

James Fogarty

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Curriculum Vitae
Last Updated July 2022

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FACULTY APPOINTMENTS

Professor , Computer Science & Engineering, University of Washington Adjunct Professor, Human Centered Design & Engineering Adjunct Professor, The Information School	Autumn 2017 – present
Associate Professor , Computer Science & Engineering, University of Washington	Autumn 2011 – Summer 2017
Assistant Professor , Computer Science & Engineering, University of Washington	Autumn 2006 – Summer 2011

EDUCATION

Doctor of Philosophy, Human Computer Interaction Human Computer Interaction Institute, School of Computer Science Carnegie Mellon University Dissertation: Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility Advised by Scott E. Hudson Committee: Christopher Atkeson, Eric Horvitz, Robert Kraut	February 2006
Bachelor of Science, Computer Science Virginia Polytechnic Institute & State University (Virginia Tech) Degree in Honors, with Honors Thesis Minors in Math and Political Science Major QCA: 4.0/4.0, Overall QCA: 3.96/4.0	May 2000

ADDITIONAL POSITIONS

Visiting Researcher, Microsoft Research, Redmond, WA Hosts: Desney Tan, Mary Czerwinski	Summer 2007
Post-Doctoral Fellow, Carnegie Mellon University Graduate Research Assistant, Carnegie Mellon University Advisor: Scott E. Hudson	Spring 2006 – Summer 2006 Fall 2000 – Spring 2006
Research Intern, IBM TJ Watson Research Center, Hawthorne, NY Hosts: Jennifer Lai, John Richards, Paul Chou	Summer 2003
Undergraduate Research Assistant, Virginia Tech Advisors: John Carroll, Mary Beth Rosson	Fall 1998 – Spring 2000
Developer, IBM Research Triangle Park, Raleigh Durham, NC	Summer 2000
Developer, Appropriate Technologies, Chesapeake, VA	Summer 1997, Fall 1997, Summer 1998




AWARDS AND HONORS




Best Paper Honorable Mention, ASSETS 2018 Examining Image-Based Button Labeling for Accessibility in Android Apps through Large-Scale Analysis [P.89], for Top 5% of 158 submissions	2018
Best Paper Honorable Mention, DIS 2018 Examining Self-Tracking by People with Migraine: Goals, Needs, and Opportunities in a Chronic Health Condition [P.85], for Top 5% of 405 submissions	2018
Best Paper Honorable Mention, ASSETS 2017 Epidemiology as a Framework for Large-Scale Mobile Application Accessibility Assessment [P.84], for Top 5% of 126 submissions	2017



Best Paper Award, CHI 2017 Examining Menstrual Tracking to Inform the Design of Personal Informatics Tools [P.78], for Top 1% of 2400 submissions	2017
Best Paper Honorable Mention, CHI 2017 TummyTrials: A Feasibility Study of Using Self-Experimentation to Detect Individualized Food Triggers [P.77], for Top 5% of 2400 submissions	2017
Best Paper Award, CSCW 2016 Boundary Negotiating Artifacts in Personal Informatics: Patient-Provider Collaboration with Patient-Generated Data [P.64], for Top 1% of 571 submissions	2016
Carnegie Mellon School of Computer Science Allen Newell Award for Research Excellence with Scott Hudson, Daniel Avrahami, Johnny Lee, Chris Harrison, Robert Xiao for “Innovative and Practical Physical Interaction Techniques”	2015
Best Paper Honorable Mention, CHI 2015 Barriers and Negative Nudges: Exploring Challenges in Food Journaling [P.60], for Top 5% of 2120 submissions	2015
University of Washington Innovation Research Award with Julie Kientz, Sean Munson, Shwetak Patel, Roger Vilardaga, Jasmine Zia for “A Connected Approach to Personalized Mobile Health”	2015
Best Paper Honorable Mention, CHI 2014 Gesture Script: Recognizing Gestures and their Structure using Rendering Scripts and Interactively Trained Parts [P.55], for Top 5% of 2043 submissions	2014
National Academy of Sciences Kavli Fellow	2013
Best Paper Award, dg.o 2011 Attitudes Toward Online Availability of US Public Records [P.43], for Top 1 of 62 submissions	2011
National Science Foundation CAREER Award	2011
Best Paper Award, CHI 2010 Prefab: Implementing Advanced Behaviors Using Pixel-Based Reverse Engineering of Interface Structure [P.36], for Top 1% of 1346 submissions	2010
Best Paper Honorable Mention, UbiComp 2009 HydroSense: Infrastructure-Mediated Single-Point Sensing of Whole-Home Water Activity [P.32], for Top 3 of 251 submissions	2009
Best Paper Honorable Mention, CHI 2009 Amplifying Community Content Creation with Mixed Initiative Information Extraction [P.31], for Top 5% of 1130 submissions	2009
Best Paper Award, CHI 2005 Examining Task Engagement in Sensor Based Statistical Models of Human Interruptibility [P.11], for Top 1% of 372 submissions	2005
“Best of UIST” Invitee for SIGGRAPH 2004 Reprise GADGET: A Toolkit for Optimization Based Approaches to Interface and Display Generation [P.7], for Top 3 of 116 submissions	2004





REFEREED CONFERENCE AND JOURNAL ARTICLES



- [P.104] Kong, J., Zhong, M., Fogarty, J., Wobbrock, J.O. (2022). Quantifying Touch: New Metrics for Characterizing What Happens During a Touch (ASSETS 2022). To Appear.
- [P.103] Fok, R., Zhong, M., Ross A.S., Fogarty, J., Wobbrock, J.O. (2022). A Large-Scale Longitudinal Analysis of Missing Label Accessibility Failures in Android Apps. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2022). pp. 1–16.
- [P.102] Mariakakis, A., Karkar, R., Patel, S.N., Kientz, J.A., Fogarty, J., Munson, S.A. (2022). Using Health Concept Surveying to Elicit Usable Evidence: Case Studies of a Novel Evaluation Methodology. JMIR Human Factors. Vol. 9, Iss. 1. Jan 2022. e30474.
- [P.101] Kirchner, S., Schroeder, J., Fogarty, J., Munson, S.A. (2021). “They don’t always think about that”: Translational Needs in the Design of Personal Health Informatics Applications. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2021). 16 pages.

- [P.100] Epstein, D.A., Dontcheva, M., Fogarty, J., Munson, S.A. (2020). Yarn: Adding Meaning to Shared Personal Data through Structured Storytelling. Proceedings of Graphics Interface (GI 2020). Acceptance Rate: 52%.
- [P.99] Suh, J., Williams, S., Fann, J.R., Fogarty, J., Bauer, A.M., and Gary Hsieh. (2020). Parallel Journeys of Patients with Cancer and Depression: Challenges and Opportunities for Technology-Enabled Collaborative Care. Proceedings of the ACM on Human-Computer Interaction. Vol. 4, CSCW1. May 2020, 36 pages.
- [P.98] Pina, L.R., Sien, S., Song, C., Ward, T.M., Fogarty, J., Munson, S.A., Kientz, J.A. (2020). DreamCatcher: Exploring How Parents and School-Age Children can Track and Review Sleep Information Together. Proceedings of the ACM on Human-Computer Interaction. Vol. 4, CSCW1. May 2020. 25 pages.
- [P.97] Munson, S.A., Schroeder, J., Karkar, R., Kientz, J.A., Chung, C., Fogarty, J. (2020). The Importance of Starting With Goals in N-of-1 Studies. Frontiers in Digital Health. Vol. 2. May 2020.
- [P.96] Schroeder, J., Suh, J., Wilks, C., Czerwinski, M., Munson, S.A., Fogarty, J., Althoff, T. (2020). Data-Driven Implications for Translating Evidence-Based Psychotherapies into Technology-Delivered Interventions. Proceedings of the International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2020). pp. 274–287.
- [P.95] Swearngin, A., Wang, C., Oleson, A., Fogarty, J., Ko, A.J. (2020). Scout: Rapid Exploration of Interface Layout Alternatives through High-Level Design Constraints. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2020). pp. 1-13. Acceptance Rate: 24%.
- [P.94] Ross, A.S., Zhang, X., Fogarty, J., Wobbrock, J.O. (2020). An Epidemiology-Inspired Large-Scale Analysis of Android App Accessibility. ACM Transactions on Accessible Computing (TACCESS). Vol. 13, Iss. 1. Apr 2020.
- [P.93] Schroeder, J., Karkar, R., Murinova, N., Fogarty, J., Munson, S.A. (2019). Examining Opportunities for Goal-Directed Self-Tracking to Support Chronic Condition Management. Proceedings of the ACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT). Vol. 3, Iss. 4. Dec 2019. 26 pages.
- [P.92] Chaudhuri, B., Perlmutter, L., Petelka, J., Garrison, P., Fogarty, J., Wobbrock, J.O., Ladner, R.E. (2019). GestureCalc: An Eyes-Free Calculator for Touch Screens. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS 2019). pp. 112–123. Acceptance Rate: 26%.
- [P.91] Chung, C., Wang, Q., Schroeder, J., Cole, A., Zia, J., Fogarty, J., Munson, S.A. (2019). Identifying and Planning for Individualized Change: Patient-Provider Collaboration Using Lightweight Food Diaries in Healthy Eating and Irritable Bowel Syndrome. Proceedings of the ACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT). Vol. 3, Iss. 1, Sep 2019. pp. 1-27.
- [P.90] Schroeder, J., Karkar, R., Fogarty, J., Kientz, J.A., Munson, S.A., Kay M. A Patient-Centered Proposal for Bayesian Analysis of Self-Experiments for Health. Journal of Healthcare Informatics Research. Vol. 3, Iss. 1. Mar 2019. pp. 124-155.
- [P.89]  Ross, A.S., Zhang, X., Fogarty, J., Wobbrock, J.O. (2018). Examining Image-Based Button Labeling for Accessibility in Android Apps through Large-Scale Analysis. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS 2018). 119-130. Acceptance Rate: 26%. Best Paper Honorable Mention.
- [P.88] Zhang, X., Tran, T., Sun, Y., Culhane, I., Jain, S., Fogarty, J., Mankoff, J. (2018). Interactiles: 3D Printed Tactile Interfaces to Enhance Mobile Touchscreen Accessibility. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS 2018). pp. 131-142. Acceptance Rate: 26%.
- [P.87] Zhang, X., Ross, A.S., Fogarty, J. (2018). Robust Annotation of Mobile Application Interfaces in Methods for Accessibility Repair and Enhancement. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2018). pp. 609-621. Acceptance Rate: 21%.
- [P.86] Karkar, R., Kocielnik, R., Zhang, X., Zia, J., Ioannou, G.N., Munson, S.A., Fogarty, J. (2018). Beacon: Designing a Portable Device for Self-Administering a Measure of Critical Flicker Frequency. Proceedings of the ACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT). Vol. 2, Iss. 3. Sept 2018. pp. 1-27.
- [P.85]  Schroeder, J., Chung, C., Epstein, D.A., Karkar, R., Parsons, A., Murinova, N., Fogarty, J., Munson, S.A. (2018). Examining Self-Tracking by People with Migraine: Goals, Needs, and Opportunities in a Chronic Health Condition. Proceedings of the ACM Conference on Designing Interactive Systems (DIS 2018). pp. 135-148. Acceptance Rate: 23%. Best Paper Honorable Mention.
- [P.84]  Ross, A.S., Zhang, X., Fogarty, J., Wobbrock, J.O. (2017). Epidemiology as a Framework for Large-Scale Mobile Application Accessibility Assessment. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS 2017). pp. 2-11. Acceptance Rate: 26%. Best Paper Honorable Mention.
- [P.83] Kuksenok, K., Aragon, C., Fogarty, J., Lee, C.P., Neff, G. (2017). Deliberate Individual Change Framework for Understanding Programming Practices in Four Oceanography Groups. Proceedings of the European Conference on Computer Supported Cooperative Work (ECSCW 2017). pp. 663-691.
- [P.82] Swearngin, A., Ko, A.J., Fogarty, J. (2017). Genie: Input Retargeting on the Web through Command Reverse Engineering. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017). pp. 4703-4714. Acceptance Rate: 25%.

- [P.81] Evans, A.C., Davis, K., Fogarty, J., Wobbrock, J.O. (2017). Group Touch: Distinguishing Tabletop Users in Group Settings via Statistical Modeling of Touch Pairs. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. pp. 35-47. Acceptance Rate: 25%.
- [P.80] Chung, C., Agapie, E., Schroeder, J., Mishra, S.R., Fogarty, J., Munson, S.A. (2017). When Personal Tracking Becomes Social: Examining the Use of Instagram for Healthy Eating. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. pp. 1674-1687. Acceptance Rate: 25%.
- [P.79] Zhang, X., Ross, A.S., Caspi, A., Fogarty, J., Wobbrock, J.O. (2017). Interaction Proxies for Runtime Repair and Enhancement of Mobile Application Accessibility. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. pp. 6024-6037. Acceptance Rate: 25%.
- [P.78]  Epstein, D.A., Lee, N.B., Kang, J.H., Agapie, E., Schroeder, J., Pina, L.R., Fogarty, J., Kientz, J.A., Munson, S.A. (2017). Examining Menstrual Tracking to Inform the Design of Personal Informatics Tools. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. pp. 6876-6888. Acceptance Rate: 25%. Best Paper Award.
- [P.77]  Karkar, R., Schroeder, J., Epstein, D.A., Pina, L.R., Scofield, J., Fogarty, J., Kientz, J.A., Munson, S.A., Vilardaga, R., Zia, J. (2017). TummyTrials: A Feasibility Study of Using Self-Experimentation to Detect Individualized Food Triggers. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. pp. 6850-6863. Acceptance Rate: 25%. Best Paper Honorable Mention.
- [P.76] Chung, J., Demiris, G., Thompson, H., Chen, K.Y., Burr, R., Patel, S.N., Fogarty, J. (2017). Feasibility Testing of a Home-Based Sensor System to Monitor Mobility and Daily Activities in Korean American Older Adults. *International Journal of Older People Nursing*. Mar 2017.
- [P.75] Zia, J., Chung, C., Schroeder, J., Bales, E., Schenk, J., Munson, S.A., Kientz, J.A., Fogarty, J., Heitkemper, M. (2017). The Feasibility, Usability, and Perceived Clinical Utility of Traditional Paper Irritable Bowel Syndrome Food and Symptom Journals. *Neurogastroenterology and Motility*. Vol. 29, Iss. 2. Feb 2017.
- [P.74] Schroeder, J., Hoffswell, J., Chung, C., Fogarty, J., Munson, S.A., Zia, J. (2017). Supporting Patient-Provider Collaboration to Identify Individual Triggers using Food and Symptom Journals. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2017)*. pp. 1726-1739. Acceptance Rate: 35%.
- [P.73] Pina, L.R., Sien, S., Ward, T., Yip, J.C., Munson, S.A., Fogarty, J., Kientz, J.A. (2017). From Personal Informatics to Family Informatics: Understanding Family Practices around Health Monitoring. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2017)*. pp. 2300-2315. Acceptance Rate: 35%.
- [P.72] Choe, E.K., Abdullah, S., Rabbi, M., Thomaz, E., Epstein, D.A., Kay, M., Cordeiro, F., Abowd, G.D., Choudhury, T., Fogarty, J., Lee, B., Matthews, M., Kientz, J.A. (2017). Semi-Automated Tracking: A Balanced Approach for Self-Monitoring Applications. *IEEE Pervasive Computing*. Vol. 16, Iss. 1. Jan 2017. pp. 74-84.
- [P.71] Epstein, D.A., Kang, J., Pina, L.R., Fogarty, J., and Munson, S.A. (2016). Reconsidering the Device in the Drawer: Lapses as a Design Opportunity in Personal Informatics. *Proceedings of the International Conference on Pervasive and Ubiquitous Computing (UbiComp 2016)*. pp. 829-840. Acceptance Rate: 24%.
- [P.70] Zia, J.K., Chung, C., Schroeder, J., Munson, S.A., Kientz, J.A., Fogarty, J., Bales, E., Schenk, J.M., Heitkemper, M.M. (2016). The Feasibility, Usability, and Clinical Utility of Traditional Paper Food and Symptom Journals for Patients with Irritable Bowel Syndrome. *Neurogastroenterology & Motility*. Vol. 29, Iss. 2. Sep 2016.
- [P.69] Zhang, X., Pina, L.R., and Fogarty, J. (2016). Examining Unlock Journaling with Diaries and Reminders for In Situ Self-Report in Health and Wellness. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2016)*. pp. 5658-5664. Acceptance Rate: 23%.
- [P.68] Epstein, D.A., Cordeiro, F., Hsieh, G., Fogarty, J., and Munson, S.A. (2016). Crumbs: Lightweight Daily Food Challenges to Promote Engagement and Mindfulness. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2016)*. pp. 5632-5644. Acceptance Rate: 23%.
- [P.67] Epstein, D.A., Caraway, M., Johnston, C., Ping, A., Fogarty, J., and Munson, S.A. (2016). Beyond Abandonment to Next Steps: Understanding and Designing for Life after Personal Informatics Tool Use. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2016)*. pp. 1109-1113. Acceptance Rate: 23%.
- [P.66] Karkar R., Zia J., Vilardaga R., Mishra S.R., Fogarty J., Munson S.A., Kientz J.A. (2016). A Framework for Self-Experimentation in Personalized Health. *Journal of the American Medical Informatics Association (JAMIA)*. Vol. 23, Iss. 3, pp. 440-448.
- [P.65] Zia, J., Schroeder, J., Munson, S.A., Fogarty, J., Nguyen, L., Barney, P., Heitkemper, M., Ladabaum, U. (2016). Feasibility and Usability Pilot Study of a Novel Irritable Bowel Syndrome Food and Gastrointestinal Symptom Journal Smartphone App. *Clinical and Translational Gastroenterology*. Vol. 7, Iss. 3, e147.
- [P.64]  Chung, C., Dew, K., Cole, A., Zia, J., Fogarty, J., Kientz, J.A., and Munson, S.A. (2016). Boundary Negotiating Artifacts in Personal Informatics: Patient-Provider Collaboration with Patient-Generated Data. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2016)*. pp. 768-784. Acceptance Rate: 25%. Best Paper Award.

- [P.63] Huang, D., Zhang, X., Saponas, T.S., Fogarty, J., Gollakota, S. (2015). Leveraging Dual-Observable Input for Fine-Grained Thumb Interaction Using Forearm EMG. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2015). pp. 523-528. Acceptance Rate: 24%.
- [P.62] Epstein, D.A., Ping, A., Fogarty, J., Munson, S.A. (2015). A Lived Informatics Model of Personal Informatics. Proceedings of the International Conference on Pervasive and Ubiquitous Computing (UbiComp 2015). pp. 731-742. Acceptance Rate: 23%.
- [P.61] Cordeiro, F., Bales, E., Cherry, E., and Fogarty, J. (2015). Rethinking the Mobile Food Journal: Exploring Opportunities for Lightweight Photo-Based Capture. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2015). pp. 3207-3216. Acceptance Rate: 23%.
-  [P.60] Cordeiro, F., Epstein, D., Thomaz, E., Bales, E., Jagannathan, A.K., Abowd, G., and Fogarty, J. (2015). Barriers and Negative Nudges: Exploring Challenges in Food Journaling. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2015). pp. 1159-1162. Acceptance Rate: 23%. Best Paper Honorable Mention.
- [P.59] Dixon, M., Nied, A.C., and Fogarty, J. (2014). Prefab Layers and Annotations: Extensible Pixel-Based Interpretation of Graphical Interfaces. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2014). pp. 221-230. Acceptance Rate: 22%.
- [P.58] Epstein, D.A., Cordeiro, F., Bales, E., Fogarty, J., and Munson, S.A. (2014). Taming Data Complexity in Lifelogs: Exploring Visual Cuts of Personal Informatics Data. Proceedings of the ACM Conference on Designing Interactive Systems (DIS 2014). pp. 667-676. Acceptance Rate: 27%.
- [P.57] Hipke, K., Toomim, M., Fiebrink, R., and Fogarty, J. (2014). BeatBox: End-User Interactive Definition and Training of Recognizers for Percussive Vocalizations. Proceedings of the International Conference on Advanced Visual Interfaces (AVI 2014). pp. 121-124. Acceptance Rate: 28%.
- [P.56] Dixon, M., Laput, G., and Fogarty, J. (2014). Pixel-Based Methods for Widget State and Style in a Runtime Implementation of Sliding Widgets. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2014). pp. 2231-2240. Acceptance Rate: 23%.
-  [P.55] Lü, H., Fogarty, J., and Li, Y. (2014). Gesture Script: Recognizing Gestures and their Structure using Rendering Scripts and Interactively Trained Parts. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2014). pp. 1685-1694. Acceptance Rate: 23%. Best Paper Honorable Mention.
- [P.54] Epstein, D.A., Borning, A., and Fogarty, J. (2013). Fine-Grained Sharing of Sensed Physical Activity: A Value Sensitive Approach. Proceedings of the International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2013), pp. 489-498. Acceptance Rate: 23%.
- [P.53] Andrew, A., Borriello, G., and Fogarty, J. (2013). Simplifying Mobile Phone Food Diaries: Design and Evaluation of a Food Index-Based Nutrition Diary. Proceedings of the International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2013), pp. 260-263. Acceptance Rate: 27%.
- [P.52] Roesner, F., Fogarty, J., and Kohno, T. (2012). User Interface Toolkit Mechanisms for Securing Interface Elements. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2012), pp. 239-250. Acceptance Rate: 22%.
- [P.51] Munson, S.A., Avrahami, D., Consolvo, S., Fogarty, J., Friedman, B., Smith, I. (2012). Sunlight or Sunburn: A Survey of Attitudes toward Online Availability of US Public Records. Information Polity, July 2012, Vol. 17, No. 2, pp. 99-114.
- [P.50] Dixon, M., Fogarty, J., and Wobbrock, J.O. (2012). A General-Purpose Target-Aware Pointing Enhancement Using Pixel-Level Analysis of Graphical Interfaces. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2012), pp. 3167-3176. Acceptance Rate: 23%.
- [P.49] Amershi, S., Fogarty, J., and Weld, D.S. (2012). ReGroup: Interactive Machine Learning for On-Demand Group Creation in Social Networks. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2012), pp. 21-30. Acceptance Rate: 23%.
- [P.48] Larson, E., Froehlich, J., Campbell, T., Haggerty, C., Atlas, L., Fogarty, J., Patel, S.N. (2012). Disaggregated Water Sensing from a Single, Pressure-Based Sensor: An Extended Analysis of HydroSense using Staged Experiments. Pervasive and Mobile Computing, Vol. 8, No. 1, February 2012, pp. 82-102.
- [P.47] Ziola, R., Grampurohit, S., Landes, N., Fogarty, J., and Harrison, B. (2011). Examining Interaction with General-Purpose Object Recognition in LEGO OASIS. Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2011), pp. 65-68. Acceptance Rate: 33%.
- [P.46] Amershi, S., Fogarty, J., Kapoor, A., and Tan, D.S. (2011). Effective End-User Interaction with Machine Learning. Proceedings of AAAI Conference on Artificial Intelligence (AAAI 2011), Nectar Track, pp. 1529-1532. Acceptance Rate: 31%.
- [P.45] Patel, K., Drucker, S.M., Fogarty, J., Kapoor, A., Tan, D.S. (2011). Using Multiple Models to Understand Data. Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI 2011), pp. 1723-1728. Acceptance Rate: 17%.

- [P.44] Cooper, S., Khatib, F., Makedon, I., Lü, H., Barbero, J., Baker, D., Fogarty, J., and Popović (2011). Analysis of Social Gameplay Macros in the Foldit Cookbook. Proceedings of the International Conference on the Foundations of Digital Games (FDG 2011), pp. 9-14. Acceptance Rate: 30%.
- [P.43]  Munson, S.A., Avrahami, D., Consolvo, S., Fogarty, J., Friedman, B., and Smith, I. (2011). Attitudes Toward Online Availability of US Public Records. Proceedings of the Conference on Digital Government Research (dg.o 2011), pp. 2-9. Acceptance Rate: 75%. Best Paper Award.
- [P.42] Froehlich, J., Larson, E., Saba, E., Campbell, T., Atlas, L., Fogarty, J., and Patel, S. (2011). A Longitudinal Study of Pressure Sensing to Infer Real-World Water Usage Events in the Home. Proceedings of the International Conference on Pervasive Computing (Pervasive 2011), pp. 50-69. Acceptance Rate: 24%.
- [P.41] Dixon, M., Leventhal, D., and Fogarty, J. (2011). Content and Hierarchy in Pixel-Based Methods for Reverse Engineering Interface Structure. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2011), pp. 969-978. Acceptance Rate: 26%.
- [P.40] Grochow, K., Stoermer, M., Fogarty, J., Lee, C.P., Howe, B., Lazowska, E. (2010). COVE: A Visual Environment for Multidisciplinary Ocean Science Collaboration. Proceedings of the IEEE International Conference on e-Science. pp. 269-276.
- [P.39] Patel, K., Bancroft, N., Drucker, S., Fogarty, J., Ko, A., and Landay, J.A. (2010). Gestalt: Integrated Support for Implementation and Analysis in Machine Learning Processes. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2010), pp. 37-46. Acceptance Rate: 18%.
- [P.38] Welbourne, E., Balazinska, M., Borriello, G., and Fogarty, J. (2010). Specification and Verification of Complex Location Events with Panoramic. Proceedings of the International Conference on Pervasive Computing (Pervasive 2010), pp. 57-75. Acceptance Rate: 17%.
- [P.37] Kriplean, T., Borning, A., Waddell, P., Klang, C. and Fogarty, J. (2010). Supporting Agile Modeling through Experimentation in an Integrated Urban Simulation Framework. Proceedings of the Conference on Digital Government Research (dg.o 2010), pp. 112-121. Acceptance Rate: 54%.
- [P.36]  Dixon, M. and Fogarty, J. (2010). Prefab: Implementing Advanced Behaviors Using Pixel-Based Reverse Engineering of Interface Structure. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2010), pp. 1525-1534. Acceptance Rate: 22%. Best Paper Award.
- [P.35] Amershi, S., Fogarty, J., Kapoor, A., and Tan, D. (2010). Examining Multiple Potential Models in End-User Interactive Concept Learning. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2010), pp. 1357-1360. Acceptance Rate: 22%.
- [P.34] Lin, T., Etzioni, O., and Fogarty, J. (2009). Identifying Interesting Assertions from the Web. Proceedings of the ACM Conference on Information and Knowledge Management (CIKM 2009), pp. 1787-1790. Acceptance Rate: 35%.
- [P.33] Amershi, S., Fogarty, J., Kapoor, A., and Tan, D. (2009). Overview-Based Example Selection in End-User Interactive Concept Learning. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2009), pp. 247-256. Acceptance Rate: 18%.
- [P.32]  Froehlich, J., Larson, E., Campbell, T., Haggerty, C., Fogarty, J., and Patel, S.N. (2009). HydroSense: Infrastructure-Mediated Single-Point Sensing of Whole-Home Water Activity. Proceedings of the International Conference on Ubiquitous Computing (UbiComp 2009), pp. 235-244. Acceptance Rate: 12%. Best Paper Honorable Mention.
- [P.31]  Hoffmann, R., Amershi, S., Patel, K., Wu, F., Fogarty, J., and Weld, D.S. (2009). Amplifying Community Content Creation with Mixed-Initiative Information Extraction. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2009), pp. 1849-1858. Acceptance Rate: 24%. Best Paper Honorable Mention.
- [P.30] Everitt, K.M., Bragin, T., Fogarty, J., and Kohno, T. (2009). A Comprehensive Study of Frequency, Interference, and Training of Multiple Graphical Passwords. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2009), pp. 889-898. Acceptance Rate: 24%.
- [P.29] Wobbrock, J.O., Fogarty, J., Liu, S., Kimuro, S., and Harada, S. (2009). The Angle Mouse: Target-Agnostic Dynamic Gain Adjustment Based on Angular Deviation. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2009), pp. 1401-1410. Acceptance Rate: 24%.
- [P.28] Campbell, T., Ngo, B., and Fogarty, J. (2008). Game Design Principles in Everyday Fitness Applications. Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2008), pp. 249-252. Acceptance Rate: 23%.
- [P.27] Adar, E., Dontcheva, M., Fogarty, J., and Weld, D.S. Zoetrope: Interacting with the Ephemeral Web. (2008). Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2008), pp. 239-248. Acceptance Rate: 19%.
- [P.26] Harada, S., Lester, J., Patel, K., Saponas, T.S., Fogarty, J., Landay, J.A., and Wobbrock, J.O. VoiceLabel: Using Speech to Label Mobile Sensor Data. (2008). Proceedings of the International Conference on Multimodal Interfaces (ICMI 2008), pp. 69-76. Acceptance Rate: 47%.
- [P.25] Patel, K., Fogarty, J., Landay, J.A., and Harrison, B. (2008). Examining Difficulties Software Developers Encounter in the Adoption of Statistical Machine Learning. Proceedings of AAAI Conference on Artificial Intelligence (AAAI 2008), Nectar Track, pp. 1563-1566. Acceptance Rate: 22%.

- [P.24] Weld, D.S., Wu, F., Adar, E., Amershi, S., Fogarty, J., Hoffmann, R., Patel, K., and Skinner, M. (2008). Intelligence in Wikipedia. Proceedings of AAAI Conference on Artificial Intelligence (AAAI 2008), Senior Papers Track, pp. 1609-1614. Acceptance Rate: 40%.
- [P.23] Lü, H. and Fogarty, J. (2008). Cascaded Treemaps: Examining the Visibility and Stability of Structure in Treemaps. Proceedings of Graphics Interface (GI 2008), pp. 259-266. Acceptance Rate: 38%.
- [P.22] Fogarty, J., Tan, D., Kapoor, A., and Winder, S. (2008). CueFlik: Interactive Concept Learning in Image Search. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2008), pp. 29-38. Acceptance Rate: 22%.
- [P.21] Patel, K., Fogarty, J., Landay, J.A., and Harrison, B. (2008). Investigating Statistical Machine Learning as a Tool for Software Development. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2008), pp. 667-676. Acceptance Rate: 22%.
- [P.20] Toomim, M., Zhang, X., Fogarty, J., and Landay, J.A. (2008). Access Control by Testing for Shared Knowledge. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2008), pp. 193-196. Acceptance Rate: 18%.
- [P.19] Hoffmann, R., Fogarty, J., and Weld, D.S. (2007). Assieme: Finding and Leveraging Implicit References in a Web Search Interface for Programmers. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2007), pp. 13-22. Acceptance Rate: 17%.
- [P.18] Fogarty, J. and Hudson, S.E. (2007). Toolkit Support for Developing and Deploying Sensor-Based Statistical Models of Human Situations. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2007), pp. 135-144. Acceptance Rate: 24%.
- [P.17] Avrahami, D., Fogarty, J., and Hudson, S.E. (2007). Biases in Human Estimation of Interruptibility: Effects and Implications for Practice. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2007), pp. 51-60. Acceptance Rate: 24%.
- [P.16] Tullio, J., Dey, A.K., Chalecki, J., and Fogarty, J. (2007). How it Works: A Field Study of Non-Technical Users Interacting with an Intelligent System. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2007), pp. 31-40. Acceptance Rate: 24%.
- [P.15] Andrew, A., Borriello, G., and Fogarty, J. (2007). Toward a Systematic Understanding of Suggestion Tactics in Persuasion Technologies. Proceedings of the Conference on Persuasive Technology (Persuasive 2007), pp. 259-270. Acceptance Rate: 44%.
- [P.14] Fogarty, J., Au, C., and Hudson, S.E. (2006). Sensing from the Basement: A Feasibility Study of Unobtrusive and Low-Cost Home Activity Recognition. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2006), pp. 91-100. Acceptance Rate: 22%.
- [P.13] Tang, K.P., Keyani, P., Fogarty, J., and Hong, J.I. (2006). Putting People in their Place: An Anonymous and Privacy-Sensitive Approach to Collecting Sensed Data in Location-Based Applications. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2006), pp. 93-102. Acceptance Rate: 23%.
- [P.12] Fogarty, J., Baker, R.S., and Hudson, S.E. (2005). Case Studies in the use of ROC Curve Analysis for Sensor-Based Estimates in Human Computer Interaction. Proceedings of Graphics Interface (GI 2005), pp. 129-136. Acceptance Rate: 28%.
- [P.11]  Fogarty, J., Ko, A.J., Aung, H.H., Golden, E., Tang, K.P., and Hudson, S.E. (2005). Examining Task Engagement in Sensor-Based Statistical Models of Human Interruptibility. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2005), pp. 331-340. Acceptance Rate: 25%. Best Paper Award.
- [P.10] Fogarty, J., Hudson, S.E., Atkeson, C.G., Avrahami, D., Forlizzi, J., Kiesler, S., Lee, J.C., and Yang, J. (2005). Predicting Human Interruptibility with Sensors. ACM Transactions on Computer-Human Interaction (TOCHI), Vol. 12, No. 1, March 2005, pp. 119-146.
- [P.9] Fogarty, J., Lai, J., and Christensen, J. (2004). Presence versus Availability: The Design and Evaluation of a Context-Aware Communication Client. International Journal of Human-Computer Studies (IJHCS), Vol. 61, No. 3, September 2004, pp. 299-317.
- [P.8] Fogarty, J., Hudson, S.E., and Lai, J. (2004). Examining the Robustness of Sensor-Based Statistical Models of Human Interruptibility. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2004), pp. 207-214. Acceptance Rate: 16%.
- [P.7]  Fogarty, J. and Hudson, S.E. (2003). GADGET: A Toolkit for Optimization-Based Approaches to Interface and Display Generation. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2003), pp. 125-134. Acceptance Rate: 21%. "Best of UIST" SIGGRAPH Invitee.
- [P.6] Fogarty, J., Forlizzi, J., and Hudson, S.E. (2003). Portrait: Generating Personal Presentations. Proceedings of Graphics Interface (GI 2003), pp. 209-216. Acceptance Rate: 33%.
- [P.5] Hudson, S.E., Fogarty, J., Atkeson, C.G., Avrahami, D., Forlizzi, J., Kiesler, S., Lee, J.C., and Yang, J. (2003). Predicting Human Interruptibility with Sensors: A Wizard of Oz Feasibility Study. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2003), pp. 257-264. Acceptance Rate: 16%.
- [P.4] Fogarty, J., Forlizzi, J., and Hudson, S.E. (2002). Specifying Behavior and Semantic Meaning in an Unmodified Layered Drawing Package. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2002), pp. 61-70. Acceptance Rate: 22%.

- [P.3] Fogarty, J., Forlizzi, J., and Hudson, S.E. (2001). Aesthetic Information Collages: Generating Decorative Displays that Contain Information. *Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2001)*, pp. 141-150. Acceptance Rate: 19%.
- [P.2] Fogarty, J., Dabbish, L., Steck, D., and Mostow, J. (2001). Mining a Database of Reading Mistakes: For What Should an Automated Reading Tutor LISTEN? In J.D. Moore, C.L. Redfield, and W.L. Johnson (Eds.), *Artificial Intelligence in Education: AI-ED in the Wired and Wireless Future (AI-ED 2001)*, pp. 422-433. Acceptance Rate: 45%.
- [P.1] Carroll, J.M., Rosson, M.B., Isenhour, P., Ganoë, C., Dunlap, D., Fogarty, J., Schafer, W., and Van Metre, C. (2001). Designing Our Town: MOOsburg. *International Journal of Human-Computer Studies (IJHCS)*, Vol. 54, No. 5, May 2001, pp. 725-751.

INVITED KEYNOTES

- [K.4] Self-Tracking in Health: Design Challenges and Opportunities
Keynote for University of Washington Center for Innovation in Sleep Self-Management Annual Workshop, May 6, 2021
- [K.3] Self-Tracking in Health: Design Challenges and Opportunities
Keynote for New York University Center for Precision Health in Diverse Populations, September 24, 2020
- [K.2] Self-Tracking in Health: Design Challenges and Opportunities
Keynote for National Institute of Nursing Research Center Directors Meeting, May 7, 2019
- [K.1] Everyday Interaction with Machine Learning
Keynote for HCI Korea 2018, February 1, 2018

INVITED TALKS

- [I.32] Self-Tracking in Health: Design Challenges and Opportunities
University of Washington BRITE Center, September 16, 2020
- [I.31] Toward Large-Scale Android Accessibility Analyses and Repair
Google Machine Learning for Accessibility Workshop, October 15, 2019
- [I.30] Self-Tracking in Health: Design Challenges and Opportunities
Pomona College, March 28, 2019
- [I.29] Interaction and Intelligence
Microsoft Research Principles of Intelligence, August 24, 2018
- [I.28] Defining the Language of Interaction
Human-Computer Interaction Consortium Annual Workshop, June 26, 2018
- [I.27] The Data is the Interaction
University of Washington / Microsoft Research Summer Institute, August 1, 2017
- [I.26] Unlocking Data, Unlocking Interaction
Carnegie Mellon University, December 2, 2016
- [I.25] Unlocking Data, Unlocking Interaction
Rochester Institute of Technology, November 30, 2016
- [I.24] Unlocking Data, Unlocking Interaction
University of Washington DUB Seminar, October 12, 2016
- [I.23] Unlocking Data, Unlocking Interaction
Virginia Tech, October 7, 2016
- [I.22] Unlocking Data, Unlocking Interaction
Georgia Tech, September 22, 2016
- [I.21] Unlocking Data, Unlocking Interaction
University of California, Irvine, February 19, 2016
- [I.20] Getting Personal with Personal Informatics
Yahoo, December 10, 2015
- [I.19] Engineering Interaction
Carnegie Mellon University HCI Institute 20th Anniversary Celebration, November 15, 2014
- [I.18] Prefab: What if Anybody Could Modify Any Interface?
Institute of Information Science and Technology, Italian National Research Council, September 24, 2013

- [I.17] Scaling Interaction using Machine Learning
Microsoft Research Faculty Summit, July 15, 2013
- [I.16] Interacting with Machine Learning
Dagstuhl Seminar on Human Activity Recognition in Smart Environments, December 7, 2012
- [I.15] End-User Interactive Machine Learning
Georgia Tech, November 18, 2011
- [I.14] Prefab: What if Anybody Could Modify Any Interface?
Oregon State, November 7, 2011
- [I.13] When Code is not the Contribution
Human-Computer Interaction Consortium Annual Workshop, June 15, 2011
- [I.12] The Future of Interactive Software: Machine Learning is Our Only Hope
Computer Human Interaction Mentoring (CHIME) Workshop, April 9, 2010
- [I.11] Interacting with Machine Learning: From the Web to Software Development
FXPAL, March 12, 2010
- [I.10] Interacting with Machine Learning: From the Web to Software Development
Yahoo! Research, September 22, 2009
- [I.9] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
University of Toronto, May 4, 2006
- [I.8] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
Purdue University, April 12, 2006
- [I.7] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
University of Wisconsin, March 23, 2006
- [I.6] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
Intel Research, Seattle, March 20, 2006
- [I.5] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
University of Washington, March 7, 2006
- [I.4] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
University of California, Berkeley, March 2, 2006
- [I.3] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
University of Illinois, Urbana-Champaign, February 21, 2006
- [I.2] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
Palo Alto Research Center, February 16, 2006
- [I.1] Constructing and Evaluating Sensor-Based Statistical Models of Human Interruptibility
Microsoft Research, Feb 8, 2006

CURRENT GRANTS AND FUNDED CENTERS

- [G.43] Using Technology to Optimize Collaborative Care Management of Depression in Urban and Rural Cancer Centers
National Cancer Institute (NCI)
July 2020, \$3,154,367, Award #R01-CA244171
Co-I, with PI Jesse Fann and others
- [G.42] Center for Research and Education on Accessible Technology and Experiences (CREATE)
May 2020, Initial \$2,500,000 Gift from Microsoft
Associate Director, with Directors Jennifer Mankoff, Jacob Wobbrock, and others
- [G.41] Evaluating a Novel, Portable, Self-Administered Device ("Flicker App")
that Measures Critical Flicker Frequency as a Test for Minimal Hepatic Encephalopathy in Cirrhosis
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
June 2019, \$410,970, Award #R21-DK117431
Co-PI, with Co-PI George Ioannou, Co-Is Sean Munson, Jasmine Zia
- [G.40] Open Tools for Self-Tracking, Self-Experimentation, and Patient-Provider Collaboration in Symptom Self-Management and Clinical Care
National Library of Medicine (NLM)
September 2018, \$1,278,995, Award #R01-LM012810
PI, with Co-Is Julie Kientz, Jeff Heer, Sean Munson, Wanda Pratt

- [G.39] UW ALACRITY Center for Psychosocial Interventions Research
National Institute of Mental Health (NIMH)
May 2018, \$6,359,851, Award #P50-MH115837
Co-I, with PI Pat Arean and others
- [G.38] Support for Self-Tracking and Patient-Provider Collaboration Using Data for Multiple and Evolving Goals in People with Migraine
National Science Foundation, Cyber-Human Systems
September 2018, \$523,795, Award #IIS-1813675
PI, with Co-I Allison Cole
- [G.37] Improving the Accessibility of Mobile Applications by Enabling Third-Party Assessment, Repair, and Enhancement
National Science Foundation, Human-Centered Computing
September 2017, \$1,631,547, Award #IIS-1702751
PI, with Co-PIs Jacob Wobbrock, Richard Ladner, Anat Caspi

PRIOR GRANTS AND GIFTS

- [G.36] Toward Open Tools for Large-Scale Third-Party Identification and Repair of Android Application Accessibility Failures
Google Faculty Research Award
March 2020, \$76,502
PI
- [G.35] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-1813675
March 2020, \$8,000
PI
- [G.34] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-1702751
March 2020, \$16,000
PI
- [G.33] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-1813675
March 2019, \$16,000
PI
- [G.32] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-1702751
March 2019, \$8,000
PI
- [G.31] Unrestricted Support of Research Activities
Adobe Research
September 2017, \$10,000
PI
- [G.30] Interaction Proxies for Third-Party Repair of Android Application Accessibility
Google Faculty Research Award
February 2017, \$74,436
PI, with Co-I Anat Caspi
- [G.29] A Connected Approach to Personalized Mobile Health
University of Washington Innovation Research Award
January 2015, \$499,524
PI, with Co-PIs Julie Kientz, Sean Munson, Shwetak Patel, Roger Vilardaga, Jasmine Zia
- [G.28] Enabling Effective Interaction with Sensed Activity Data in Personal Informatics
Nokia Research
December 2014, €25,000
PI
- [G.27] Sharing Patient Lifelog Data with the Primary Care Team for Two Patient Populations: Preventative Care & Chronic Disease Management
Agency for Healthcare Research & Quality
September 2014, \$297,346, Award #R21HS023654
Co-I, with PI Sean Munson, Co-Is Julie Kientz, Jasmine Zia, Allison Cole

- [G.26] Supporting Healthy Sleep Behaviors through Ubiquitous Computing
National Science Foundation, Smart and Connected Health
January 2014, \$1,384,217, Award #SCH-1344613
Co-PI, with PI Julie Kientz, Co-PIs Nathaniel Watson, Carol Landis
- [G.25] GestureScript: Creating Gesture Recognizers using Examples and Rendering Scripts
Google Faculty Research Award
March 2013, \$61,429
PI
- [G.24] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-1053868
March 2012, \$16,000
PI
- [G.23] Intel Science and Technology Center for Pervasive Computing
September 2011, \$5,100,000
Co-I, with PI Dieter Fox and others
- [G.22] A Framework for Re-Use in Human Computation
Intel Research
September 2011, \$25,000
PI
- [G.21] Development Tools for Machine Learning
Google Faculty Research Award
May 2011, \$64,000
PI
- [G.20] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-1053868
March 2011, \$8,000
PI
- [G.19] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-0812590
March 2011, \$16,000
PI
- [G.18] Pixel-Based Interpretation and Modification of Graphical User Interfaces
National Science Foundation, CAREER via Human-Centered Computing
March 2011, \$565,060, Award #IIS-1053868
PI
- [G.17] Designing Effective Interaction with Machine Learning
FXPAL
February 2011, \$15,000
PI
- [G.16] Designing Effective Interaction with Machine Learning
Microsoft Research
January 2011, \$15,000
PI
- [G.15] Transforming Community-Based Elder Care through Heterogeneous Activity Sensing Analytics
National Science Foundation, Cyber-Enabled Discovery and Innovation
September 2010, \$1,496,888, Award #OAI-1028195
Co-PI, with PI Magdalena Balazinska, Co-PIs George Demiris, Shwetak Patel
- [G.14] OASIS: Object-Aware Situated Interactive Systems
Intel Research
September 2010, \$37,000
PI
- [G.13] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-0812590
June 2010, \$16,000
PI

- [G.12] OASIS: Object-Aware Situated Interactive Systems
Intel Research
April 2010, \$12,000
PI
- [G.11] Designing Effective Interaction with Machine Learning
Microsoft Research
April 2010, \$10,000
PI
- [G.10] Designing Effective Interaction with Machine Learning
FXPAL
March 2010, \$12,000
PI
- [G.9] Example-Based Interactive Concept Learning
Google Faculty Research Award
December 2009, \$50,000
PI
- [G.8] Reverse Engineering Interfaces from Pixels and Teaching Future User Interface Architectures
Intel Higher Education Program
September 2009, \$25,000
PI
- [G.7] Research Experiences for Undergraduates Supplement
National Science Foundation, for Award #IIS-0812590
May 2009, \$24,000
PI
- [G.6] HydroSense Application for College of Engineering Prototype Funds
UW Environmental Innovation Challenge
January 2009, \$5,900
Co-I, with PI Jon Froehlich, Co-Is James Landay, Shwetak Patel
- [G.5] Machine Learning for Ubiquitous Computing, Human-Computer Interaction, and Associated User Studies
Intel Research
September 2008, \$25,000
PI
- [G.4] Investigating and Supporting the Iterative and Exploratory Process of Applying Statistical Machine Learning
National Science Foundation, Award #IIS-0812590, Human-Centered Computing
September 2008, \$449,527
PI
- [G.3] A Semi-Private Internet via Shared Knowledge Tests
University of Washington Technology Gap Innovation Fund
June 2008, \$49,922
PI, with Co-PI James Landay
- [G.2] Machine Learning Workstations for Ubiquitous Computing and Human Computer Interaction
Intel Higher Education Program
June 2007, \$12,237
PI
- [G.1] Integrating Sensor-Based Statistical Models of Human Situations into Everyday Applications
Intel Research
December 2006, \$30,000
PI

PUBLISHED PATENTS

- [T.6] Ioannou, G., Fogarty, J., Zia, J., Kocielnik, R., Karkar, R., Munson, S., Zhang, X. Methods and Systems for Self-Administered Measurement of Critical Flicker Frequency (CFF). United States Patent US20210068733A1.
- [T.5] Fogarty, J., Dixon, M., and Leventhal, D. Pixel-Based Interpretation and Modification of Graphical User Interfaces. United States Patent US9182981.
- [T.4] Drucker, S.M., Patel, K., Tan, D.S., Kapoor, A., and Fogarty, J. Exploring Data Using Multiple Machine-Learning Models. United States Patent US8595153.

- [T.3] Patel, S., Fogarty, J., Froehlich, J., and Larson, E. Sensing Events Affecting Liquid Flow in a Liquid Distribution System. United States Patent US8457908.
- [T.2] Toomim, M., Fogarty, J., Landay, J., Morris, N., Zhang, X., Kohno, T. Access Control by Testing for Shared Knowledge. United States Patent US8387122.
- [T.1] Tan, D.S., Kapoor, A., Winder, S.A.J., Fogarty, J. Interactive Concept Learning in Image Search. United States Patent US8165406.

CURRENT POSTDOCTORAL SUPERVISION

Ravi Karkar

Postdoctoral Researcher, Co-Supervised with Gary Hsieh

Autumn 2020 – Summer 2022

PhD, Computer Science & Engineering

Autumn 2014 – Summer 2020

“Designing Personal Health Technologies for Translating Population-Level Evidence into Personal Understanding”

Expected Initial Position: Autumn 2022, Assistant Professor, Information & Computer Science, University of Massachusetts

CURRENT DOCTORAL SUPERVISION

Shaan Chopra

PhD, Computer Science & Engineering, Co-Supervised with Sean Munson

Autumn 2021 – Present

Raymond Fok

PhD, Computer Science & Engineering, Co-Supervised with Daniel Weld

Autumn 2019 – Present

Tae Jones

PhD, Computer Science & Engineering, Co-Supervised with Sean Munson

Autumn 2021 – Present

Aaleyah Lewis

PhD, Computer Science & Engineering

Autumn 2021 – Present

Richard Li

PhD, Computer Science & Engineering, Co-Supervised with Shwetak Patel

Autumn 2019 – Present

Jesse Martinez

PhD, Computer Science & Engineering

Autumn 2019 – Present

Anant Mittal

PhD, Computer Science & Engineering

Autumn 2021 – Present

Yasaman Sefidgar

PhD, Computer Science & Engineering

Autumn 2020 – Present

Jina Suh

PhD, Computer Science & Engineering, Co-Supervised with Tim Althoff

Autumn 2018 – Present

Mingyuan Zhong

PhD, Computer Science & Engineering, Co-Supervised with Jacob Wobbrock

Autumn 2018 – Present

PRIOR DOCTORAL AND POSTDOCTORAL SUPERVISION

Alex Okeson

PhD, Computer Science & Engineering

Winter 2019 – Spring 2022

Anne Spencer Ross

PhD, Computer Science & Engineering, Co-Supervised with Jacob Wobbrock

Autumn 2015 – Summer 2021

Initial and Current Position: Assistant Professor, Computer Science, Bucknell University

Jessica Schroeder

PhD, Computer Science & Engineering, Co-Supervised with Sean Munson

Spring 2015 – Summer 2020

“Goal-Directed Self-Tracking in the Management of Chronic Health Conditions”

Initial Position: Research Scientist, Evidation Health

Current Position: User Experience Researcher, Google

Amanda Swearngin

PhD, Computer Science & Engineering, Co-Supervised with Amy Ko

Autumn 2015 – Autumn 2019

“Expanding Interface Design Capabilities through Semantic and Data-Driven Analyses”

Initial Position: AI and Accessibility Researcher, Apple

Current Position: Senior Research Engineer, Apple

Xiaoyi Zhang PhD, Computer Science & Engineering “Runtime Repair and Enhancement of Mobile App Accessibility” Initial Position: AI and Accessibility Researcher, Apple Current Position: Senior AI and Accessibility Researcher, Apple	Autumn 2014 – Autumn 2018
Daniel Epstein PhD, Computer Science & Engineering, Co-Supervised with Sean Munson “Everyday Personal Informatics” Initial and Current Position: Assistant Professor, Informatics, University of California Irvine	Autumn 2012 – Spring 2018
Kit Kuksenok PhD, Computer Science & Engineering, Co-Supervised with Cecilia Aragon “Influence apart from Adoption: How Interaction between Programming and Scientific Practices Shapes Modes of Inquiry in Four Oceanography Teams” Initial Position: Postdoctoral Researcher, Hasso Plattner Institute Current Position: Principal Data Analyst, Phiture	Autumn 2012 – Spring 2018
Laura Pina Postdoctoral Researcher, Co-Supervised with Julie Kientz Initial Position: User Experience Researcher, Google Current Position: Senior User Experience Researcher, Snowflake	Autumn 2015 – Spring 2018
Morgan Dixon PhD, Computer Science & Engineering “Pixel-Based Reverse Engineering of Graphical Interfaces” Initial Position: Research Scientist, Adobe Research Current Position: User Experience Engineer, Google	Autumn 2008 – Spring 2015
Hao Lü PhD, Computer Science & Engineering “Enhancing Demonstration-Based Recognition Tools with Interactive Declarative Guidance for Authoring Touch Gestures” Initial Position: Research Scientist, Google Research Current Position: Chief Innovation Officer, YITU Technology	Autumn 2007 – Spring 2014
Elizabeth Bales Postdoctoral Researcher, Co-Supervised with Julie Kientz Initial and Current Position: Software Engineer, Google	Summer 2013 – Spring 2014
Adrienne Slaughter (Adrienne Andrew) PhD, Computer Science & Engineering, Co-Supervised with Gaetano Borriello “Approaches to Food Journaling on Mobile Devices” Initial Position: Software Scientist, ARO Current Position: Senior Research and Development Engineer, Prove	Summer 2007 – Autumn 2012
Kayur Patel PhD, Computer Science & Engineering, Co-Supervised with James Landay “Lowering the Barrier to Applying Machine Learning” Initial Position: Software Engineer, Google Current Position: Research Scientist, Apple	Winter 2007 – Summer 2012
Saleema Amershi PhD, Computer Science & Engineering “Designing for Effective End-User Interaction with Machine Learning” Initial Position: Researcher, Microsoft Research Current Position: Senior Principal Research Manager, Microsoft Research	Winter 2007 – Summer 2012
Rebecca Fiebrink Postdoctoral Researcher Initial Position: Assistant Professor, Computer Science, Princeton University Current Position: Professor, Creative Computing Institute, University of the Arts London	Winter 2011 – Summer 2011