

Elizabeth L. Murnane

Postdoctoral Scholar
Computer Science, Stanford University

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Education

- 2011 – 2017 **Cornell University**, Ithaca, NY
Ph.D., M.S., Information Science
Dissertation: *A Framework for Domain-Driven Development of Personal Health Informatics Technologies*
Committee: Profs. Dan Cosley (Chair), Geri Gay, Claire Cardie
- 2003 – 2007 **Massachusetts Institute of Technology**, Cambridge, MA
S.B., Mathematics with Computer Science

Research Experience and Employment

- 7/2020 – **Dartmouth College**, Hanover, NH
Charles H. Gaut & Charles A. Norberg Assistant Professor of Engineering, Thayer School of Engineering
- 9/2017 – present **Stanford University**, Stanford, CA
Postdoctoral Scholar, Computer Science; Supervisor: Prof. James Landay
- 1/2017 – 8/2017 **Cornell University**, Ithaca, NY
Postdoctoral Researcher, Information Science; Supervisor: Prof. Geri Gay
- 8/2011 – 1/2017 **Cornell University**, Ithaca, NY
Graduate Researcher, Information Science; Advisors: Profs. Dan Cosley, Geri Gay
- 9/2015 – 12/2015 **University of Washington**, Seattle, WA
Visiting Graduate Researcher, CSE & HCDE; Advisors: Profs. Julie Kientz, James Fogarty
- 5/2014 – 8/2014 **Google**, Mountain View, CA
Research Intern, Better Cities Group; Advisors: Drs. Gueorgi Kossinets, David Huffaker
- 5/2013 – 8/2013 **Microsoft Research**, Redmond, WA
Research Intern, Nexus Group; Advisor: Dr. Scott Counts
- 2007 – 2011 **Architexa**, Cambridge, MA
Co-founder, Lead Engineer, and Head of Experimental Features
- 2006 – 2007 **Massachusetts Institute of Technology**, Cambridge, MA
Undergraduate Researcher, Computer Science and Artificial Intelligence Lab (CSAIL)
Haystack Group, Spoken Language Systems Group
- 2005 – 2006 **World Wide Web Consortium**, Cambridge, MA
Software Engineer

Teaching Experience

- Fall 18, Winter 19 **Stanford University**, Stanford, CA
CS337/MED277: AI-Assisted Health Care – Course Advisor and Lecturer
- Cornell University**, Ithaca, NY
- Spring 2017 CU-CIRTL: Building Mentoring Skills for an Academic Career – Training and Certification
- Fall 2013 CS4300: Information Retrieval – Teaching Assistant
- Spring 2013 INFO6010: Computational Methods for Information Science Research – Guest Lecturer
- Fall 2012 INFO3450: Human-Computer Interaction – Teaching Assistant
- Summer 2012 COMM2450: Communication and Technology – Guest Lecturer

Publications

Book Chapters

- 2017 [B.1] Abdullah, S., **Murnane, E. L.**, Matthews, M., Choudhury, T. (2017). Circadian Computing: Sensing, Modeling, and Maintaining Biological Rhythms. In *Mobile Health: Sensors, Analytic Methods, and Applications*, editors James M. Rehg, Susan A. Murphy, Santosh Kumar. pp 35-58. Springer.

Journal Articles

- 2018 [J.6] Hohenstein, J. C., Baumer, E. P., Reynolds, L., **Murnane, E. L.**, O'Dell, D., Lee, S., Guha, S., Qi, Y., Rieger, E., Gay, G. (2018). Supporting Accurate Interpretation of Self-Administered Medical Test Results for Mobile Health: Assessment of Design, Demographics, and Health Condition. *Journal of Medical Internet Research Human Factors*, 5(1).
- 2017 [J.5] Hohenstein, J., O'Dell, D., **Murnane, E. L.**, Lu, Z., Erickson, D., Gay, G. (2017). Enhancing the Usability of an Optical Reader System to Support Point-of-Care Rapid Diagnostic Testing: An Iterative Design Approach. *Journal of Medical Internet Research Human Factors*, 4(4).
- [J.4] Matthews, M., **Murnane, E. L.**, Snyder, J., Guha, S., Chang, P., Doherty, G., Gay, G. (2017). The double-edged sword: A mixed methods study of the interplay between bipolar disorder and technology use. *Computers in Human Behavior*, 75, pp 288-300.
- [J.3] Matthews, M., **Murnane, E. L.**, Snyder, J. (2017). Quantifying the Changeable Self: The role of self-tracking in coming to terms with and managing bipolar disorder. *Human-Computer Interaction*, pp 1-34.
- 2016 [J.2] Matthews, M., Abdullah, S., **Murnane, E. L.**, Volda, S., Choudhury, T., Gay, G., Frank, E. (2016). Development and evaluation of a smartphone-based measure of social rhythms for bipolar disorder. *Journal of Assessment*, 23(4), pp 472-483.
- [J.1] **Murnane, E. L.**, Cosley, D., Chang, P., Guha, S., Frank, E., Gay, G., Matthews, M. (2016). Self-Monitoring Practices, Attitudes, and Needs of Individuals with Bipolar Disorder: Implications for the Design of Technologies to Manage Mental Health. *Journal of the American Medical Informatics Association*, 23(3), pp 477-484.

Refereed Full Conference Papers

- 2019 [C.16] Ruan, S., Jiang, L., Xu, J., Tham, B., Qiu, Z., Zhu, Y., **Murnane, E. L.**, Brunskill, E., Landay, J. (2019). QuizBot: A Dialogue-based Adaptive Learning System for Factual Knowledge. *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI'19)*. pp 357. ACM.
- [C.15] Sannon, S., **Murnane, E. L.**, Bazarova, N., Gay, G. (2019). "I was really, really nervous posting it": Communicating about Invisible Chronic Illness across Social Media Platforms. *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI'19)*. pp 353. ACM.
- [C.14] Snyder, J., **Murnane, E. L.**, Lustig, C., Volda, S. (2019). Visually Encoding the Lived Experience of Bipolar Disorder. *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI'19)*. pp 133. ACM.
- [C.13] Paredes, P. E., Balters, S., Qian, K., **Murnane, E. L.**, Ordonez, F., Ju, W., Landay, J. A. (2018). Driving with the Fishes: Towards Calming and Mindful Virtual Reality Experiences for the Car. *Proceedings of the ACM on Interactive Mobile Wearable and Ubiquitous Technologies (IMWUT'18)*, 2(4), 184. ACM.
- 2018 [C.12] **Murnane, E. L.**, Walker, T. G., Tench, B., Volda, S., Snyder, J. (2018). Personal Informatics in Interpersonal Contexts: Towards the Design of Technology that Supports the Social Ecologies of Long-Term Mental Health Management. *Proceedings of the ACM on Human-Computer Interaction (CSCW'18)*, 2(CSCW), 127. ACM.
🌟 **Best Paper Honorable Mention Award (Top 5%)**
🌟 **1 of 5 papers to receive Recognition of Contribution to Diversity and Inclusion**

- [C.11] Balters, S., **Murnane, E. L.**, Landay, J. A., Paredes, P. (2018). Breath Booster! Exploring In-Car, Fast-Paced Breathing Interventions to Enhance Driver Arousal State. *Proceedings of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health '18)*. pp 128-137. ACM.
- [C.10] Paredes, P. E., Zhou, Y., Hamdan, N. A. H., Balters, S., **Murnane, E. L.**, Ju, W., Landay, J. A. (2018). Just Breathe: In-Car Interventions for Guided Slow Breathing. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT'18)*, 2(1), 28. ACM.
- [C.9] Adams, A. T., **Murnane, E. L.**, Adams, P., Elfenbein, M., Chang, P. F., Sannon, S., Gay, G., Choudhury, T. (2018). Keppi: A Tangible User Interface for Self-Reporting Pain. *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI'18)*. pp 502. ACM.
- 2017 [C.8] Adams, P., **Murnane, E. L.**, Elfenbein, M., Wethington, E., Gay, G. (2017). Supporting the Self-Management of Chronic Pain Conditions with Tailored Momentary Self-Assessments. *Proceedings of the 35th Annual ACM Conference on Human Factors in Computing Systems (CHI'17)*. pp 1065-1077. ACM.
- 2016 [C.7] Abdullah, S., **Murnane, E. L.**, Matthews, M., Kay, M., Kientz, J. A., Gay, G., Choudhury, T. (2016). Cognitive Rhythms: Unobtrusive and Continuous Sensing of Alertness Using a Mobile Phone. *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp'16)*. pp 178-189. ACM.
- [C.6] **Murnane, E. L.**, Abdullah, S., Matthews, M., Kay, M., Kientz, J. A., Choudhury, T., Gay, G., Cosley, D. (2016). Mobile Manifestations of Alertness: Connecting Biological Rhythms with Patterns of Smartphone App Use. *Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI'16)*. pp 465-477. ACM.
- ✿ **Best Paper Award (top 2 papers)**
 ✿ **ACM Computing Reviews Best of 2016 Notable Article**
- [C.5] McInnis, B., **Murnane, E. L.**, Epstein, D., Cosley, D., Leshed, G. (2016). One and Done: Factors affecting one-time contributors to ad-hoc online communities. *Proceedings of the 19th ACM Conference on Computer Supported Cooperative Work e³ Social Computing (CSCW'16)*. pp 609-623. ACM.
- 2015 [C.4] **Murnane, E. L.**, Abdullah, S., Matthews, M., Choudhury, T., Gay, G. (2015). Social (media) jet lag: How usage of social technology can modulate and reflect circadian rhythms. *Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp'15)*. pp 843-854. ACM.
- [C.3] Abdullah, S., **Murnane, E. L.**, Costa, J. M., Choudhury, T. (2015). Collective Smile: Measuring Societal Happiness from Geolocated Images. *Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work e³ Social Computing (CSCW'15)*. pp 361-374. ACM.
- 2014 [C.2] Abdullah, S., Matthews, M., **Murnane, E. L.**, Gay, G., Choudhury, T. (2014). Towards circadian computing: early to bed and early to rise makes some of us unhealthy and sleep deprived. *Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp'14)*. pp 673-684. ACM.
- [C.1] **Murnane, E. L.**, Counts, S. (2014). Unraveling abstinence and relapse: smoking cessation reflected in social media. *Proceedings of the 32nd Annual ACM Conference on Human Factors in Computing Systems*. (CHI'14). pp 1345-1354. ACM.

Refereed Short Conference Papers with Posters

- 2019 [P.5] Evans, K., Zahrt, O., Crum, A., Landay, J., **Murnane, E. L.**, Santoro, E. (2019). Wearable Fitness Trackers and Their Effects on Mindsets and Health: A Longitudinal Experiment. At *the Annual Convention of the Society for Personality and Social Psychology (SPSP'19)*.
- 2015 [P.4] **Murnane, E. L.**, Huffaker, D., Kossinets, G. (2015). Mobile health apps: adoption, adherence, and abandonment. In *Adjunct Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp'15)*. pp 261-264. ACM.

- [P.3] Costa, J., Rotabi, R., **Murnane, E. L.**, Choudhury, T. (2015). It Is Not Only About Grievances: Emotional Dynamics in Social Media During the Brazilian Protests. *In Ninth International AAAI Conference on Web and Social Media (ICWSM'15)*. pp 594-597.
- 2008 [P.2] Sinha, V., **Murnane, E. L.**, Kurth, S. W., Liongosari, E. S., Miller, R., Karger, D. (2008). Understanding code architectures via interactive exploration and layout of layered diagrams. *In Companion to the 25rd ACM SIGPLAN conference on Object-oriented programming systems languages and applications (OOPSLA'08)*. pp 745-746. ACM.
- [P.1] **Murnane, E. L.**, Sinha, V. (2008). Interactive exploration of compacted visualizations for understanding behavior in complex software. *In Companion to the 25rd ACM SIGPLAN conference on Object-oriented programming systems languages and applications (OOPSLA'08)*. pp 763-764. ACM.

Refereed Workshop Papers and Consortia

- 2017 [W.6] **Murnane, E. L.**, Abdullah, S., Matthews, M., Kay, M., Cosley, D., Choudhury, T., Gay, G., Kientz, J. A. (2017). Exploring the Design Space of Chronobiology-Aware Health Tools. *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI'17)*. ACM.
- 2016 [W.5] **Murnane, E. L.**, Matthews, M., Gay, G., Cosley, D. (2016). Playing with Your Data: Towards Personal Informatics Driven Games. *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing Adjunct (UbiComp'16)*. pp 565-569. ACM.
- [W.4] **Murnane, E. L.**, Matthews, M., Gay, G. (2016). Opportunities for Technology in the Self-Management of Mental Health. *Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct (MobileHCI'16)*. pp 1093-1096. ACM.
- 2015 [W.3] **Murnane, E. L.** (2015). Exploring a theory-guided path to the design of personal informatics and intervention technologies. *UbiComp Doctoral School. In Adjunct Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp'15)*. pp 447-452. ACM.
- [W.2] **Murnane, E. L.** (2015). Exploring a theory-guided path to the design of personal informatics and intervention technologies. *Boaster at the 2015 Human-Computer Interaction Consortium (HCIC'15)*.
- 2013 [W.1] **Murnane, E. L.**, Haslhofer, B., Lagoze, C. (2013). RESOLVE: leveraging user interest to improve entity disambiguation on short text. *Proceedings of the 22nd International Conference on World Wide Web (WWW'13) companion. IW3C2*. pp 1275-1284. ACM.
- 🌟 **Best Paper Award at Web of Linked Entities (WoLE'13)**

Organized Workshop Proposals

- 2018 [O.2] **Murnane, E. L.**, Snyder, J., Volda, S., Bietz, M. J., Matthews, M., Munson, S., Pina, L. R. (2018). Social Issues in Personal Informatics: Design, Data, and Infrastructure. *In Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW'18)*. pp 471-478. ACM.
- 2016 [O.1] Abdullah, S., Bardram, J. E., Choudhury, T., Mishra, V., **Murnane, E. L.**, Musolesi, M., Sano, A., Servia, S., Vilaza, G. (2016-2019). The 1st, 2nd, 3rd, and 4th Annual Workshop on Mental Health and Well-being: Sensing and Intervention (MHSI). *In Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing and Wearable Computers (UbiComp)*. ACM.

External Research Talks

Invited Seminars and Webinars

- 2016 Webinar Robert Wood Johnson Foundation Health Data Exploration Series. *Passive Sensing of Circadian Rhythms for Individualized Models of Cognitive Performance*. February 2016.
- 2014 Invited Talk Stanford HCI Seminar. *Designing an Online Civic Participation Platform: Socio-Computational Supports for Finding, Enlisting, and Motivating Contributors*. August 2014.
- 2014 Invited Talk Harvard Berkman Center. *Social-Computational Supports for Online Civic Engagement*. March 2014.
- 2013 Invited Talk University of Washington DUB Talk Series. *Noticing the Nuance: Designing intelligent systems that can understand semantic, psychological, and behavioral dimensions of our digital footprints*. August 2013.

Conference Presentations

- 2018 CSCW *Personal Informatics in Interpersonal Contexts: Towards the Design of Technology that Supports the Social Ecologies of Long-Term Mental Health Management*. Presented at CSCW. Nov 2018.
- 2018 CHI *Keppi: A Tangible User Interface for Self-Reporting Pain*. Presented at CHI. April 2018.
- 2018 CHI *Quantifying the Changeable Self: The role of self-tracking in coming to terms with and managing bipolar disorder*. Presented at CHI. April 2018.
- 2017 CHI *Supporting the Self-Management of Chronic Pain Conditions with Tailored Momentary Self-Assessments*. Presented at CHI. May 2017.
- 2017 CHI workshop *Exploring the Design Space of Chronobiology-Aware Health Tools*. Presented at the CHI Workshop on Interactive Systems in Healthcare (WISH). May 2017.
- 2016 UbiComp workshop *Playing with Your Data: Towards Personal Informatics Driven Games*. Presented at the UbiComp workshop on New Frontiers of Quantified Self. September 2016.
- 2016 MobileHCI *Mobile Manifestations of Alertness: Connecting Biological Rhythms with Patterns of Smartphone App Use*. Presented at MobileHCI. September 2016.
- 2016 MobileHCI workshop *Opportunities for Technology in the Self-Management of Mental Health*. Presented at the MobileHCI workshop on Mobile Healthcare for the Self-Management of Chronic Diseases. Sept 2016.
- 2015 UbiComp *Social (media) jet lag: How usage of social technology can modulate and reflect circadian rhythms*. Presented at UbiComp. September 2015.
- 2015 UbiComp doctoral school *Domain-Driven Personalization of Personal Informatics and Intervention Technologies*. Presented at the UbiComp Doctoral School. September 2015.
- 2014 CHI *Unraveling Abstinence and Relapse: Smoking Cessation Reflected in Social Media*. Presented at CHI. April 2014.
- 2014 CHI workshop *Circadian computing: Towards a body clock friendly smartphone*. Presented at the CHI workshop on Biological Rhythms and Technology. April 2014.
- 2013 WWW *RESOLVE: leveraging user interest to improve entity disambiguation on short text*. Presented at the WWW Web of Linked Entities (WoLE) workshop. May 2013.
- 2008 OOPSLA demo *Interactive Exploration of Compacted Visualizations for Understanding Behavior in Complex Software*. Presented at OOPSLA. October 2008.

Awards and Fellowships

- 2018 Best Paper Honorable Mention, ACM CSCW
- 2018 Recognition of Contribution to Diversity and Inclusion, ACM CSCW
- 2016 Best Paper Award, ACM MobileHCI
- 2016 Best of 2016 Notable Article, ACM Computing Reviews
- 2014 Cornell Information Science Outstanding Service Award
- 2013 Best Paper Award, ACM WWW Web of Linked Entities Workshop
- 2012 Microsoft Graduate Women's Scholarship
- 2011 National Science Foundation Graduate Research Fellowship
- 2010 MassChallenge Global Startup Competition Finalist
- 2007 MIT \$100K Entrepreneurship Competition Semifinalist
- 2007 MIT Lufthansa Excellence in German Award
- 2006 MIT Antichess AI Tournament Winner
- 03-07 Paul E. and Priscilla Gray MIT Scholarship for Academic Excellence and Extracurriculars
- 2003 National Merit Scholar Finalist
- 2003 AP Scholar with Honor
- 2003 Valedictorian, West Haven High School

Grants and Proposal Writing

Stanford University (as a postdoc)

- 2019 [G.8] The Brown Institute for Media Innovation, Magic Grant.
Voice-Based Interfaces for Storytelling and Programming in Early Elementary Years.
Role: Co-lead author of proposal. PI: James Landay. \$70,000. 09/19-09/20.
- 2019 [G.7] National Science Foundation, CNS Core Large [CNS-1900638].
Autonomy and Privacy with Open Federated Virtual Assistants.
Role: Contributed to writing of proposal. PI: Monica Lam. \$627,077. 04/01/19 - 03/31/23.
- 2018 [G.6] National Institutes of Health through the Translational Research Institute on Pain in Later Life.
Developing Technology for Measuring, Modeling, and Predicting Individualized Pain Patterns in Everyday Life.
PI: Elizabeth Murnane. \$31,300. 6/1/18 - 5/31/19.
- 2018 [G.5] SAIL-Toyota Center for AI Research.
An Engagement Learning Approach to Generating Massive Labeled Datasets for Training AI Systems.
Role: Lead author of proposal. PIs: Michael Bernstein, James Landay. \$900,000. 9/1/18 - 8/31/20.
- 2018 [G.4] Stanford Catalyst for Collaborative Solutions to Future Grand Challenges.
Hybrid Physical+Digital Spaces for Enhanced Sustainability and Wellbeing.
Role: Lead author of proposal. PIs: Sarah Billington, James Landay. \$920,000. 07/01/18 - 06/30/20.
- 2018 [G.3] Stanford Catalyst for Collaborative Solutions to Future Grand Challenges.
Motivating Mobility and Health on a Global Scale.
Role: Key contributor to proposal. PI: Scott Delp. \$2,222,223. 07/01/18 - 06/30/21.

Cornell University (as a graduate student)

- 2015 [G.2] Robert Wood Johnson Foundation.
Passive Sensing of Circadian Rhythms for Individualized Models of Cognitive Performance.
Role: Co-lead author of proposal. PI: Julie Kientz. \$36,772. 03/15 - 08/15.
- 2013 [G.1] National Science Foundation, HCC Large [IIS-1314778].
Social-Computational Support of Civic Engagement in Public Policy Making.
Role: Contributed to writing of proposal. PI: Claire Cardie. \$2,279,876. 09/15/13 - 08/31/17.

Scholarly Service

Conference Organizing Committees

- 2016 Student Volunteer Co-Chair, ACM CSCW
- 2015 Webmaster & Graphic Design Co-Chair, ACM CSCW

Technical Program Committees

- 2020 Associate Chair, Papers — Health Subcommittee, ACM CHI
- 2018 Late Breaking Work, ACM CHI
- 2016 “New Frontiers of Quantified Self 2” workshop, ACM UbiComp
- 2016 “Mental Health & Well-Being” workshop, ACM UbiComp

Workshop Organizing

- 2018 “Social Issues in Personal Informatics: Design, Data, and Infrastructure” workshop at ACM CSCW
- 2017-19 “Mental Health and Well-being: Sensing and Intervention” workshop at ACM UbiComp
- 2014 “Biological Rhythms and Technology” workshop at ACM CHI

Student Volunteering

- 2012-14, 16-17 ACM CHI
- 2014-16 ACM CSCW
- 2014, 16 ACM UbiComp
- 2015 ACM UbiComp PC Meeting

Grant Reviewing

- 2018 National Science Foundation Panelist

Conference Reviewing

- 2015-19 ACM Human Factors in Computing Systems (CHI) **Excellent Reviewer Recognition 2017-19**
- 2015 ACM Computer-Human Interaction in Play (CHI Play)
- 2015-16, 18 ACM Computer-Supported Cooperative Work and Social Computing (CSCW)
- 2020 ACM Supporting Group Work (GROUP)
- 2017, 19 ACM Hawaii International Conference on System Sciences (HICSS)
- 2016-17 ACM Human-Computer Interaction with Mobile Devices and Services (MobileHCI)
- 2013 ACM Recommender Systems (RecSys)
- 2015-18 ACM Interactive, Mobile, and Wearable Ubiquitous Technologies (IMWUT/UbiComp)
- 2019 ACM User Interface Software and Technology (UIST)
- 2019 IEEE Affective Computing & Intelligent Interaction (ACII)

Journal Reviewing

- 2017 British Medical Journal
- 2019 The Journal of Collaborative Computing and Work Practices
- 2017 Current Psychology
- 2017 IBM Journal of Research & Development
- 2018 IEEE Pervasive
- 2018 International Journal of Human-Computer Studies
- 2017-19 Journal of Medical Internet Research

Editorships

- 2019-present Editorial Board, Journal of Medical Internet Research
- 2018 Special Issue on Computing and Mental Health, Journal of Medical Internet Research

Departmental and University Service

- 2017-18 Stanford HCI Lunch Co-Organizer
- 2013-15 Cornell Information Science Graduate Student Association President
- 2012-15 Cornell Information Science Graduate Student Seminar Series Co-Coordinator
- 2012, 14 Expanding Your Horizons volunteer & “DIY: Designing Social Networks” workshop organizer
- 2011-14 Cornell Graduate Student Assembly Field Representative & Elected Voting Member
- 2011-13 Cornell Graduate Student Advocacy and Programming Committees

Professional Development and Mentoring Activities

- 2015, 18 Human Computer Interaction Consortium (HCIC)
- 2017 Rising Stars in EECS
- 2013, 14 Grace Hopper Celebration of Women in Computing
- 2013 CRA-W Graduate Cohort Workshop
- 2012 Computer Human Interaction Mentoring (CHIMe) Workshop
- 2012 Google GRAD Computer Science Forum