about Radiology Imaging Studies. *Proceedings of the 35th Annual ACM Conference on Human Factors in Computing Systems (CHI 2017)*, Denver, CO, USA, 2016. (25% acceptance rate)
- Matthew K. Hong**, Lauren Wilcox, Clayton Feustel, Karen Wasilewski-Masker, Thomas A. Olson, and Stephen F. Simoneaux. Adolescent and Caregiver use of a Tethered Personal Health Record System. *Proceedings of the 2016 AMIA Annual Symposium (AMIA 2016)*, Chicago, IL, USA, 2016.
- Matthew K. Hong**, Lauren Wilcox, Daniel Machado, Thomas A. Olson, and Stephen F. Simoneaux. Care Partnerships: Toward Technology to Support Teens' Participation in Their Health Care. *Proceedings of the 34th Annual ACM Conference on Human Factors in Computing Systems (CHI 2016)*, San Jose, CA, USA, 2016. (23.4% acceptance rate)
- Matthew K. Hong**, Anne Marie Piper, Nadir Weibel, Simon Olberding, and James D. Hollan. Microanalysis of Active Reading Behavior to Inform Design of Interactive Desktop Workspaces. *Proceedings of the 2012 ACM International Conference on Interactive Tabletops and Surfaces (ITS 2012)*, Boston, MA, USA, 2012. (29% acceptance rate)
- Refereed Poster/Workshop Proceedings **Matthew K. Hong**, Udaya Lakshmi, and Lauren Wilcox. Just-in-Time Design: In Situ Methods for Capturing and Articulating Adolescents' Illness Experiences. *Workshop on Interactive Systems in Health Care (WISH 2017)*, Washington, DC, USA, 2017.
- Marianne Sharko, Lauren Wilcox, **Matthew K. Hong**, and Jessica S Ancker. The Variation in Patient Portal Access for Adolescents in the United States: How Different Medical Centers Manage their Adolescent Access. *Proceedings of the 2017 AMIA Annual Symposium (AMIA 2017)*, Washington, DC, USA, 2017.
- Eunji Chong, Jaehoon Lee, **Matthew K. Hong**, and James Rehg. Scalable Image-based Search-and-Discovery. *Proceedings of the 35th Annual ACM Conference on Human Factors in Computing Systems (CHI 2017)*, Denver, CO, USA, 2017.
- Matthew K. Hong** and Lauren Wilcox. Care Partnerships: Toward Technology to Support Teens' Participation in Their Health Care (Research Highlight). *Proceedings of the 34th Annual ACM Conference on Human Factors in Computing Systems (CHI 2016)*, San Jose, CA, USA, 2016.
- Yang Liu, Melissa Tharp, **Matthew K. Hong**, Harry Hochheiser, and Wendy W. Chapman. Schema Builder: A Web-based User Interface for Authoring and Sharing Natural-Language Processing Schemas. *Proceedings of the 2013 AMIA Annual Symposium (AMIA 2013)*, Washington, DC, USA, 2013.
- Industry/Technical Reports **Matthew K. Hong**, Fonda Chen, Scott Chiu, Emily Danchik, and Chris Wang. Contextualizing Communication at the Boeing Renton Factory. *Spring Research Report 2014 (Boeing-CMU Capstone Project)*, Pittsburgh, PA, USA, 2014.
- Matthew K. Hong**, Fonda Chen, Scott Chiu, Emily Danchik, and Chris Wang. Echo: Fostering Connection at the Boeing Renton Factory. *Summer Design Report 2014 (Boeing-CMU Capstone Project)*, Pittsburgh, PA, USA, 2014.

## Teaching

- Fall 2017 **Guest Lecturer**, *Georgia Institute of Technology*, College of Computing.  
Personal Health Informatics. "Designing Health Information Technologies to Engage Families in Data-Driven Medical Communication"(Lauren Wilcox).
- Spring 2017 **Graduate Teaching Assistant**, *Georgia Institute of Technology*, College of Computing.  
Issues in Human-Centered Computing (Betsy DiSalvo).
- Spring 2016 **Graduate Teaching Assistant**, *Georgia Institute of Technology*, College of Computing.  
User Interface Design (Lauren Wilcox).
- Summer S1 2014 **Graduate Teaching Assistant**, *Carnegie Mellon University*, School of Computer Science.  
Human-Computer Interaction for Technology Executives (Brad Myers).
- Spring 2014 **Graduate Teaching Assistant**, *Carnegie Mellon University*, School of Computer Science.  
Entrepreneurship and Innovation in Technology (Edward Engler).
- Winter 2012 **Undergraduate Teaching Assistant**, *UC San Diego*, Department of Cognitive Science.  
Cognitive Design Studio (James D. Hollan).

## Mentoring

- Fall 2017 **Chaitanya Bapat**, M.S. CS-ML, Georgia Tech.
- Spring 2017 **Udaya Lakshmi**, M.S. Human-Computer Interaction, Georgia Tech. Now @ GT HCC PhD program
- 2016-2017 **Meeshu Agnihotri**, M.S. Human-Computer Interaction, Georgia Tech
- 2016-2017 **Max Silverman**, M.S. Human-Computer Interaction, Georgia Tech. Now @ Yahoo
- 2015-2016 **Clayton Feustel**, M.S. CS-HCI, Georgia Tech. Now @ GT CS PhD program
- 2014-2015 **Daniel Machado**, M.S. Human-Computer Interaction, Georgia Tech. Now @ Twitter
- Fall 2014 **Meghna Mehta**, M.S. Human-Computer Interaction, Georgia Tech

## Service

- Peer-review **CHI**: 2014-  
**CSCW**: 2015-  
**Pervasive Health**: 2015-
- Volunteering **Conference Student Volunteer**. Pervasive Health 2012, CHI 2015  
**Workshop Organizer**: Workshop on Interactive Systems in Healthcare (WISH 2017)
- Georgia Tech **President**. College of Computing, Korean Student Association (KSA)
- UCSD **Founding Member**. User Experience San Diego (UXSD)  
**Officer**. Korean-American Scientists and Engineers Association (KSEA)

## Awards

- 2012 **Department Honors with Distinction**. University of California, San Diego

## References

Advisors **Lauren G. Wilcox**, Assistant Professor  
School of Interactive Computing  
Georgia Institute of Technology  
Atlanta, GA., USA  
wilcox@cc.gatech.edu

**James D. Hollan**, Professor  
Department of Cognitive Science  
University of California, San Diego  
La Jolla, CA., USA  
hollan@cogsci.ucsd.edu

Mentors **Jodi Forlizzi**, Professor  
Human-Computer Interaction Institute  
Carnegie Mellon University  
Pittsburgh, PA., USA  
forlizzi@cs.cmu.edu

**Anne Marie Piper**, Assistant Professor  
Department of Communication Studies  
Northwestern University  
Evanston, IL., USA  
ampiper@northwestern.edu

**Nadir Weibel**, Research Assistant Professor  
Department of Computer Science and Engineering  
University of California, San Diego  
La Jolla, CA., USA  
weibel@ucsd.edu