

Jason Wiese

Assistant Professor
School of Computing
University of Utah
50 S. Central Campus Drive #3190
Salt Lake City, UT 84112

Office: +1 801-581-6711
Email: wiese@cs.utah.edu
<http://www.cs.utah.edu/~wiese>

Research Interests

I design and build systems to explore the opportunities and address the challenges of dealing with unified personal data. To inform the design of my systems and to demonstrate their utility, I develop approaches for interpreting personal data, create applications that leverage personal data, and conduct user studies to understand the perspectives of users and application developers. Rooted in my immediate background in computer science, I employ knowledge and methods from multiple domains in my research, including: machine learning, user-centered design, real-world data collection, and user study design.

Education

Ph.D., Human-Computer Interaction, September 2015
School of Computer Science, Carnegie Mellon University, Pittsburgh, PA
Advised By: Prof. Jason Hong and Prof. John Zimmerman

B.S., Computer Science, Cum Laude, June 2008
University of California at San Diego, La Jolla, CA
Revelle College Provost's Honor List
Minor: Cognitive Science

Honors and Awards

- 2014 Yahoo Fellow
Ubicomp Student Travel Grant
- 2012 Stu Card Fellowship Recipient
Microsoft Research Student Travel Grant
- 2011 Facebook Ph.D. Fellowship Award Finalist
Carnegie Mellon Usable Privacy and Security Fellowship
Yahoo! Key Scientific Challenges Award Winner
Facebook Ph.D. Fellowship Award Finalist
- 2009 NSF Graduate Research Fellowship Honorable Mention
- 2008 Georgia Institute of Technology Presidential Fellowship (declined)
Member, Phi Beta Kappa Honor Society
- 2006 Member, Tau Beta Pi Engineering Honor Society
- 2003 Thomas J. Watson Memorial Scholarship – Four year academic scholarship

Refereed Conference Publications

- P16 Marlow, J. and Wiese, J.. 2017. Surveying User Reactions to Recommendations Based on Inferences Made by Face Detection Technology. In Proceedings of the Eleventh ACM Conference on Recommender Systems, 269–273 (RecSys '17).
- P15 Marlow, J., Wiese, J., and Avrahami, D.. 2017 Exploring the Effects of Audience Visibility on Presenters and Attendees in Online Educational Presentations. In Proceedings of the the 8th International Conference on Communities and Technologies (C&T 2017).
- P14 Das, S., Wiese, J., and Hong, J.. 2016. Epistenet: facilitating programmatic access & processing of semantically related mobile personal data. In Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '16).
- P13 Kratz, S. and Wiese, J.. 2016. GestureSeg: developing a gesture segmentation system using gesture execution phase labeling by crowd workers. In Proceedings of the 8th ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS '16).
- P12 Gerritsen, D., Tasse, D., Olsen, J., Vlahovic, T., Gulotta, R., Odom, W., Wiese, J., and Zimmerman, J.. 2016. Mailing Archived Emails as Postcards: Probing the Value of Virtual Collections. In Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI '16).
- P11 Laput, G., Lasecki, W., Wiese, J., Xiao, R., Bigham, J., Harrison, C. 2015. Sensors: Adaptive, Rapidly Deployable, Human-Intelligent Sensor Feeds. In Proceedings of the 33rd Annual SIGCHI Conference on Human Factors in Computing Systems, 2015 (CHI '15).
- P10 Wiese, J., Min, J.K., Hong, J. and Zimmerman, J. 2015. "You Never Call, You Never Write": Call and SMS Logs Do Not Always Indicate Tie Strength. In Proceedings of the 2015 conference on Computer supported cooperative work (CSCW '15).
- P9 Wiese, J., Hong, J. and Zimmerman, J. 2014. Challenges and opportunities in data mining contact lists for inferring relationships. In Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '14). ACM, New York, NY, USA, 643-647.
- P8 Min, J.K., Doryab, A., Wiese, J., Amini, S., Zimmerman, J., Hong, J. 2014. Toss 'n' turn: smartphone as sleep and sleep quality detector. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '14). ACM, New York, NY, USA, 477-486.
- P7 Wiese, J., Saponas, T.S., Brush, A.J.. Phoneprioception: enabling mobile phones to infer where they are kept. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '13). ACM, New York, NY, USA, 2157-2166.
- P6 Oney, S., Harrison, C., Ogan, A., Wiese, J. ZoomBoard: a diminutive qwerty soft keyboard using iterative zooming for ultra-small devices. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '13). ACM, New York, NY, USA, 2799-2802.
- P5 Min, J.K., Wiese, J., Hong, J., Zimmerman, J. 2013. Mining smartphone data to classify life-facets of social relationships. In Proceedings of the 2013 conference on Computer supported cooperative work (CSCW '13). ACM, New York, NY, USA, 285-294.
- P4 Sleeper, M., Balebako, R., Das, S., McConahy, A., Wiese, J., Cranor, L . 2013. The post that

- wasn't: exploring self-censorship on facebook. In Proceedings of the 2013 conference on Computer supported cooperative work (CSCW '13). ACM, New York, NY, USA, 793-802.
- P3 Wiese, J., Kelley, P., Cranor, L., Dabbish, L., Hong, J., Zimmerman, J. 2011. Are you close with me? are you nearby?: investigating social groups, closeness, and willingness to share. In Proceedings of the 13th international conference on Ubiquitous computing (UbiComp '11). ACM, New York, NY, USA, 197-206.
- P2 Wiese, J., Biehl, J., Turner, T., van Melle, B., Girgensohn, A . 2011. Beyond 'yesterday's tomorrow': towards the design of awareness technologies for the contemporary worker. In Proceedings of the 13th International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI '11). ACM, New York, NY, USA, 455-464.
- P1 Lindqvist, J., Cranshaw, J., Wiese, J., Hong, J. and Zimmerman, J. 2011. I'm the mayor of my house: examining why people use foursquare - a social-driven location sharing application. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '11). ACM, New York, NY, USA, 2409-2418.

Refereed Journal Publications

- J2 Moore, J. (Ph.D. advisee), Goffin, P., Meyer, M., Lundrigan, P., Patwari, N., Sward, K., Wiese, J. (2018). Managing In-home Environments through Sensing, Annotating, and Visualizing Air Quality Data. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 3, 3, (September 2018) (IMWUT)(Presented at UbiComp 2018).
- J1 Wiese, J., Das, S., Hong, J., & Zimmerman, J. (2017). Evolving the Ecosystem of Personal Behavioral Data. Human-Computer Interaction, 32:5-6, 447-510. (Presented at CHI 2018)

Refereed Workshop Publications

- W4 Wiese, J. 2016. Personal Data: Of the people, by the people, for the people. Abstract and Presentation. Human-Computer Interaction Consortium.
- W3 Doryab, A., Min, J.K., Wiese, J., Zimmerman, J., Hong, J. 2014. Detection of Behavior Change in People with Depression. AAAI Workshops, Modern Artificial Intelligence for Health Analytics. 12-16.
- W2 Wiese, J., Hong, J., Zimmerman, J. 2014. Towards an Ecosystem of Personal Behavioral Data. Boaster, Human-Computer Interaction Consortium.
- W1 Wiese, J., Hong, J., Zimmerman, J. Building a dynamic and computational understanding of personal social networks. In Proceedings of the 1st ACM workshop on Mobile systems for computational social science (MCSS '12). ACM, New York, NY, USA, 5-10.

Patents

- PT4 Brush, A.J., Saponas, T.S., Wiese, J. 2016. Inferring placement of mobile electronic devices. US Patent 9,244,888.
- PT3 Laput, G., Harrison, C., Bigham, J., Lasecki, W., Xiao, R., Wiese, J. 2015. System and Method for Adaptive, Rapidly Deployable, Human-Intelligent Sensor Feeds. US Patent App. 15/561,407.

- PT2 Wiese, J., Biehl, J., Turner, A. 2015. System and method for coordinating communication events using computer-assisted structured interaction. US Patent 8,990,319
- PT1 Wiese, J., Churchill, E., Antin, J. 2013. Method and system for managing sharing of content on an online sharing platform. US Patent App. 13/400,123.

Doctoral Consortia

- DC1 Wiese, J., 2013. Enabling an ecosystem of personal behavioral data. In Proceedings of the adjunct publication of the 26th annual ACM symposium on User interface software and technology (UIST '13 Adjunct). ACM, New York, NY, USA, 41-44.

Invited Articles

- A1 Harrison, C., Wiese, J., and Dey, A. K., 2010. "Achieving Ubiquity: The New Third Wave." IEEE Multimedia, July-September 2010, 17(3). IEEE, Washington, D.C. 8-12

Funding

Current

NIH Grant PRISMS: Informatics Federation Architecture Center, K. Sward (PI), et al, J. Wiese (Co-Investigator), NIH (NIBIB), Sept 2015-2019. \$5,529,663 (\$34,884)

NIH Consulting Impact of Web-Based Lifestyle Interventions on Prostate Cancer Prognosis, S. Kenfield (PI, UCSF) et al, J. Wiese (Consultant), NIH (NCI), Nov 2017-2018. \$672,441 (\$35,162)

Submitted and Under Review

NSF Grant AQ&U, A Sensor-Analytics Toolkit for Ubiquitous Air-Quality Engagement, K. Kelly (PI), J. Wiese (Co-PI), NSF (SCC), \$2,403,238, October 2018-2022

NSF Grant Subaward SBIR Phase I: Scalable Architecture for Heterogeneous Personal Data Ingestion & Integration, J. Wiese (Senior Personnel), NSF (SBIR), \$74,725, January 2019 - 2020

NIH Grant mHealth enhanced Diabetes self-management education for Hispanic males with type 2 diabetes. B. Gibson (PI), J. Wiese (Co-Investigator), NIH R01, April 2019-2024. \$5,629,484

NSF Grant CRII: CHS: Supporting Behavior Change Through Ongoing Engagement with a Digital Companion. J. Wiese (PI). NSF (CHS), \$175,000, March 2019-2021.

Invited Talks

2017 The Promise and Challenge of Personal Data, Invited Talk
Brigham Young University, November.

Deciding to go to Graduate School
Westminster College, October.

The Promise and Challenge of Personal Data, Invited Talk
Sociotechnical Research Group, Biomedical Informatics, University of Utah, April.

- 2015 Enabling and Ecosystem of Personal Behavioral Data, Invited Talk
Bosch Research, May.
- Enabling and Ecosystem of Personal Behavioral Data, Tech Talk
Google, May.
- Enabling and Ecosystem of Personal Behavioral Data, Invited Talk
University of North Carolina at Charlotte, April.
- Enabling and Ecosystem of Personal Behavioral Data, Colloquium
University of Utah, March.
- Enabling and Ecosystem of Personal Behavioral Data, Invited Talk
FX Palo Alto Laboratory, February.
- Enabling and Ecosystem of Personal Behavioral Data, Colloquium
University of Virginia, February.
- Enabling and Ecosystem of Personal Behavioral Data, Colloquium
Worcester Polytechnic Institute, February.
- 2014 Context Awareness, Guest Lecture, Designing Human-Centered Systems,
Carnegie Mellon University, February.
- 2013 Uncovering New Dimensions of Context-Awareness, Invited Talk
FX Palo Alto Laboratory, June.
- 2012 Mobile Social Systems, Guest Lecture, The Social Web: Content, Communities and
Context *Carnegie Mellon University, December.*
- Understanding Social Relationships Within Interactive Systems, Invited Talk,
DUB Seminar Series, University of Washington, August.

Professional Experience

- 2016 to University of Utah
- Present *Salt Lake City, UT. Assistant Professor.*
- 2015 to FX Palo Alto Laboratory
- 2016 *Palo Alto, CA. Research Scientist.*
Research on unauthenticated personalization, gestural interfaces, social cues in video.
- 2012 Microsoft Research
Redmond, WA. Research Intern.
Worked with A.J. Brush and Scott Saponas to develop and evaluate Phoneprioception.
- 2011 Yahoo! Labs
Santa Clara, CA. Research Intern.
Developed an experimental system for social location sharing.
- 2010 FX Palo Alto Laboratory
Palo Alto, CA. Research Intern.
Developed and deployed an mobile social awareness system.
- 2007 to Qualcomm, Inc.
- 2008 *San Diego, CA. Human Factors Engineering Intern.*
Worked on a variety of projects in the Advanced Technology group.

Teaching

- 2018 *Instructor, CS3540 Human Computer Interaction*
Instructor, CS7940 Human-Centered Computing Seminar (Fall)
Instructor, CS6963 Special Topics: Advanced Human-Computer Interaction
- 2017 *Instructor, CS5540 Human Computer Interaction*
Instructor, CS6963 Special Topics: Personal Informatics
Instructor, CS7940 Human-Centered Computing Seminar (Spring and Fall)
- 2016 *Instructor, CS5540 Human Computer Interaction*
Introduction to user-centered design, including user research, design, prototyping, testing, and communicating process. New course offered at the University of Utah.
- 2011 *Instructor, Structures of Software User Interfaces Mobile Lab (CMU)*
Prepared and delivered weekly lectures, created and graded assignments, and held weekly office hours.
- 2010 *Teaching Assistant, Human-Computer Interaction Methods (CMU)*
Advised project groups, held weekly office hours, created and graded assignments and exams

PhD Advisees

- 2017 to Present Kazi Sinthia Kabir, University of Utah
- 2017 to Present Jimmy Moore, University of Utah (Co-advised with Miriah Meyer)

PhD Committees

- 2017 Nina McCurdy, University of Utah

Undergraduate and Masters Students Supervised

- 2018 Dhvani Vora, Ryan Furukawa, Jacob Osterloh, Minh Pham, Ben Anderl (Utah)
- 2017 Sonam Choudhary (Utah)
- 2014 Matthew Bolaños, Yibing Zheng (CMU)
- 2013 Pavel Samsonov, Zhuoshi Xie, Seungheon Han (CMU)

Selected Press

- 2015 Wired (2015). "Human Smarts Plus AI Could Unlock Computer Vision." April 29.
PCWorld (2015). "Zensors app lets you crowdsource live camera monitoring" April 24.
Engadget (2015). "Scientists turn old smartphones into all-seeing eyes" April 22.
Gizmodo (2015). "One Old Android Phone Could Make All Your Dumb Things Smart"

- April 21.
- 2014 World Economic Forum Blog (2014) "Top 10 Emerging Technologies for 2014." September 1.
- 2013 Wired (2013). "Researchers Figure Out How You Can Type on a Smartwatch." May 1.
 Slashdot (2013). "Carnegie Mellon Offers Wee QWERTY Texting Tech For Impossibly Tiny Devices." May 1.
 Gizmodo (2013). "How Typing on a Smart Watch Might Actually Make Sense." April 29.
 MIT Technology Review (2013). "A QWERTY Keyboard for Your Wrist." April 27.
- 2010 MIT Technology Review (2010). "Someone's Watching You." October 28.

Service

- Program Associate Chair, ACM CHI, 2018, 2019
- Committee Associate Chair, ACM CSCW, 2018 Online First, 2018
 Associate Chair, ACM Mobile HCI 2016
 Works in Progress, ACM Human Factors in Computing Systems (CHI), 2011, 2012
- Conference Organizing Proceedings Chair – ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubicomp), 2017
- Committee Mobile App – ACM Human Factors in Computing Systems (CHI), 2010 – 2015
 Mobile App – ACM Ubiquitous Computing (UbiComp), 2012
 Mobile App – ACM User Interface Software and Technology (UIST), 2013-2016
 Mobile App – ACM Interactive Tabletops and Surfaces (ITS/ISS), 2013-2016
- Reviewer Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2017, 2018
 NSF CISE Panel Reviewer, 2018
 Social Networks Journal, 2016
 Human-Computer Interaction Journal, 2016
 Computer-Supported Cooperative Work Journal, 2015
 ACM Human Factors in Computing Systems (CHI), 2010 – 2017
 ACM Mobile Systems, Applications, and Services (Mobisys) 2013
 ACM Ubiquitous Computing (UbiComp) 2011, 2015, 2016
 ACM User Interface Software and Technology (UIST) 2016
 ACM HCI with Mobile Devices and Services (MobileHCI) 2011, 2017
 IEEE Pervasive Computing 2009, 2013 – 2014
- Student Volunteer ACM Human Factors in Computing Systems (CHI), 2010 – 2014
- Departmental Service BS/MS Program Coordinator 2017-present
 Track Director, Human-Centered Computing Graduate Programs 2018-present
 HCC Hiring Committee 2018
 Graduate Admissions Committee 2015-present
 Scholarship Committee 2017, 2018
 Undergraduate Curriculum Committee 2016-present
 Bench to Bedside Health Innovation Competition Judge 2017
 Prospective Ph.D. Student Open House Committee Co-chair, 2010-2011

Committee Member, SUCCOTASH, 2009 – 2011
Ph.D. Lunch Seminar Coordinator, 2010 – 2011
CMU Computer Science outreach roadshow volunteer, 2010