

Jason Wiese

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Research Interests

I design, build, and study systems to explore the opportunities and address the challenges of dealing with personal data. I work in the area of personal informatics across a variety of domains, including with people with mobility impairments, health and behavior change, smart homes and environments. To inform the design of my systems and to demonstrate their utility, I develop approaches for interpreting personal data, create applications that create and 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: participatory design, user-centered design, prototype development, and real-world data collection.

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

- 2022 NSF Career Award
University of Utah Career Champion of the Year Award
- 2014 Yahoo Fellow
Ubicomp Student Travel Grant
- 2012 Stu Card Fellowship Recipient
Microsoft Research Student Travel Grant
Facebook Ph.D. Fellowship Award Finalist
- 2011 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 Journal Publications

Ph.D. Advisees are underlined

- J7 Motahar, T., and Wiese, J. 2022. A Review of Personal Informatics Research for People with Motor Disabilities. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 6, 2, Article 66 (July 2022), 31 pages. <https://doi.org/10.1145/3534614> (Presented at Ubicomp 2022)
- J6 Kabir, K.S., Kenfield, S.A., Van Blarigan, E.L., Chan, J.M., and Wiese, J. 2022. Ask the Users: A Case Study of Leveraging User-Centered Design for Designing Just-in-Time Adaptive Interventions (JITAs). Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 6, 2, Article 59 (July 2022), 21 pages. <https://doi.org/10.1145/3534612> (Presented at Ubicomp 2022)
- J5 Moore, J., Goffin, P., Wiese, J. and Meyer, M. 2022. An Interview Method for Engaging Personal Data. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 5, 4, Article 173 (Dec 2021) (IMWUT) DOI:<https://doi.org/10.1145/3494964> (Presented at Ubicomp 2022)
- J4 Zhang, Z., Henley, T., Schiaffino, M., Wiese, J., Sachs, D., Migliaccio, J. and Huh-Yoo, J. (2021) Older adults' perceptions of community-based telehealth wellness programs: a qualitative study, Informatics for Health and Social Care, DOI: 10.1080/17538157.2021.2006198
- J3 Moore, J., Goffin, P., Wiese, J. and Meyer, M. 2021. "Exploring the Personal Informatics Analysis Gap: "There's a Lot of Bacon", in IEEE Transactions on Visualization and Computer Graphics, vol. 28, no. 1, pp. 96-106, Jan. 2022, doi: 10.1109/TVCG.2021.3114798. (Presented at Vis 2021)
- J2 Moore, J., 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. 2, 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 Conference Publications

Ph.D. Advisees are underlined, postdoctoral mentees are dash-underlined

- P26 Dawson, J., Kauffman, T., and Wiese, J. 2023. It Made Me Feel So Much More at Home Here: Patient Perspectives on Smart Home Technology Deployed at Scale in a Rehabilitation Hospital. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23). ACM, New York, NY, USA, 15 pages
- P25 Wiese, J., Lund, J.R., and Kabir, K.S. 2023. Adding Domain- Specific Features to a Text-Editor to Support Diverse, Real-World Approaches to Time Management Planning. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23). ACM, New York, NY, USA, 13 pages.
- P24 Motahar, T., Ghosh, I., and Wiese, J. 2022. Identifying factors that inhibit self-care behavior among individuals with severe spinal cord injury. In Proceedings of the 2022 CHI Conference

- on Human Factors in Computing Systems (CHI '22). Association for Computing Machinery, New York, NY, USA, Article 3, 1–16.
- P23 Kabir, K.S. , Flis, A., Mickens, M., Trapp, S.K., and Wiese, J. 2021. We're Not Meant to Deal With Crisis for a Year": Supporting Frontline Healthcare Providers' Wellness During a Pandemic. In Proceedings of the 15th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth'21). Springer.
- P22 Kabir, K.S. , Alsaleem, A. , and Wiese, J. 2021. The Impact of Spinal Cord Injury on Participation in Human-Centered Research. Designing Interactive Systems Conference 2021 (DIS '21). Association for Computing Machinery, New York, NY, USA, 1902–1914. DOI:<https://doi.org/10.1145/3461778.3462122>
- P21 Lund, J. and Wiese, J. 2021. Less is More: Exploring Support for Time Management Planning. Designing Interactive Systems Conference 2021 (DIS '21). Association for Computing Machinery, New York, NY, USA, 392–405. DOI:<https://doi.org/10.1145/3461778.3462133>
- P20 Alsaleem, A. , Imburgia, R., Merryweather, A., Rosenbluth, J., Trapp, S., and Wiese, J. 2020. Applying Ability-Based Design Principles to Adaptive Outdoor Activities. In Proceedings of the 2020 on Designing Interactive Systems Conference (DIS '20). Association for Computing Machinery, New York, NY, USA. Association for Computing Machinery, New York, NY, USA, 1–12. DOI:<https://doi.org/10.1145/3357236.3395508> **Best Paper Award.**
- P19 Alsaleem, A. , Imburgia, R., Merryweather, A., Altizer, R., Rosenbluth, J., Trapp, S., and Wiese, J. 2020. Experience is not Required: Designing a Sailing Experience for Individuals with Tetraplegia. Applying Ability-Based Design Principles to Adaptive Outdoor Activities. In Proceedings of the 2020 ACM Designing Interactive Systems Conference (DIS '20). Association for Computing Machinery, New York, NY, USA, 35–46. DOI:<https://doi.org/10.1145/3357236.3395529> **Best Paper award honorable mention.**
- P18 Alsaleem, A. , Imburgia, R., Godinez, M., Merryweather, A., Altizer, R., Denning, T., Rosenbluth, J., Trapp, S., and Wiese, J. 2019. Leveraging Shared Control to Empower People with Spinal Cord Injury to Participate in Extreme Sports. 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS).
- P17 Kabir, K. S. , Van Blarigan, E. L., Chan, J. M., Kenfield, S.A., and Wiese, J.. 2019. "I'm Done with Cancer. What am I Trying to Improve?": Understanding the Perspective of Prostate Cancer Patients to Support Multiple Health Behavior Change. In Proceedings of the 13th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth'19). ACM, New York, NY, USA, 81-90.
- 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). **Best paper honorable mention.**
- 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. Zensors: 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. **Best paper honorable mention.**
- 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.

Workshops Organized

- WO3 Bandukda, M., Barbareschi, G., Singh, A., Jain, D., Das, M., Motahar, T., Wiese, J., Cockburn, L., Prakash, A., Frohlich, D., Holloway, C. (2022) A Workshop on Disability Inclusive Remote Co-Design. Co-located with ASSETS 2022.
- WO2 Perera, C., Wiese, J., Bourgeois, J., Korteum, G. (2020) Building a Research Agenda for Shared Smart Spaces. Workshop Accepted to Ubicomp 2020, postponed due to COVID.
- WO1 Kurana, R., Bedri, A., Carrington, P., Epstein, D., Gouveida, R., Meyer, J., Rojas, J., Wiese, J., Woźniak, P. (2020). Beyond Steps: Challenges and Opportunities in Fitness Tracking. Workshop Accepted to Ubicomp 2020, postponed due to COVID.

Book Chapters

- BC2 Wiese, J. 2021. Personal Context from Mobile Phones—Case Study 5. Intelligent Computing for Interactive System Design: Statistics, Digital Signal Processing, and Machine Learning in Practice (1st ed.). Association for Computing Machinery, New York, NY, USA, 341–376. DOI:<https://doi.org/10.1145/3447404.3447424>
- BC1 Alsaleem A., Imburgia R., Merryweather A., Rosenbluth J., Trapp S., Wiese J. (2020) Creating a User-Controllable Skiing Experience for Individuals with Tetraplegia. In: McCrickard D.S., Jones M., Stelter T.L. (eds) HCI Outdoors: Theory, Design, Methods and Applications. Human–Computer Interaction Series. Springer, Cham. https://doi.org/10.1007/978-3-030-45289-6_15

Refereed Workshop Papers, Abstracts, Demos, and Posters

- W19 Motahar, T., Kogan, M., Wiese, J. 2022. Using Online Social Spaces for Information Seeking and Identity Construction for People with Spinal Cord Injuries. CSCW 2022 Workshop: Information-Seeking, Finding Identity: Exploring the Role of Online Health Information in Illness Experience.
- W18 Alghamdi, L., Mamtaj Akter, Cardenas, C., Cruces, D., Wiese, J., Kropczynski, J., Lipford, H., and Wisniewski, P. (2022). Mi Casa es Su Casa (“MiSu”): A Mobile App for Sharing Smart Home Devices with People Outside The Home. In Companion Computer Supported Cooperative Work and Social Computing (CSCW’22 Companion). Demo.
- W17 Dawson, J., Kabir, K.S., Kauffman, Trapp, S.K., and Wiese, J. 2022. Opportunities to Support Mechanical Ventilation Weaning. In Proceedings of the 2022 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp/ISWC ’22 Adjunct), September 11–15, 2022. ACM, New York, NY, USA, 4 pages.
- W16 Kabir, K., Wiese, J. (2022). The Challenge for Just-in-Time Adaptive Interventions: Incomplete or Missing Data. CHI ’22 Workshop: Grand Challenges for Personal Informatics and AI.
- W15 Motahar, T., and Wiese, J. (2022). Designing Technology for Complex Self-care :

Considerations for people with Spinal Cord Injury. CHI '22 Workshop: Challenges, Tensions, and Opportunities in Designing Ecosystems to Support the Management of Complex Health Needs.

- W14 Motahar, T., and Wiese, J. (2022). Expanding Disability Justice in HCI : Considerations of Holistic “Lived Experience”. CHI '22 Workshop: Dreaming Disability Justice in HCI.
- W13 Motahar, T., and Wiese, J. (2022). AI-driven Personal Informatics for Individuals with Severe Spinal Cord Injury. CHI '22 Workshop: Grand Challenges for Personal Informatics and AI.
- W12 Trapp, S., Alsalem, A. , Gardner, J., Rosenbluth, J., Wiese, J. (2020). No Experience is Required: The Road Toward Designing Usable and Accessible Sports Activities for Individuals With Spinal Cord Injuries. Academy of Spinal Cord Injury Professionals Annual Meeting (ASCIP).
- W11 Moore, J. , Dailey, M., Wilhelm, Z., Kelly, K., Goffin, Butterfield, A., Wiese, J., Xing, W., Le, K., Becnel, T., & Gaillardon, P. (2020). Engaging Pre-College Students in Hypothesis Generation using a Citizen Scientist Network of Air Quality Sensors. Works in Progress. American Society for Engineering Education, 2020.
- W10 Moore, J. , Xing, W., Dailey, M., Le, K., Becnel, T., Goffin, P., Meyer, M., Gaillardon, P., Whitaker, R., Wiese, J., Butterfield, A. & Kelly, K. (2019). Engaging Middle and High School Students in Hypothesis Generation Using a Citizen-Scientist Network of Air Quality Sensors. AIChE Annual Meeting.
- W9 Waller, L., Cayias, T., Moss, A., Gabiola, N, Wiese, J., Partin, K., Gardner, J., Rosenbluth, J., Trapp, S. 2019. Supporting Mechanical Ventilation Weaning with Virtual Reality: A feasibility study. Poster presentation and abstract at American Congress of Rehabilitation Medicine (ACRM) 2019.
- W8 Gibson, B., Jackman, J., Metos, J., Tutt, M., and Wiese, J. 2019. Development and Pilot Testing of a Brief Video Intervention to Teach Implementation Intentions. Poster presentation and abstract at Society of Behavioral Medicine (SBM) 2019.
- W7 Sward, K., Moore, J. , Wiese, J, and Meyer, M. 2018. Participatory Design for Exposomic Studies Involving Sensors. Poster Presentation and Abstract at AMIA 2018.
- W6 Moore, J. , Goffin, P., Meyer, M., Wiese, J. (2018). Interpersonal Informatics: A Case Study of In-Home Air Quality. Social Issues in Personal Informatics: Design, Data, and Infrastructure Workshop at CSCW 2018.
- W5 Wiese, J. 2018. Contextual Integrity of Unobtrusive Sensing in Different Scenarios. Privacy in Context: Critically Engaging with Theory to Guide Privacy Research and Design Workshop at CSCW 2018.
- 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.

Other Doctoral Consortia, Invited Articles, Workshops

- O3 Wiese, J., Hall, M. 2021. Building Human-Centered Computing Knowledge of Scientific Software Development. ASCR Workshop on the Science of Scientific-Software Development and Use.
- O2 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.
- O1 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

NSF Grant CAREER: Making Smart Hospitals Useful. J. Wiese (PI), NSF (CISE-IIS), Recommended for funding. April 2022-2027. \$600,000.

NSF Grant FW-HTF-P: Managing Time and Work-Life Boundaries in Support of Future Remote Workers. J. Wiese (PI), NSF (CMMI), Oct 2021-2022. \$150,000.

NSF Cooperative Agreement CloudLab Phase III: Expanding the Frontiers of Cloud Computing Through World-Class Community Infrastructure, R. Ricci (PI), J. Wiese (Co-PI), NSF (CISE-CNS), Oct 2020-2024. \$10,000,000. (\$771,673)

VP Research Grant Using Mobile Health Tools to Maintain Provider Wellness in a Pandemic, J. Wiese (PI). April 2020-2021. \$25,000.

NSF Grant EAGER: Identifying Principles for Software to Support Daily Action Planning, J. Wiese (Principle Investigator), NSF (CISE-IIS), Oct 2019-2020. \$100,000

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)

Invited Talks

- 2022 “Not *just* another user study”: Uncovering systematic shortcomings of familiar research methods, Invited Talk
DUB Seminar, University of Washington, Seattle, WA, October.
- “Not *just* another user study”: Uncovering systematic shortcomings of familiar research methods, Invited Talk
Megagon Labs, September.
- “Not *just* another user study”: Uncovering systematic shortcomings of familiar research methods, Invited Talk
USI Lugano, Lugano, Switzerland, August.
- “Not *just* another user study”: Uncovering systematic shortcomings of familiar research methods, Invited Talk
ETH Zurich, Zurich, Switzerland, August.
- “Not *just* another user study”: Uncovering systematic shortcomings of familiar research methods, Invited Talk
GVU Center, Georgia Institute of Technology, February.
- 2021 “Not *just* another user study”: Uncovering the systematic shortcomings of familiar research methods, Invited Talk
Computer Science Colloquium, Brigham Young University, September.
- 2019 Empowering People With Their Personal Data, Invited Talk.
Informatics Forum, University of Edinburgh, April.
- Empowering People With Their Personal Data, Invited Talk.
Human-Centered Design Seminar, George Mason University, April.
- Evolving the Ecosystem of Personal Behavioral Data, Invited Talk.
IT and Cybersecurity Seminar, Brigham Young University, January.
- Empowering People With Their Personal Data, Invited Talk.
Cognitive Neuroscience Seminar, University of Utah, January.
- 2018 Making Sense of Personal Data, Invited Talk
National University of Singapore, November.
- 2017 The Promise and Challenge of Personal Data, Invited Talk
Computer Science, 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 a 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

2023 *Spring: Instructor, CS6964 Special Topics: Ubiquitous Computing and Accessibility*

2022 *Fall: Instructor, COMP1010: Programming for All 1*

Fall: Instructor, CS7940 Human-Centered Computing Seminar

- Spring: Instructor, CS6955 Special Topics: Advanced Human-Computer Interaction
- 2021 Fall: Instructor, COMP1010: Programming for All 1
Spring: Instructor, CS6963 Special Topics: Personal Informatics
Spring: Instructor, CS7940 Human-Centered Computing Seminar
- 2020 Fall: Instructor, COMP1010: Programming for All 1 (Co-instructor with Meyer)
Spring: Instructor, CS6955 Special Topics: Advanced Human-Computer Interaction
- 2018 Fall: Instructor, CS3540 Human Computer Interaction
Fall: Instructor, CS7940 Human-Centered Computing Seminar
Spring: Instructor, CS6963 Special Topics: Advanced Human-Computer Interaction
New course offered at the University of Utah.
- 2017 Fall: Instructor, CS5540 Human Computer Interaction
Fall: Instructor, CS7940 Human-Centered Computing Seminar
Spring: Instructor, CS6963 Special Topics: Personal Informatics
New course offered at the University of Utah.
Spring: Instructor, CS7940 Human-Centered Computing Seminar
New course offered at the University of Utah.
- 2016 Fall: 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

Postdoctoral Mentees

- 2022 to present Hannah Cohoon, University of Utah
2020 to 2021 Isha Ghosh, University of Utah (Now at Intel)

PhD Advisees

- 2022 to Present Jordan Pyper, University of Utah
- 2021 to Present Joshua Dawson, University of Utah
- 2020 to Present Tamanna Motahar, University of Utah
- 2017 to Present Kazi Sinthia Kabir, University of Utah
- 2019 to 2021 Ahmad Alsaleem, University of Utah **Graduated.**
Current position: Assistant Professor at Jordan University of Science and Technology
Dissertation: Designing Collaborative Control Systems For Adaptive Outdoor Experiences
- 2017 to 2021 Jimmy Moore, University of Utah (Co-advised with Miriah Meyer) **Graduated.**
Now at Lucid Software, Inc.
Dissertation: The Personal Informatics Analysis Gap

PhD Committees

- 2022 Connor Olsen, University of Utah
- 2022 Usman Sattar, University of Utah
- 2022 Md Dilshadur Rahman, University of Utah
- 2022 Cole Polychronis, University of Utah
- 2022 Connor Scully-Allison, University of Utah
- 2020 Haihan Lin, University of Utah
- 2020 Di Wang, University of Utah
- 2019 Amir Yazdani, University of Utah, Graduated
- 2018 Carolina Nobre, University of Utah, Graduated
- 2017 Nina McCurdy, University of Utah, Graduated

MS Project/Thesis Committees

- 2022 Derya Akbaba, University of Utah
- 2020 Russell Kennington, University of Utah
- 2019 Scott Gale, University of Utah

Undergraduate and Masters Students Supervised

- 2022 Ashlyn Hansen (Utah, ACCESS), Jens Phanich (Utah, BS Thesis), John Bovard (Utah, BS Thesis), Tom Kauffman (Utah, SPUR), Courtney Holbrook (Utah, BS Thesis)
- 2021 Anna Bell (Utah, NSF REU), Calvin Tu (Utah, NSF REU)
- 2019 Kylee Fluckiger (BS Honors Thesis), Dhwani Vora (Utah), Ryan Furukawa (Utah), Kelsey Hunzeker (Utah, ACCESS), John Lund (BYU, SPUR)
- 2018 Dhwani Vora (Utah), Ryan Furukawa (Utah), Jacob Osterloh (Utah), Minh Pham (Utah), Ben Anderl (Utah), John Lund (BYU)
- 2017 Sonam Choudhary (Utah)
- 2014 Matthew Bolaños (CMU), Yibing Zheng (CMU)
- 2013 Pavel Samsonov (CMU), Zhuoshi Xie (CMU), Seungheon Han (CMU)

Selected Press

- 2018 Utah Public Radio (2018). "Visualizing Your Homes Air Quality To Better Understand How Everyday Activities Impact The Air." November 1.
- Greenwire (2018). "In-home monitoring changes household routines - study." October 9.
- Salt Lake Tribune (2018). "Study looks at effect chores have on air quality at home." October 7.
- Sciences Et Avenir (2018). "Quand la pollution présente chez soi devient visible." October 6.
- Jeff Kaplan's Afternoon News, KSL Radio (2018). October 3.
- 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 Committee¹ Associate Editor, ACM IMWUT Journal, 2019, 2020, 2021, 2022, 2023
 Associate Chair, ACM CHI, 2018, 2019, 2023
 Associate Chair, ACM CSCW, 2018 Online First, 2018, 2019, 2021, 2023
 Associate Chair, ACM Mobile HCI 2016
 Works in Progress, ACM Human Factors in Computing Systems (CHI), 2011, 2012
- Conference Organizing Committee Proceedings Chair – ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp), 2017
 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 Panel Reviewer, 2018, 2021, 2022
 Social Networks Journal, 2016
 Human-Computer Interaction Journal, 2016
 Computer-Supported Cooperative Work Journal, 2015
 ACM Human Factors in Computing Systems (CHI), 2010 – 2017, 2021
 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
- College and University Faculty Advisor, Tau Beta Pi Engineering Honor Society 2021-present
 Faculty Advisor, Disability and Access in STEM student club 2021-present

¹ Program committee work as an associate chair in CHI and CSCW entails being responsible for 12-20 submissions, recruiting external reviewers, facilitating reviewer discussion, preparing full reviews for half and preparing meta-reviews for the other half, and representing those submissions during the program committee meeting. Responsibilities as an associate editor at IMWUT are similar, with the primary difference being that associate editors make accept/reject decisions independently, without discussing at a larger committee or editorial meeting.

Service

- Departmental Service
- Founding Coordinator, Incoming Undergraduate Mentoring Program 2020-present
 - BS/MS Program Coordinator 2017-present
 - Track Director, Human-Centered Computing Graduate Programs 2018-present
 - Hiring Committee 2018, 2021
 - Graduate Admissions Committee 2015-2019
 - Scholarship Committee 2017, 2018, 2019
 - Undergraduate Curriculum Committee 2016-2019
 - Prospective Ph.D. Student Open House Committee Co-chair, 2010-2011
 - Committee Member, SUCCOTASH, 2009 – 2011
 - Ph.D. Lunch Seminar Coordinator, 2010 – 2011
- Other Service and outreach
- Presentation at Engineering Day 2022
 - Judge, University of Utah Science and Engineering Fair 2021
 - Office of Undergraduate Research Summer Symposium Judge 2019
 - Bench to Bedside Health Innovation Competition Judge 2017, 2021, 2022
 - CMU Computer Science outreach roadshow volunteer, 2010
 - Undergraduate research forum speaker, 2018, 2020, 2021
- Guest Lectures
- Masters of Software Development Mobile Programming (2021, 2022)
 - CS 6540 Grad HCI (2017, 2021)
 - Undergraduate Mobile Programming (2022)
 - Engineering Scholars (2021)