
Awards and Honors and Year Received

- 2019 NCWIT Undergraduate Research Mentoring Award
- 2015 & 2010 Scottish Informatics & Computer Science Alliance (SICSA) Distinguished Visiting Fellowship
- 2012 Borg Early Career Award
- 2 Best Paper Awards (Pervasive Health 2017; IHI 2010) & 5 Best Paper Nominations (Pervasive Health 2009, 2011, 2015; CHI Honorable Mention 2015 & 2017)
- 2009 NSF Faculty Early Career Development (CAREER) Award

Involvement in CRA Activities

- I am currently a Computing Community Consortium (CCC) Council member (since July 2019) where I led the quadrennial paper on Modernizing Data Control.
- Prior to joining the CCC Council, I co-chaired the CCC funded workshop on Sociotechnical Interventions for Health Disparity Reduction: A Research Agenda in 2018.
- I have attended CCC workshops related to health and technology since 2009.
- I spoke at Grace Hopper about graduate school experiences for CRA-W (now CRA-WP) in 2016 and presented at the grad cohort in 2013.
- I also have advised undergraduate researchers as part of CRA-W CREU (2007-2008; 2011-2012) and DREU (2012).

Other Relevant Experience

I am active in serving my research community and organizing events. For example:

- Subcommittee Co-Chair for CHI 2018 (Health, Accessibility, and Aging), 2019 (Health), and 2020 (Health).
- Co-Chair of CCC funded Sociotechnical Interventions for Health Disparity Reduction: A Research Agenda Workshop on April 9-10, 2018
- Co-Chair for the Consumer Health Informatics in the Midwest meeting in 2014 (February 22, 2014 and October 25, 2014) and February 10, 2018. Coordinated co-organizers and led meeting organization for 20-30 researchers from 14 midwestern universities to build collaborations and ultimately pursue more ambitious and multidisciplinary initiatives than we could individually.
- Co-Chair for Workshop on Interactive Systems in Healthcare (WISH) - November 3-4, 2012 as part of the American Medical Informatics Association (AMIA) Annual

2021 BOARD NOMINEE

Katie Siek

Professor and Chair, Informatics
Indiana University



Symposium and May 7, 2016 as part of the ACM SIG CHI conference. Steering Committee member since 2011.

- Vice Chair for the 2013 American Medical Informatics Association Annual Symposium - this position is equivalent to an ACM SIG Papers Chairs position.

Research Interests

Human computer interaction, pervasive computing, health and wellness informatics

Personal Statement

Katie Siek is a professor and chair of Informatics at Indiana University Bloomington. She collaboratively led efforts to integrate health research into human computer interaction. As evidenced by being co-chair for the Workshop on Interactive Systems in Healthcare (WISH) (2012 and 2016; steering committee since 2011); ACM SIG CHI conference Health subcommittee co-chair 2018-2020; and Vice Chair for the 2013 American Medical Informatics Association (AMIA) Annual Symposium (equivalent to an ACM SIG Papers Chair). She is a CCC Council member who co-organized a CCC workshop on technology in health disparities and led the modernizing data control quadrennial paper.

Katie A. Siek

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Research Interests

Health & wellness informatics, human centered computing, and pervasive computing.

Brief Biography

Katie Siek is a professor and chair of Informatics at Indiana University Bloomington. Her primary research interests are in human computer interaction, health informatics, and ubiquitous computing. More specifically, she is interested in how sociotechnical interventions affect personal health and well being. Her research is supported by the National Institutes of Health, the Robert Wood Johnson Foundation, and the National Science Foundation including a five-year NSF CAREER award. She has been awarded an NCWIT Undergraduate Research Mentoring Award (2019), a CRA-W Borg Early Career Award (2012), and Scottish Informatics and Computer Science Alliance Distinguished Visiting Fellowships (2010 & 2015). Prior to returning to her alma mater, she was a professor for 7 years at the University of Colorado Boulder. She earned her PhD and MS at Indiana University Bloomington in computer science and her BS in computer science at Eckerd College. She was a National Physical Science Consortium Fellow at Indiana University and a Ford Apprentice Scholar at Eckerd College.

Education

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| Indiana University Ph.D. in Computer Science (Minor: Scientific Computing) | 2004-2006 |
| Indiana University M.S. in Computer Science | 2002-2004 |
| Eckerd College B.S. in Computer Science Minors in German and Mathematics | 1996-2000 |

Professional Research Experience

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|------------------------|---|
| <i>7/2020-Present</i> | Indiana University , Bloomington, IN <i>Full Professor</i> <i>Department Chair</i> |
| <i>8/2013 - 7/2020</i> | Indiana University , Bloomington, IN <i>Associate Professor</i> |

1/2015 - 1/2017 **Depauw University**, Greencastle, IN
Associate Professor of University Studies

8/2006 - 2015 **University of Colorado**, Boulder, CO
Assistant Professor Adjunct (8/2013-2015)
Assistant Professor (8/2006-7/2013)
Professional Research Associate (8/2006)
Affiliations: Alliance for Technology, Learning & Society (ATLAS)

2003-2006 **Indiana University**, Bloomington, IN
Research Assistant

Fall 2005 **Indiana University School of Nursing**, Indianapolis, IN
Developer

Summer
2000, 2001, 2002 **Sandia National Laboratories**, Livermore, CA
Intern

Honors

2019 **NCWIT Undergraduate Research Mentoring Award**
This award recognizes Academic Alliance representatives at non-profit, U.S. institutions (excluding U.S. territories) for their outstanding mentorship, high-quality research opportunities, recruitment of women and minority students, and efforts to encourage and advance undergraduates in computing-related fields.

2019 **Sachem Hall of Honor**
This award recognizes alumni who have achieved extraordinary success in their chosen field.

2018 **CEWiT Outstanding Faculty Mentor-Advocate Award**
This award is given annually by CEWiT to a faculty member who provides advice, encouragement, feedback, and coaching to advance students.

2012 **Borg Early Career Award**
This award is given annually by CRA-W to a woman in computing at an early stage in her career who has made significant research contributions while also having a positive and significant impact on advancing women in the computing research community.

2010 & 2015 **Distinguished Visiting Fellowship**
Scottish Informatics & Computer Science Alliance (SICSA) June 1 - July 31, 2010 & August 1-30, 2015

2009-2014 **NSF Faculty Early Career Development (CAREER) Award**
HEALTH BRIDGE: Motivating Personal Health Record Adoption by Low-Income Communities

2006 **Engineering New Professor Award**
College of Engineering & Applied Science at the University of Colorado at Boulder

2000-2006 National Physical Science Consortium Fellow
Fellowship funds students during pursuit of a graduate degree

2006 WIC@IU 2006 Woman of the Year

2002 Outstanding Teaching Assistant Award at The University of Notre Dame

2001 Top 5 Finalist at the ACM International Graduate Research Competition

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| 1998-2000 | Ford Foundation Scholar - Eckerd College received a grant from the Ford Foundation to select 20 Juniors each year to participate in a two year program. Students work with professors to foster skills and habits of professional scholars. |
| 1999 | Eckerd College Scholar Athlete of the Year Recipient must actively participate in varsity athletics and demonstrate academic success and leadership skills. |
| 1999 | Sunshine State Conference Scholar Athlete of the Year Recipient must be recommended by college and participate in varsity athletics. |

Writings and Publications¹

Refereed Journal Articles

1. Kay Connelly, Haley Molchan, Rashmi Bidanta*, Sudhanshu Siddh1, Byron Lowens, Kelly Caine, George Demiris, Katie Siek, and Blaine Reeder. Evaluation framework for selecting wearable activity monitors for research. *mHealth*, Accepted for Publication 2020.
2. Zackary Dunivin*, Lindsay Zadunayski#, Ujjwai Baskota#, Katie Siek, and Jennifer Mankoff. Gender, soft skills, and patient experience in online physician reviews: A large-scale text analysis. *Journal of Medical Internet Research*, May 2020. Impact Factor: 4.945.
3. Tiffany C. Veinot, Jessica S. Ancker, Heather Cole-Lewis, Elizabeth D. Mynatt, Andrea G. Parker, Katie A. Siek, and Lena Mamykina. Leveling Up: On the Potential of Upstream Health Informatics Interventions to Enhance Health Equity. *Medical Care*, 57:S108–S114, Jun 2019. Impact Factor: 3.338.
4. Katie A. Siek. Expanding human computer interaction methods to understand user needs in the design process of personal health systems. *IMIA Yearbook of Medical Informatics 2018*, 27(1):74–78, 2018. Impact Factor: 1.58.
5. Haley MacLeod*, Ben Jelen*, Annu Prabhakar*, Lora Oehlberg, Katie Siek, and Kay Connelly. A guide to using asynchronous remote communities (ARC) for researching distributed populations. *EAI Endorsed Transactions on Pervasive Health and Technology*, 3(11):1–19, 7 2017.
6. Lucia Guerra-Reyes, Vanessa M. Christie*, Annu Prabhakar*, and Katie A. Siek. Mind the gap: Assessing the disconnect between postpartum health information desired and health information received. *Women's Health Issues*, 27(2):167–173, March-April 2017. Impact Factor: 1.811.
7. Lucia Guerra-Reyes, Annu Prabhakar*, Asia Harris*, Vanessa Christie*, and Katie A. Siek. Postpartum health information seeking using mobile phones: Experiences of low-income mothers. *Maternal and Child Health Journal*, 20:13–21, November 2016. Impact Factor: 1.917.
8. Kim M. Unertl, Chris L. Schaeffbauer*, Terrance R. Campbell, Charles Senteio*, Katie A. Siek, Suzanne Bakken, and Tiffany C. Veinot. Integrating community-based participatory research and informatics approaches to improve the engagement and health of underserved populations. *Journal of the American Medical Informatics Association*, 23(1):60–73, 2016. Impact Factor: 3.932.

¹* denotes graduate student collaborators

denotes undergraduate student collaborators

9. Janet L. Welch, Kim Schafer Astroth, Susan M. Perkins, Cynthia S. Johnson, Kay Connelly, Katie A. Siek, Josette Jones, and Linda LaRue Scott. Using a mobile application to self-monitor diet and fluid intake among adults receiving hemodialysis. *Research in Nursing & Health*, 36:284–298, March 2013. Impact Factor: 2.109.
10. Kay Connelly, Katie A. Siek, Beenish Chaudry*, Josette Jones, Kim Astroth, and Janet L. Welch. An offline mobile nutrition monitoring intervention for varying literacy patients receiving hemodialysis: A pilot study examining usage and usability. In *Journal of the American Medical Informatics Association*, volume 19, pages 705–12, 2012 Sep-Oct; epub 2012 May 12. Impact Factor: 3.078.
11. Beenish M. Chaudry*, Kay H. Connelly, Katie A. Siek, and Janet L. Welch. Formative evaluation of a mobile liquid portion size estimation interface for people with varying literacy skills. *Journal of Ambient Intelligence and Humanized Computing*, 4:779–789, 2013. Impact Factor: 4.594.
12. Katie A. Siek, Danish U. Khan*, Stephen E. Ross, Leah Haverhals, Jane Meyers*, and Steven Cali. Designing a personal health application for older adults to manage medications: A comprehensive case study. *Journal of Medical Systems*, 35(5):1099–1121, 2011. DOI: <http://dx.doi.org/10.1007/s10916-011-9719-9>; Impact Factor: 0.654.
13. Danish U. Khan*, Swaminathan Ananthanarayan*, and Katie A. Siek. Exploring everyday health routines of a low socioeconomic population through multimedia elicitations. *Journal of Participatory Medicine*, 3(e39):10 pages, August 2011.
14. Annie Y.S. Lau, Katie A. Siek, Luis Fernandez-Luque, Huibert Tange, Prajesh Chhanabhai, Simon Y.W. Li, Peter Elkin, Ahmed Arjabi, Les Walczowski, Chee Siang Ang, and Gunther Eysenbach. Role of social media for patients and consumer health. *IMIA Yearbook 2011*, 6(1):131–138, 2011.
15. Leah M. Haverhals, Courtney A. Lee, Katie A. Siek, Carol A. Darr, Sunny A. Linnebur, J. Mark Ruscin, and Stephen E. Ross. Older adults with multimorbidity: Medication management processes and design implications for personal health applications. *Journal of Medical Internet Research*, 13(2):e44 (11 pages), 2011. DOI: <http://dx.doi.org/10.2196/jmir.1813>; Impact Factor: 4.7.
16. Stephen E. Ross, Kevin B. Johnson, Katie A. Siek, Jeffrey S. Gordon, Danish U. Khan*, and Leah M. Haverhals. Two complementary personal medication management applications on a common platform: Case report. *Journal of Medical Internet Research*, 13(3):e45 (13 pages), 2011. DOI: <http://dx.doi.org/10.2196/jmir.1815>; Impact Factor: 4.7.
17. Katie A. Siek and Julie Maitland. Studying the place of technology to lower financial barriers for dietary change. *Methods of Information in Medicine*, 49(1):74–80, (online) December 2009; (print) 2010. DOI: <http://dx.doi.org/10.3414/ME09-02-0004>; Impact Factor: 1.690.
18. Katie A. Siek, Stephen E. Ross, Danish U. Khan*, Leah M. Haverhals, Steven R. Cali, and Jane Meyers*. Colorado care tablet: The design of an interoperable personal health application to help older adults with multimorbidity manage their medications. *Journal of Biomedical Informatics*, 43(5), Supplement 1:S22–S26, Accepted for Publication: 9 May 2010; October 2010. DOI: <http://dx.doi.org/10.1016/j.jbi.2010.05.007>; Impact Factor: 2.432.

19. Janet L. Welch, Katie A. Siek, Kay H. Connelly, Kim S. Astroth, M. Sue McManus, Linda Scott, Seongkum Heo, and Michael A. Kraus. Merging health literacy with computer technology: Self-managing diet and fluid intake among adult hemodialysis patients. *Patient Education and Counseling*, 79(2):192–198, (online) September 2009; (print) May 2010. DOI: <http://dx.doi.org/10.1016/j.pec.2009.08.016>; Impact Factor: 1.975.
20. Katie A. Siek, Kay Connelly, Suzanne Menzel, and Laura Hopkins. Propagating diversity through active dissemination. *Computer*, 40(2):89–92, 2007. DOI: <http://dx.doi.org/10.1109/MC.2007.71>.
21. Kay H. Connelly, Anne M. Faber, Yvonne Rogers, Katie A. Siek, and Tammy Toscos. Mobile applications that empower people to monitor their personal health. *E & I Elektrotechnik und Informationstechnik*, 123(4):124–128, April 2006. DOI: <http://dx.doi.org/10.1007/s00502-006-0326>.

Book Chapters

1. Albert M. Lai and Katie A. Siek. Designing and deploying mobile health interventions. In Vimla L. Patel, Thomas G. Kannampallil, and David Kaufman, editors, *Cognitive Informatics in Health and Biomedicine: Human Computer Interaction in Healthcare*. Springer, 2015. ISBN: 978-3-319-17272-9.
2. Katie A. Siek, Gillian R. Hayes, Mark W. Newman, and John C. Tang. Field deployments: Knowing from using in context. In Wendy A. Kellogg and Judith S. Olson, editors, *Ways of Knowing in HCI*, pages 119–142. 2014.
3. Katie A. Siek and Kay Connelly. Achieving success in research collaborations in health informatics. In William Aspray and Barbara Hayes, editors, *Health Informatics: A Patient-Centered Approach to Diabetes*, pages 603–641. MIT Press, 29 October 2010. ISBN: 0262014327.
4. Katie A. Siek, Kay H. Connelly, Beenish Chaudry*, Desiree Lambert, and Janet L. Welch. Evaluation of two mobile nutrition tracking applications for chronically ill populations with low literacy skills. In J. Tan and P. Olla, editors, *Mobile Health Solutions for Biomedical Applications*, pages 1–23. IGI Global, 2009. ISBN: 1605663328.
5. Katie A. Siek. Mobile design for older adults. In Joanna Lumsden, editor, *Handbook of Research on User Interface Design and Evaluation for Mobile Technology*, pages 624–634. IGI, February 2008. ISBN: 159904871X.

Refereed Conference Publications

1. Amanda Lazar, Alisha Pradhan*, Ben Jelen*, Katie A. Siek, and Alex Leitch. Studying the formation of an older adult-led makerspace. In *Proceedings of CHI 2021*, 2021. Acceptance Rate: 26.3%.
2. K. Cassie Kresnye*, Mona Y. Alqassim*, Briana Hollins#, Lucia Guerra-Reyes, Maria K. Wolters, and Katie A. Siek. What to expect when you are no longer expecting: Information needs of women who experienced a miscarriage. In *Proceedings of the Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2020)*, Pervasive Health 2020, 2020. Acceptance Rate: 48%.

3. Ben Jelen*, Olivia K. Richards#, Samantha A. Whitman#, Tom Ongwere*, K. Cassie Kresnye*, and Katie A. Siek. Exploring the use of electronics to customize pervasive health technologies with older adult crafters. In *Proceedings of the Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2020)*, Pervasive Health 2020, 2020. Acceptance Rate: 48%.
4. Alisha Pradhan*, Ben Jelen*, Katie A. Siek, Joel Chan, and Amanda Lazar. Understanding older adults' participation in design workshops. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*, CHI '20, page 1–15, New York, NY, USA, 2020. Association for Computing Machinery. Acceptance Rate: 24%.
5. Suzanne Menzel, Katie A. Siek, and David Crandall. Hello research! developing an intensive research experience for undergraduate women. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education, SIGCSE '19*, pages 997–1003, New York, NY, USA, 2019. ACM. Acceptance Rate: 32%.
6. Ben Jelen*, Julia Dunbar#, Susan Monsey#, Olivia K. Richards#, and Katie A. Siek. Utilizing the affinity research group model in a summer research experience for undergraduates program. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education, SIGCSE '19*, pages 990–996, New York, NY, USA, 2019. ACM. Acceptance Rate: 32%.
7. Ben Jelen*, Anne Freeman#, Mina Narayanan#, Kate M. Sanders#, James Clawson, and Katie Siek. Craftec: Engaging older adults in making through a craft-based toolkit system. In ACM, editor, *Proceedings of the Thirteenth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '19)*, pages 331–340, New York, NY, USA, 2019. ACM. Acceptance Rate: 34%.
8. Juan F. Maestre*, Haley MacLeod*, Ciabhan L. Connelly#, Julia C. Dunbar#, Jordan Beck*, Katie A. Siek, and Patrick C. Shih. Defining through expansion: Conducting asynchronous remote communities (ARC) research with stigmatized groups. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, CHI '18, pages 557:1–557:13, New York, NY, USA, 2018. ACM. Acceptance Rate: 25.7%.
9. Sriraam Natarajan, Annu Prabhakar*, Nandini Ramanan*, Anna Baglione*, Kay Connelly, and Katie Siek. Boosting for postpartum depression prediction. In *Proceedings of the Second IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies*, CHASE '17, pages 232–240, Piscataway, NJ, USA, 2017. IEEE Press.
10. Annu Sible Prabhakar*, Lucia Guerra-Reyes, Anne Efron#, Vanessa M. Kleinschmidt*, Maggie Driscoll#, Charles Peters#, Vanessa Pereira#, Majdah Alshehri*, Tom Ongwere*, and Katie A. Siek. "let me know if you need anything": Support realities of new mothers. In *Proceedings of the 11th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth '17, pages 31–40, New York, NY, USA, 2017. ACM. Acceptance Rate: 25%; **Best Paper Award**.
11. Haley MacLeod*, Grace Bastin#, Leslie S. Liu, Katie Siek, and Kay Connelly. "Be Grateful You Don't Have a Real Disease": Understanding Rare Disease Relationships. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems*, CHI '17, pages 1660–1673, New York, NY, USA, 2017. ACM. Acceptance Rate: 25%.

12. Annu Sible Prabhakar*, Lucia Guerra-Reyes, Vanessa M. Kleinschmidt*, Ben Jelen*, Haley MacLeod*, Kay Connelly, and Katie A. Siek. Investigating the suitability of the asynchronous, remote, community-based method for pregnant and new mothers. In *SIGCHI Conference on Human-factors in Computing Systems 2017 (CHI 2017)*, pages 4924–4934, 2017. Acceptance Rate: 25%; **CHI Honorable Mention which represents the top 5% of CHI Papers.**
13. Swamy Ananthanarayan*, Katie Siek, and Michael Eisenberg. A craft approach to health awareness in children. In *Proceedings of the 2016 ACM Conference on Designing Interactive Systems*, DIS '16, pages 724–735, New York, NY, USA, 2016. ACM. Acceptance Rate: 26%.
14. Haley MacLeod*, Ben Jelen*, Annu Prabhakar*, Lora Oehlberg, Katie Siek, and Kay Connelly. Asynchronous remote communities (ARC) for researching distributed populations. In *Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth '16, pages 1–8, ICST, Brussels, Belgium, Belgium, 2016. ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering). Acceptance Rate: 35%.
15. Beenish M. Chaudhry, Christopher Schaeffbauer*, Ben Jelen*, Katie A. Siek, and Kay Connelly. Evaluation of a food portion size estimation interface for a varying literacy population. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems*, CHI '16, pages 5645–5657, New York, NY, USA, 2016. ACM. Acceptance Rate: 23%.
16. Michael Eisenberg, Swamy Ananthanarayan*, and Katie Siek. A strategy for teaching” real” computer science through wearables. In *Proceedings of the International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS)*, pages 37–43. The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp), 2015.
17. Kim Oakes*, Katie A. Siek, and Haley MacLeod*. Musclememory: Identifying the scope of wearable technology in high intensity exercise communities. In *Proceedings of the 9th International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth '15, pages 193–200, ICST, Brussels, Belgium, Belgium, 2015. ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering). Acceptance Rate: 16%; **Nominated for Best Paper which represents the top 1.6% of Pervasive Health Papers.**
18. Haley MacLeod*, Kim Oakes*, Danika Geisler#, Kay Connelly, and Katie A. Siek. Rare world: Towards technology for people with rare diseases. In *Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems*, CHI '15, pages 1145–1154, New York, NY, USA, 2015. ACM. Acceptance Rate: 25%; **CHI Honorable Mention which represents the top 5% of CHI Papers.**
19. Chris Schaeffbauer*, Danish Kahn*, Amy Le#, Garrett Sczechowski#, and Katie Siek. Snack buddy: Supporting healthy snacking in low socioeconomic status families. In *Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work & Social Computing*, CSCW '15, pages 1045–1057, New York, NY, USA, 2015. ACM. Acceptance Rate: 28%.
20. Swamy Ananthanarayan*, Nathan Lapinski#, Katie Siek, and Michael Eisenberg. Towards the crafting of personal health technologies. In *Proceedings of the 2014 Conference on Designing Interactive Systems*, DIS '14, pages 587–596, New York, NY, USA, 2014. ACM. Acceptance Rate: 27%.

21. Swamy Ananthanarayan*, Miranda Sheh#, Alice Chien#, Halley Profita*, and Katie A. Siek. Designing wearable interfaces for knee rehabilitation. In *In 8th International Conference on Pervasive Computing Technologies for Healthcare*, pages 101–108, 2014. Acceptance Rate: 27%.
22. Danish U. Khan*, Swamy Ananthanarayan*, An Le#, Christopher Schaeffbauer*, and Katie A. Siek. Designing mobile snack application for low socioeconomic status families. In *6th International Conference on Pervasive Computing Technologies for Healthcare*, pages 57–64, 2012. Acceptance Rate: 33.96%.
23. Beenish M. Chaudry*, Kay H. Connelly, Katie A. Siek, and Janet L. Welch. Mobile interface design for low-literacy populations. In *Proceedings of the 2nd ACM SIGHIT International Health Informatics Symposium, IHI '12*, pages 91–100, New York, NY, USA, 2012. ACM. Oral Presentation Acceptance: 18%.
24. Beenish Chaudry*, Kay Connelly, Katie A. Siek, and Janet L. Welch. The design of a mobile portion size estimation interface for a low literacy population. In *5th International Conference on Pervasive Computing Technologies for Healthcare*, pages 160–167, 2011. Acceptance Rate: 36%; **Nominated for Best Paper** - 7.3% of submitted papers nominated.
25. Christopher L. Schaeffbauer# and Katie A. Siek. Cautious, but optimistic: Primary care provider documentation workflows with electronic medical records. In *5th International Conference on Pervasive Computing Technologies for Healthcare*, pages 63–70, 2011. Acceptance Rate: 36%.
26. Danish U. Khan*, Katie A. Siek, Stephen E. Ross, Leah Haverhals, Steven Cali, and Jane Meyers*. Designing a personal health application for older adults to manage medications. In *Proceedings of the 1st ACM International Health Informatics Symposium, IHI '10*, pages 849–858, New York, NY, USA, 2010. ACM. Paper Acceptance Rate: 48%; Oral Presentation Acceptance: 17%; **Awarded Best Regular Paper**.
27. Katie A. Siek, Jeffrey S. LaMarche*, and Julie Maitland*. Bridging the information gap: Collaborative technology design with low-income at-risk families to engender healthy behaviors. In *OZCHI '09: Proceedings of the 21st Australian Conference on Computer-Human Interaction*, pages 89–96, New York, NY, USA, 2009. ACM. DOI: <http://doi.acm.org/10.1145/1738826.1738841>; Acceptance Rate: 53%.
28. Julie Maitland*, Katie A. Siek, and Matthew Chalmers. Persuasion not required improving our understanding of the sociotechnical context of dietary behavioural change. In *Pervasive Healthcare 2009: Proceedings of the 3rd International ICST Conference on Pervasive Computing Technologies for Healthcare 2009*, pages 1–8. IEEE, April 2009. Acceptance Rate: 36%; **Nominated for Best Paper** - 4.95% submitted papers nominated.
29. Katie A. Siek. The knot or the noose? analysis of privacy on a wedding planning website. In *Proceedings of Grace Hopper Celebration of Women in Computing 2009*, page 6 pages, New York, NY, USA, 2009. ACM. Acceptance Rate for New Investigator: 45%; Conference Acceptance Rate: 34%.
30. Katherine Peterson# and Katie A. Siek. Analysis of information disclosure on a social networking site. In *Online Communities and Social Computing*, pages 256–264. Springer Berlin/Heidelberg, 2009. DOI: http://dx.doi.org/10.1007/978-3-642-02774-1_28; Acceptance Rate: 32%.

31. Gloria Childress Townsend, Suzanne Menzel, and Katie A. Siek. Leveling the CS1 playing field. In *SIGCSE '07: Proceedings of the 38th SIGCSE technical symposium on Computer science education*, pages 331–335, New York, NY, USA, 2007. ACM. DOI: <http://doi.acm.org/10.1145/1227310.1227428>; Acceptance Rate: 34%.
32. Katie A. Siek, Kay H. Connelly, Yvonne Rogers, Paul Rohwer*, Desiree Lambert, and Janet L. Welch. When do we eat? an evaluation of food items input into an electronic food monitoring application. In *Pervasive Healthcare 2006: Proceedings of the 1st International ICST Conference on Pervasive Computing Technologies for Healthcare 2006*, pages 1–10, 2006. DOI: <http://dx.doi.org/10.1109/PCTHEALTH.2006.361684>; Acceptance Rate: 51%.
33. Katie A. Siek, Yvonne Rogers, and Kay H. Connelly. Fat finger worries: How older and younger users physically interact with PDAs. In *Human-Computer Interaction - INTERACT 2005*, pages 267–280, 2005. DOI: http://dx.doi.org/DOI:10.1007/11555261_24; Acceptance Rate: 26.5%.
34. Katie A. Siek, Amanda Stephano, Diane Cessna, Kay Connelly, and Beth Plale. Work in progress: *Just Be* an interactive experience for K-12 students. In *Frontiers in Education, 2005. FIE '05. Proceedings 35th Annual Conference*, pages F3H–15–F3H–16, 2005. DOI: <http://dx.doi.org/10.1109/FIE.2005.1612119>.
35. Raja Sooriamurthi, Arijit Sengupta, Suzanne Menzel, Katie A. Moor (Siek), Sidd Stamm, and Katy Borner. Java engagement for teacher training: an experience report. In *Frontiers in Education, 2004. FIE '04. 34th Annual*, pages t2D/17–t2D/22 Vol. 1, 2004. DOI: <http://dx.doi.org/10.1109/FIE.2004.1408496>.
36. Helen Chen, Pete Wyckoff, and Katie Moor (Siek). Cost/performance evaluation of gigabit ethernet and myrinet as cluster interconnect. In *OPNETWORK 2000*, page 6 pages, 2000. **Distinguished Paper Award**.

Refereed Short Conference Publications

1. Swamy Ananthanarayan*, Miranda Sheh#, Alice Chien#, Halley Profita*, and Katie Siek. PT viz: Towards a wearable device for visualizing knee rehabilitation exercises. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, CHI '13*, pages 1247–1250, New York, NY, USA, 2013. ACM. Acceptance Rate: 12.3%.
2. Danish U. Khan*, Katie A. Siek, and Swamy Ananthanarayan*. Towards designing health management interfaces for low socioeconomic families. In *6th International Conference on Pervasive Computing Technologies for Healthcare*, pages 167–170, 2012.
3. Swaminathan Ananthanarayan* and Katie A. Siek. Health sense: A gedanken experiment on persuasive wearable technology for health awareness. In *Proceedings of the 1st ACM International Health Informatics Symposium, IHI '10*, pages 400–404, New York, NY, USA, 2010. ACM. Acceptance Rate: 44%.
4. Rodney D Nielsen, Richard Voyles, Daniel Bolanos, Mohammad Mahoor, Wilson Pace, Katie Siek, and Wayne Ward. A platform for human-robot dialog systems research. In *Association for the Advancement of Artificial Intelligence (AAAI) Fall Symposium: Dialog with Robots*, page 2 pages, 2010.

5. Julie Maitland* and Katie A. Siek. Technological approaches to promoting physical activity. In *OZCHI '09: Proceedings of the 21st Annual Conference of the Australian Computer-Human Interaction Special Interest Group*, pages 277–280, New York, NY, USA, 2009. ACM. DOI: <http://doi.acm.org/10.1145/1738826.1738873>; Acceptance Rate: 53%.
6. Katie A. Siek, Kay H. Connelly, and Yvonne Rogers. Pride and prejudice: learning how chronically ill people think about food. In *CHI '06: Proceedings of the SIGCHI conference on Human Factors in computing systems*, pages 947–950, New York, NY, USA, 2006. ACM. DOI: <http://doi.acm.org/10.1145/1124772.1124912>; Acceptance Rate: 19.6%.

Juried and Curated Conference Publications

1. Colleen M. Lewis, Olga Glebova, Amir Kamil, Clif Kussmaul, Briana B. Morrison, and Katie A. Siek. Showcase of new academic alliance members: Promising practices regarding admission, curriculum, pedagogy, ta selection, and undergraduate research. In *Proceedings of SIGCSE*, 2021.
2. Juan F. Maestre*, K. Cassie Kresnye*, Julia C. Dunbar*, Ciabhan L. Connelly#, Katie A. Siek, and Patrick C. Shih. Conducting HCI research with people living with HIV remotely: Lessons learned and best practices. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems*, CHI EA '20, page 1–8, New York, NY, USA, 2020. Association for Computing Machinery.
3. Ben Jelen*, Susan Monsey#, and Katie A. Siek. Older adults as makers of custom electronics: Iterating on craftec. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems*, CHI EA '19, pages LBW0227:1–LBW0227:6, New York, NY, USA, 2019. ACM.
4. Mona Alqassim*, K. Cassie Kresnye*, Katie A. Siek, and Maria Wolters. Facebook for support versus facebook for research: The case of miscarriage. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems*, CHI EA '19, pages LBW0216:1–LBW0216:6, New York, NY, USA, 2019. ACM.
5. Ashley Marie Walker*, Michael A. DeVito*, Juan Fernando Maestre*, Katie A. Siek, Cassie Kresnye*, Ben Jelen*, Patrick C. Shih, Maria Wolters, and Mona Alqassim*. Arc: Moving the method forward. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems*, CHI EA '19, pages SIG06:1–SIG06:4, New York, NY, USA, 2019. ACM.
6. Kathryn Kresnye*, Juan F. Maestre*, Ben Jelen*, Mona Y. Alqassim*, Maria K. Wolters, and Katie A. Siek. Lessons learned from research via private social media groups. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems*, CHI EA '19, pages CS04:1–CS04:8, New York, NY, USA, 2019. ACM.
7. Haley MacLeod*, Ben Jelen*, Annu Prabhakar*, Lora Oehlberg, Katie A. Siek, and Kay Connelly. Lessons learned from conducting group-based research on facebook. In *Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems*, CHI EA '16, pages 804–815, New York, NY, USA, 2016. ACM.
8. Yunan Chen, Karen G. Cheng, Charlotte Tang, Katie A. Siek, and Jakob E. Bardram. Is my doctor listening to me?: Impact of health it systems on patient-provider interaction. In *CHI '13 Extended Abstracts on Human Factors in*

Computing Systems, CHI EA '13, pages 2419–2426, New York, NY, USA, 2013. ACM.

Non-Refereed Conference Publications

1. Katie A. Siek, Ashraf Khalil, Yong Liu, Nick Edmonds, and Kay H. Connelly. A comparative study of web language support for mobile web browsers. In *www@10*, page 8 pages, 2004.
2. Kay H. Connelly, Tom Jagatic, Ashraf Khalil, Yong Liu, Katie A. Siek, and Sid Stamm. The Internet hunt revisited: Personal information accessible via the web. In *www@10*, page 9 pages, 2004.

Invited Conference Publications

1. Katie A. Siek, Danish Ullah Khan*, and Stephen E. Ross. A usability inspection of medication management in three personal health applications. In *Human Centered Design*, pages 129–138. Springer Berlin/Heidelberg, 2009. http://dx.doi.org/10.1007/978-3-642-02806-9_16.
2. Kay H. Connelly, Katie A. Siek, Yvonne Rogers, Josette Jones, Michael A. Kraus, Susan Perkins, Laurie L. Trevino, and Janet L. Welch. Designing a PDA interface for dialysis patients to monitor diet in their everyday life. In *Proc. of Human Computer Interaction - International*, page 5 pages.

Abstracts

1. Kay Connelly, Katie Siek, Janet Welch, Beenish Chaudry*, Josette Jones, and Linda Scott. Case study of design of a mobile health application for a chronically ill, low-literacy population. In *mHealth Summit: Mobile Technologies as a Platform for Health Research and Healthcare Delivery*, page 2 pages. Foundation for the National Institutes of Health, 2009.
2. Janet L. Welch, Kay Connelly, Katie A. Siek, Josette Jones, Susan M. Perkins, Beenish Chaudry*, Janet Kain, Linda Scott, Kim Astroth, Seongkum Heo, Sue McManus, Jerry T. Mooney, and Cynthia S. Johnson. Merging literacy with computer technology for self-managing diet and fluid intake. In *20th International Nursing Research Congress Focusing on Evidence-Based Practice*, page 1 page, 2009.
3. Janet L. Welch, Kay Connelly, Katie A. Siek, Josette Jones, Susan M. Perkins, Beenish Chaudry*, and Laurie Trevino. Designing a personal digital assistant (PDA) application to self-monitor dietary and fluid intake. In *National Kidney Foundation Abstracts of 2008 Clinical Meetings Poster Presentations*, page 1 page, New York, NY USA, 2008. National Kidney Foundation, Inc.

Refereed Workshop Publications

1. Pallabi Bhowmick*, Novia Nurain*, Kay H. Connelly, and Katie A. Siek. Design and evaluation of electronic check-in systems for older adults. In *Proceedings of Designing Interactions for the Ageing Populations – Addressing Global Challenges*, pages 1–5, 2020.
2. Ben Jelen* and Katie A. Siek. Hands-on paper circuits: Quickly prototyping interactive designs. In *Proceedings of EduCHI 2020*, pages 1–4, 2020.
3. Katie Spoon[#], David Crandall, and Katie Siek. Towards detecting dyslexia in children’s handwriting using neural networks. In *Proceedings of the International Conference on Machine Learning AI for Social Good Workshop*, pages 1–5, 2019.
4. Tiffany C. Veinot, Jessica S. Ancker, Courtney Lyles, Andrea G. Parker, and Katie A. Siek. Good intentions are not enough: Taking action to ensure that health informatics interventions do not worsen inequality. In *Workshop on Interactive Systems in Healthcare (WISH) 2017*, 2017.
5. Julia C. Dunbar[#], Ciabhan L. Connelly[#], Juan F. Maestre*, Haley MacLeod*, Katie Siek, and Patrick C. Shih. Considerations for using the asynchronous remote communities (ARC)method in health informatics research. In *Workshop on Interactive Systems in Healthcare (WISH) 2017*, page 6 pages, 2017.
6. Haley MacLeod*, Maia Jacobs*, Katie Siek, Kay Connelly, and Elizabeth D. Mynatt. Ethical considerations in pervasive health research. In *Proceedings of the 10th EAI International Conference on Pervasive Computing Technologies for Healthcare*, PervasiveHealth '16, pages 326–329, ICST, Brussels, Belgium, Belgium, 2016. ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering).
7. Haley MacLeod*, Kim Oakes*, Kay Connelly, and Katie Siek. Methods for studying rare disease populations. In *CHI 2015 Advancing Health and Wellness Technology Research in Home and Community Settings Workshop*, page 4 pages, 2015.
8. Jochen Meyer, Young S. Lee, Katie A. Siek, Susanne Boll, Oscar Mayora, and Carsten Röcker. Wellness and well-being: Challenges and opportunities for HCI. In *Designing for Wellness and Behavior Change at NordiCHI 2012*, page 5 pages, 2012.
9. Swamy Ananthanarayan and Katie A. Siek. Persuasive wearable technology design for health and wellness. In *Wellness Interventions and HCI Workshop at Pervasive Healthcare 2012*, page 5 pages, 2012.
10. Julie Maitland and Katie A. Siek. Small hammers and silver bullets: Low-income families dietary behavioral change and UbiComp. In *Globicomp: Taking UbiComp Beyond Developed Worlds - Workshop at 11th international conference on Ubiquitous computing - UbiComp 2009*, page 4 pages, 2009.
11. Katie A. Siek, Steven E. Ross, Kay H. Connelly, Jeffrey S. LaMarche*, Danish Ullah Khan*, and Beenish Chaudry*. Challenges in evaluating three assistive health applications. In *Evaluating New Interactions in Healthcare: Challenges and Approaches Workshop at the 27th international conference on Human factors in computing systems - CHI 2009*, page 4 pages, 2009.

12. Katie A. Siek, Kay H. Connelly, Yvonne Rogers, Paul Rohwer*, Desiree Lambert, and Janet L. Welch. The food we eat: An evaluation of food items input into an electronic food monitoring application. In *Ubiquitous Healthcare - UbiHealth 2006 - Workshop 8th international conference on Ubiquitous computing - UbiComp 2006*, page 12 pages, 2006.
13. Katie A. Siek and Kay H. Connelly. Lessons learned conducting user studies in a dialysis ward. In *Reality Testing Workshop - at the 24th international conference on Human factors in computing systems - CHI 2006*, page 4 pages, 2006.

Non-Refereed Workshop Publications

1. Danish U. Khan*, An T. Le#, and Katie A. Siek. Designing a sociotechnological intervention to improve snacking in low socioeconomic families. In Madhu Reddy, Lena Mamykina, and Andrea Grimes Parker, editors, *Workshop on Interactive Systems in Healthcare*, pages 72–76, 2011.
2. Christopher L. Schaeffbauer* and Katie A. Siek. The potential to integrate computational thinking into k-12 health curriculums. In Madhu Reddy, Lena Mamykina, and Andrea Grimes Parker, editors, *Workshop on Interactive Systems in Healthcare*, pages 165–169, 2011.
3. Swamy Ananthanarayan*, Alice Y. Chien#, Miranda Sheh#, and Katie A. Siek. Visualizing physical therapy with electroluminescence wire. In Madhu Reddy, Lena Mamykina, and Andrea Grimes Parker, editors, *Workshop on Interactive Systems in Healthcare*, pages 179–182, 2011.
4. Katie A. Siek. Position statement: Improving the feedback loop. In *Workshop on Accessible Electronic Health Records co-located with ASSETS 2010*, page 2 pages, 2010.

Popular Press

1. Katie A. Siek. Why fitness trackers may not give you all the ‘credit’ you hoped for. In *The Conversation*, January 2020. Translated to French and Finnish.
2. Yunan Chen, Karen Cheng, Charlotte Tang, Katie A. Siek, and Jakob E. Bardram. The invisible work of health providers. *interactions*, 21(5):74–77, September 2014.
3. Jochen Meyer, Susanne Boll, Young S. Lee, Oscar Mayora, Katie Siek, and Carsten Röcker. Wellness interventions and hci: theory, practice, and technology. *SIGHIT Rec.*, 2(2):51–53, September 2012.
4. Katie A. Siek and Eugene Medynskiy. Pervasive healthcare 2010: Two perspectives. *IEEE Pervasive Computing*, 10:8–11, July 2011.
5. Katie A. Siek and Minaxi Gupta. Publish and prosper or procreate and perish? In Suzanne Menzel and Katie A. Siek, editors, *ACM-W Newsletter*, pages 3–9, Summer 2011.
6. Katie A. Siek. What are our responsibilities when designing sociotechnical health interventions? In Elizabeth D. Mynatt, editor, *interactions*, volume 18, pages 20–23, New York, NY, USA, September 2011. ACM.
7. Rebecca E. Grinter, Katie A. Siek, and Andrea Grimes*. Is wellness informatics a field of human-centered health informatics? In *interactions*, pages 76–79. ACM, January + February 2010. DOI: 10.1145/1649475.1649494.

8. Steve Neely, Graeme Stevenson, Christian Kray, Ingrid Mulder, Kay Connelly, and Katie A. Siek. Evaluating pervasive and ubiquitous systems. *IEEE Pervasive Computing*, 7(3):85–88, 2008. DOI: <http://dx.doi.org/10.1109/MPRV.2008.47>.
9. Janet L. Welch, Katie A. Siek, Kay H. Connelly, Josette F. Jones, Susan M. Perkins, and Laurie L. Trevino. Technology in the dialysis clinic: Researchers study how patients can use PDAs to self-monitor diet. In *Renal Business Today*, page 2 pages, 2006. <http://www.renalbusiness.com/articles/2006/12/technology-in-the-dialysis-clinic.aspx>.
10. Katie A. Siek, Kay H. Connelly, Amanda L. Stephano, Suzanne Menzel, Jacki Bauer, and Beth Plale. Breaking the geek myth: Addressing young women’s misperceptions about technology careers. In *Learning and Leading with Technology*, volume 33, pages 19–22. International Society for Technology in Education (ISTE), April 2006.

Workshop Reports

1. Sujata Banerjee, Yiling Chen, Kobbi Nissim, David Parkes, Katie Siek, and Lauren Wilcox. Modernizing data control: Making personal digital data mutually beneficial for citizens and industry. Technical report, Computing Community Consortium (CCC): A Computing Community Consortium (CCC) Quadrennial Paper, 2020. 6 pages.
2. Katie Siek, Tiffany Veinot, and Beth Mynatt. Research opportunities in sociotechnical interventions for health disparity reduction. Technical report, Computing Community Consortium (CCC), 2019. 30 pages.

Small Organized Workshops

1. Audrey Girouard, David McGookin, Peter Bennett, Orit Shaer, Katie A. Siek, and Marilyn Lennon. Tangibles for health workshop. In *Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems*, CHI EA ’16, pages 3461–3468, New York, NY, USA, 2016. ACM.
2. Emma Nicol, Mark Dunlop, Andreas Komninos, Marilyn McGee-Lennon, Lynne Baillie, Alistair Edwards, Parisa Eslambolchilar, Joy Goodman-Deane, Lilit Hakobyan, Jo Lumsden, Ingrid Mulder, Patrick Rau, and Katie Siek. Re-imagining commonly used mobile interfaces for older adults. In *Proceedings of the 16th International Conference on Human-computer Interaction with Mobile Devices & Services*, MobileHCI ’14, pages 585–588, New York, NY, USA, 2014. ACM.
3. Jochen Meyer, Steven Simske, Katie A. Siek, Cathal G. Gurrin, and Hermie Hermens. Beyond quantified self: Data for wellbeing. In *CHI ’14 Extended Abstracts on Human Factors in Computing Systems*, CHI EA ’14, pages 95–98, New York, NY, USA, 2014. ACM.
4. K. Connelly, K.E. Caine, K.A. Siek, J.A. Kientz, D. Kutz, R. Hanania, D.U. Khan, and E.Y. Choe. Evaluating off-the-shelf technologies for personal health monitoring: A hands-on workshop. In *Proceedings of the 14th International Conference on Ubiquitous Computing*, page 4 pages, 2012.
5. Young S. Lee, Jochen Meyer, Susanne Boll, Katie A. Siek, and Oscar Mayora. Wellness interventions and HCI. In *6th International Conference on Pervasive Computing Technologies for Healthcare*, page 2 pages, 2012.

6. Dola Saha, Allison Brown, Noelle Beaujon, Pooneh Mortazavi, Maddy Leary, and Katie A. Siek. CU in CS, 2012. Boulder, Colorado. Co-Organizer; Faculty Advisor.
7. Rebecca E. Grinter, Katie A. Siek, and Andrea Grimes*. Wellness informatics: towards a definition and grand challenges. In *CHI EA '10: Proceedings of the 28th of the international conference extended abstracts on Human factors in computing systems*, pages 4505–4508, New York, NY, USA, 2010. ACM. <http://doi.acm.org/10.1145/1753846.1754185>.
8. Chris Stephenson, Suzanne Menzel, Katie A. Siek, and Sriram Mohan. Improving K-12 outreach through roadshows. In *SIGCSE EA '09: Proceedings of the 40th SIGCSE technical symposium extended abstracts on Computer science education*, page 2 pages, New York, NY, USA, 2009. ACM.
9. Paul D. Rohwer*, Julie Maitland*, Kay H. Connelly, Katie A. Siek, Gisele Bennett, and Valerie Lafond-Favieres. Technology has escaped from the zoo: studying usability in the wild. In C. Baranauskas, P. Palanque, J. Abascal, and S.D. Junqueira Barbosa, editors, *Interact EA 2007: 11th IFIP TC 13 International Conference extended abstracts on Human-Computer Interaction*, volume 4662 of *Lecture Notes in Computer Science: Information Systems and Applications, incl. Internet/Web, and HCI*, page 2 pages, 2007.
10. Samantha Foley*, Jennifer Franko, Laura Hopkins, Suzanne Menzel, and Katie A. Siek. Demystifying and degeekifying computing through k-12 outreach. In *SIGCSE EA '07: Proceedings of the 38th SIGCSE technical symposium extended abstracts on Computer science education*, page 2 pages, New York, NY, USA, 2007. ACM.
11. Bring it on!, 2006. Bloomington, Indiana. Co-Organizer and Presenter.
12. Computing outreach in Indiana (COIN), 2006. Bloomington, Indiana. Co-Organizer.
13. Gisele Bennett, Gitte Lindgaard, Bruce Tsuji, Kay H. Connelly, and Katie A. Siek. Reality testing: HCI challenges in non-traditional environments. In *CHI '06: CHI '06 extended abstracts on Human factors in computing systems*, pages 1679–1682, New York, NY, USA, 2006. ACM.

Posters

1. Annu Sible Prabhakar*, Anup Bharadwaj*, Sujith Shivaprakash*, Xiao Liang*, Katie Siek, and Kay Connelly. Designing social support enabling mobile application for new mothers. In *12th EAI International Conference on Pervasive Computing Technologies for Healthcare – Demos, Posters, Doctoral Colloquium*. EAI, 8 2018.
2. Lucia Guerra-Reyes, Katie A Siek, Asia Harris*, Annu Prabhakar*, and Vanessa M Christie*. Between knowledge and social support: Health information seeking using mobile phones among low income new mothers. In *American Public Health Association Annual Meeting*, 2015.
3. Priscilla Barnes, Kelly E. Caine, Kay Connelly, and Katie A. Siek. Understanding the needs of low ses patients with type 2 diabetes. In *PervasiveHealth*, pages 302–306, 2013.

4. Katie A. Siek, Jane Meyers*, Stephen E. Ross, and Leah Haverhals. Colorado care tablet: Developing a personal health record for older adults. In *MobiSys EA '08: Extended Abstracts for Proceeding of the 6th international conference on Mobile systems, applications, and services*, page 1 page, New York, NY, USA, 2008. ACM.
5. Katie A. Siek, Jane Meyers*, Stephen E. Ross, , and Leah Haverhals. Colorado care tablet: Designing a personal health record for older adults. In *Proceedings from the Colorado Celebration of Women in Computing*, page 1 page, Boulder, Colorado, USA, 2008.
6. Vivian Phinney#, Steven Carroll#, Leonid Meltrager#, and Katie A. Siek. Avalon: Facilitating the use of the internet for older adults. In *Proceedings from the Colorado Celebration of Women in Computing*, page 1 page, Boulder, Colorado, USA, 2008.
7. Katie A. Siek, Kay Connelly, and Yvonne Rogers. Fat finger worries: How older and younger users physically interact with PDAs, 2005. **Second Place Outstanding Research Award in Technology Category.**
8. Katie A. Siek and Kay H. Connelly. Assistive technologies for dialysis patients. In *Proceedings of Grace Hopper Celebration of Women in Computing 2004*, 2004. **Best Technical Poster for a New Investigator.**
9. Rob Armstrong, Nina Berry, Ron Kyker, Carmen Pancerella, Christine Yang, Katie Moor (Siek), Alicia (Pippin) Wolfe, Eric Burns, Brian Lambert, Stephen Elliott, Tony Fan, Chris Kershaw, and Hillary Davis. A general framework for wireless smart distributed sensors. In *Supercomputing '01: Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)*, New York, NY, USA, 2001. ACM.
10. Katie A. Moor (Siek), Helen Chen, and James Brandt. Evaluation of gigabit ethernet for cluster computing. In *SIGCSE EA '01: Proceedings of the thirty-second SIGCSE technical symposium on Computer Science Education 2001*, New York, NY, USA, 2001. ACM. **Placed in Top 5.**

Technical Reports

1. Vivian Phinney#, Leonid Meltreger#, Steven Carroll#, and Katie A. Siek. Avalon: Facilitating the use of the Internet for older adults CU-CS-1041-08. Technical Report CU-CS-1041-08, University of Colorado at Boulder Department of Computer Science, 2008. 80 pages.
2. Katie A. Moor (Siek), Kay H. Connelly, and Yvonne Rogers. A comparative study of elderly, younger, and chronically ill novice PDA users. Technical Report TR 595, Indiana University, June 2004.

Software

2018-Present

Aging in Place Check-In Toolkits - we adapted the TAIPOR toolkit to communicate wirelessly to provide older adults and their loved ones the ability to "check in" with each other. Funded by the Indiana University Center for Rural Engagement.

2015-Present

Toolkits for Aging in Place for Older Retirees (TAIPOR) - a toolkit based on commodity open-source hardware to empower older adults to design and create their own aging in place technologies. Funded by the National Science Foundation.

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| <i>2014-Present</i> | HomeSHARE - a geographically distributed, in situ test bed that provides CISE researchers with an environment to design, develop, and evaluate pervasive technologies in older adult's homes. Funded by the National Science Foundation. |
| <i>2014-2018</i> | Muscle Memory - a wearable knee brace Arduino system to assist coaches and athletes in high intensity exercise communities ensure athletes are using proper form in their squat workouts. |
| <i>2013-2015</i> | Health Sense -a custom tool kit that provides children with the ability to create plug-and-play wellness monitoring wearable components. |
| <i>2012-2016</i> | Snack Buddy - a mobile phone application to assist low socioeconomic status families manage their snacking habits through gaming and non-gaming interfaces. Funded by the National Science Foundation. |
| <i>2012-2014</i> | #Health@You - an SMS-based system that provides chronically ill populations with the ability to send text-based glanceable displays via text message to a Personal Health Record that can store, query, or forward messages to caregivers. Funded by the Colorado Research Administration. |
| <i>2006-2008</i> | Dietary Intake Monitoring Application (DIMA) - a PDA application to assist low literacy dialysis patients monitor their fluid and nutrient intake. Software was developed in collaboration with researchers from Indiana University Department of Computer Science and Indiana University School of Nursing. Funded by the National Institute of Biomedical Imaging and Bioengineering (NIBIB). |
| <i>2006-2009</i> | Colorado Care Tablet (CO Care Tablet) - an open source web application that provides older adults the ability to create medication lists, learn about medications, check red flags, and coordinate care with their healthcare providers. Application developed in collaboration with the University of Colorado Denver Anschutz Medical Campus and Vanderbilt University Biomedical Informatics Department. Funded by the Robert Wood Johnson Foundation Project HealthDesign and the California HealthCare Foundation. |

Presentations

Presentations since 2006

Invited Presentations

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| <i>4 March 2021</i> | Graduate programs as path to re-entry in emerging tech. NSF RESET Virtual Conference. |
| <i>22 February 2021</i> | Live, Love, Research: Developing Health Informatics Technologies. Keynote at OurCS@DFW & Student Computing Research Festival, Virtual. |
| <i>15 October 2019</i> | Aging in a Smart Place, Active Aging Coalition, Bloomington, Indiana. |
| <i>17 September 2019</i> | Flipping the Switch 2019: Indiana's K-12 Computer Science Education Summit Indianapolis, Indiana. |
| <i>6 September 2019</i> | Amplifying Voices: Inclusively Developing Sociotechnical Health Systems with People, SICE Colloquium, Indiana University, Bloomington, Indiana. |
| <i>3 August 2019</i> | WTIU 2nd Annual Conference on Aging Aging in a Smart Place, WTIU Public Television from Indiana University |
| <i>12 February 2019</i> | Amplifying Voices: Inclusively Developing Sociotechnical Health Systems with People, University of Southampton, Southampton, Hampshire, UK |
| <i>26-28 October 2018</i> | OurCS, Bloomington, IN, USA. |

- 8 November 2018 Amplifying Voices: Inclusively Developing Sociotechnical Health Systems with People, GVU Brown Bag, Atlanta, GA, USA.
- 6 December 2018 University of St. Andrews, Scotland.
- 16 May 2018 Report from the Workshop on Sociotechnical Interventions for Health Disparity Reduction Online Webinar with the American Medical Informatics Association
- 10 May 2018 Airmen designing *with* and *for* themselves Air Force Science and Technology 2030, Bloomington, IN, USA
- 23 April 2018 Fresh Breakout: Tips and thoughts for new PIs and new REU Sites , San Diego, CA, USA
- 13 April 2018 If You Build It Indiana University Research Horizons, Bloomington, IN, USA
- 6 March 2018 Empowering *People* to Manage their Health The National Health IT Collaborative for the Underserved Collaborative's "Leveraging Health IT to Address Health Disparities: A Leadership Conference" at HX360 Executive Engagement held in conjunction with HIMSS18, Las Vegas, NV, USA
- 31 March 2017 Live, Love, Research: Developing Health Informatics Technologies to Leave the World Better than I Found It, East Lansing, Michigan, USA **Computing Research Association Distinguished Lecture Series**
- 21 March 2017 If you give a researcher a digital biomarker NSF Smart and Connected Health Visioning Meeting, Boston, MA, USA
- 5 December 2016 What's in it for the patient^{person}? Discovery and Innovation in Smart and Pervasive Health, Washington, DC, USA
- 15 November 2016 Engaging Everyday People to Contribute Towards the Design of Sociotechnical Health Systems, Invited Talk from Northwestern University Feinberg School of Medicine, Department of Preventative Medicine, Chicago, Illinois, USA
- 4 November 2016 Engaging Everyday People to Contribute Towards the Design of Sociotechnical Health Systems, Invited Talk from The Ohio State University, College of Medicine, Department of Biomedical Informatics, Columbus, Ohio, USA
- 21 October 2016 The Graduate School Experience, Invited Talk from The Computing Research Association's Committee on the Status of Women in Computing Research (CRA-W) at Grace Hopper Celebration of Women in Computing, Houston, Texas, USA
- 1 April 2016 If You Build It, Colloquium. Indiana University Purdue University Indianapolis, Indianapolis, Indiana, USA
- 4 February 2016 If You Build It Technology and Social Behavior Speaker Series, Northwestern University, Chicago, Illinois, USA
- 24 August 2015 If you build it. University of Dundee, Dundee, Scotland
- 18 August 2015 If you build it. University of Edinburgh, Edinburgh, Scotland
- 5 August 2015 If you build it. University of Strathclyde, Glasgow, Scotland
- 30 June 2014 Proactive Health Informatics at IU Exploring Interdisciplinary Grand Challenges in ICT Design to Support Proactive Health and Wellbeing Dagstuhl Seminar, Germany.
- 26 April 2014 If you build it. Beyond Quantified Self: Data for Wellbeing (CHI Workshop), Toronto, Canada.
- 17 April 2014 If you build it. Purdue University, West Lafayette, IN.
- 17 April 2014 Live, Love, Research: Developing Health Informatics Technologies. Purdue University, West Lafayette, IN.

- 21 March 2014 If you build it. University of Notre Dame, Notre Dame, IN.
- 11 December 2013 Improving Individual's Health with Sociotechnical Interventions. University of Maryland Baltimore County, online.
- 8 November 2013 Health Bridge: Improving Caregiver Snacking Behavior in Low SES Families. Consortium on Real Experiences in Public Health and Information Technologies (CORE-PHIT), Bloomington, IN.
- 28 October 2013 Empowering People with Low Literacy Skills to Manage their Diets. 5th Annual Health Literacy Research Conference, National Academy of Sciences, Washington, D.C.
- 6 April 2013 Interdisciplinary Research: Making a Broader Impact. CRA-W Graduate Cohort Workshop, Boston, Massachusetts.
- 8 February 2013 The Potential of Computing to Improve the Health Information Feedback Loop. Indiana University, The School of Informatics and Computing Colloquium Series, Bloomington, Indiana.
- 12 October 2012 Patient Engagement Panel, Computing Community Consortium Health IT Symposium, Bethesda, Maryland.
- 23 May 2012 Joint Workshop: Wellness Interventions and HCI and User Centered Design of Pervasive Healthcare Applications Workshop Overview, Pervasive Healthcare 2012, San Diego, California.
- 10 February 2012 Live, Love, Research: Developing Health Informatics Technologies. Indiana Celebration of Women in Computing, Spencer, Indiana.
- 23 October 2011 Designing Health & Wellness Applications: A Human Computer Interaction Perspective. Consumer Health Informatics and Knowledge in Motion Working Groups Panel at AMIA 2011 Annual Symposium, Washington, DC.
- 21 October 2011 PhD and Beyond: From Research Questions and Approaches to Independent Research. Sociotechnical Doctoral Consortium at AMIA 2011 Annual Symposium, Washington, DC.
- 31 August 2011 The Potential of Computing to Improve the Health Information Feedback Loop. DUB Talk, University of Washington, Seattle, Washington.
- 6 May 2011 The Potential of Computing to Improve the Health Information Feedback Loop. ISyE 961: Research and Design in Home Care, University of Wisconsin, Madison, Wisconsin.
- 26 April 2011 Health Informatics, ECSITE GK-12 Meeting, Boulder, Colorado.
- 8 February 2011 Live, Love, Research: Creating Technologies that Improve Health Women in Science Conference at the Science Museum Oklahoma. Oklahoma City, Oklahoma.
- 30 November 2010 Designing a Personal Health Application for Older Adults to Manage Medication. University of Colorado Health Care Informatics Webinar.
<https://connect.cuonline.edu/p12164329/>.
- 5 November 2010 Live, Love, Research: Developing Health Informatics Technologies to Leave the World Better than I Found It. Academic Keynote at the Colorado Celebration of Women in Computing. Golden, Colorado.
- 1 November 2010 Experiences in Undergraduate Research. Panelist. CU Engineering Honors Program. Boulder, Colorado.
- 1 October 2010 Imposter Plenary Panel: Addressing Unique Challenges. Panelist. Grace Hopper Celebration of Women in Computing 2010, Atlanta, Georgia.

- 9 September 2010* The Potential of Computing to Improve the Health Information Feedback Loop. University of Colorado Department of Computer Science. Boulder, Colorado.
- 16 July 2010* Colorado Care Tablet: The Design of an Interoperable Personal Health Application to Help Older Adults with Multimorbidity Manage their Medications. Centre for Rural Health at the University of Aberdeen, Inverness, Scotland.
- 9 July 2010* Getting over the Wow Factor: The Iterative Development of a Mobile Health Application. dot.rural at the University of Aberdeen, Aberdeen, Scotland.
- 8 July 2010* Exploring How to Motivate Assistive Health Application Use. University of Dundee School of Computing, Dundee, Scotland.
- 25 June 2010* Don't They Do That? Design Challenges for Electronic Personal Health Records. University of Edinburgh School of Informatics, Edinburgh, Scotland.
- 3 June 2010* Exploring How to Motivate Assistive Health Application Use. Glasgow Interactive Systems Group Seminar (U. of Glasgow), Glasgow, Scotland.
- 26 May 2010* Tetris Bikes and Mobile Scavenger Hunts: Designing a Games for Health Course in an Interdisciplinary Classroom. Games for Health Conference, Boston, Massachusetts.
- 2 April 2010* Wielding Technology's Wonders to Empower Personal Health Monitoring. Colorado State University's 3rd Biennial Future Visions Symposium, Fort Collins, Colorado.
- 24 March 2010* Who is benefiting from Pervasive Healthcare and how can it be proven? Panelist. Pervasive Healthcare 2010, Munich, Germany.
- 17 February 2010* Exploring How to Motivate Assistive Health Application Use. Colorado Council of Medical Librarians, Denver, Colorado.
- 29 January 2010* Exploring How to Motivate Assistive Health Application Use. Mathematical and Computer Sciences Seminar, Colorado School of Mines, Golden, Colorado.
- 24 November 2009* Exploring How to Motivate Assistive Health Application Use. Centre for Health Informatics, University of New South Wales, Sydney, Australia.
- 27 January 2009* Magic, Heart Attacks, and Jail Stories: Challenges Associated with Consumer Health Informatics Technologies. Nokia Research, Palo Alto, California.
- 5 February 2007* Magic, Heart Attacks, and Jail Stories: Challenges Associated with Consumer Health Informatics Technologies. Center of Computational Pharmacology, Denver, Colorado.
- 10 November 2007* Designing a Personal Health Record (PHR) for the Future User. AMIA 2007 Nursing Informatics Symposium, November 10, 2007, Chicago, Illinois.
- 1 March 2007* Sanitized Prototypes and Cargo Pants: Design and Evaluation of an Assistive Application for Dialysis Patients. Rensselaer Polytechnic Institute Computer Science Colloquium, Troy, New York.
- 8 November 2006* Improving Patient Quality of Life with Consumer Health Informatics. Center for LifeLong Learning and Design, November 8, 2006. Boulder, Colorado.
- 13 October 2006* Sanitized Prototypes and Cargo Pants: Design and Evaluation of an Assistive Application for Dialysis Patients. Institute of Cognitive Science, Boulder, Colorado.
- 23 September 2006* Pervasive Computing in Healthcare. Mi-Tech Group, Denver, Colorado.
- Conference Presentations**
- 4 November 2017* Good Intentions Are Not Enough: Health Informatics Interventions That Worsen Inequality, Panelist, WISH, Washington, DC, USA

- 4 October 2017 Accessibility in the Digital Age and Cognitive Era , Panelist, Grace Hopper, Orlando, FL, USA
- 10 May 2017 Bridging Communities for Better HIT: Streaming Conversations from WISH on Challenges, Strategies, and Opportunities, Panelist, ACM Computer Human Interaction, Denver, Colorado, USA
- 14 November 2016 Adding Undergraduate Research Experiences to the Medical Informatics Pipeline, AMIA 2016 Annual Symposium, Chicago, Illinois, USA
- 14 November 2016 Interactive Systems in Healthcare - Where do we go from here?, Panelist, AMIA 2016 Annual Symposium, Chicago, Illinois, USA
- 21 October 2016 50 Shades of Academic Motherhood, Panelist, Grace Hopper Celebration of Women in Computing, Houston, Texas, USA
- 17 November 2015 Person-Clinical Interface in the Collaboration and Health Information Technologies: Towards Defining and Operationalizing the Collaboration Space Panel at AMIA Fall Symposium, San Francisco, California, USA
- 16 November 2015 People's Workflows and Daily Context in the Challenges, Successes, and Future Directions of Consumer Health IT Evaluation Panel at AMIA Fall Symposium, San Francisco, California, USA
- 15 November 2014 Community Based Participatory Research (CBPR) in Proactive Health Informatics Part of the CBPR Panel at the Workshop on Interactive Systems in Healthcare 2014 as part of AMIA, Washington, D.C.
- 30 April 2013 Patient-Provider Collaborations. CHI 2013 - Is my doctor listening to me?: impact of health it systems on patient- provider interaction Panel, Paris, France.
- 3 November 2012 Smart Health and Wellbeing Projects Panel, Workshop on Interactive Systems in Healthcare (WISH), Chicago, Illinois.
- 15 June 2011 Designing <adjective>-sensitive Health and Wellness Applications. HCIC 2011 - Field Deployments Panel, Pacific Grove, California.
- 25 May 2011 The design of a mobile portion size estimation interface for a low literacy population. 5th International Conference on Pervasive Computing Technologies for Healthcare, Dublin, Ireland.
- 12 November 2010 Designing a Personal Health Application for Older Adults to Manage Medications. First ACM International Health Informatics Symposium, Washington, D.C. (co-presented with Danish Ullah Khan)
- 28 November 2009 Technological Approaches to Promoting Physical Activity. OZCHI '09: the 21st Australian Conference on Computer-Human Interaction, Melbourne, Australia.
- 26 November 2009 Bridging the Information Gap: Collaborative Technology Design with Low-Income At-Risk Families to Engender Healthy Behaviors. OzCHI '09: the 21st Australian Conference on Computer-Human Interaction, Melbourne, Australia.
- 30 September 2009 The Knot or the Noose? Analysis of Privacy on a Wedding Planning Website. Grace Hopper Celebration of Women in Computing, Tucson, Arizona.
- 24 July 2009 Analysis of Information Disclosure on a Social Networking Site. HCII '09: the 13th International Conference on Human-Computer Interaction, San Diego, California.
- 1 April 2009 Co-Presented with Julie Maitland. Persuasion not required: Improving our understanding of the sociotechnical context of dietary behavioural change. Pervasive Healthcare 2009: the 3rd International ICST Conference on Pervasive Computing Technologies for Healthcare, London, United Kingdom.
- 9 March 2007 Co-Presented with Gloria Childress Townsend. Leveling the CS1 Playing Field.

- SIGCSE '07: the 38th SIGCSE technical symposium on Computer science education, Covington, Kentucky.
- 29 November 2006 Co-Presented with Kay H. Connelly. When do we Eat? An Evaluation of Food Items Input into an Electronic Food Monitoring Application. Pervasive Healthcare 2006: the 1st International ICST Conference on Pervasive Computing Technologies for Healthcare, Innsbruck, Austria.
- 18 September 2006 The Food We Eat: An Evaluation of Food Items Input into an Electronic Food Monitoring Application. UbiHealth 2006: Workshop 8th international conference on Ubiquitous computing, Orange County, California.

Presentations in Other Courses

- Fall 2014, 2015 Wellness Informatics and Wearables in Health Informatics (2 lectures) . I400/H400/I590: Introduction to Health Informatics, Bloomington, Indiana.
- Fall 2014, 2015 Live, Love, Research: Creating Technologies that Improve Health. INFO-Y100, Bloomington, Indiana.
- 31 October 2013 Live, Love, Research: Creating Technologies that Improve Health. INFO-Y100, Bloomington, Indiana.
- 30 March 2011 Live, Love, Research: Creating Technologies that Improve Health. CSCI 1240: The Computational World, Boulder, Colorado.
- 12 March 2010 Magic, Heart Attacks, and Jail Stories: Challenges Associated with Consumer Health Informatics Technologies. CSCI 1240: The Computational World, Boulder, Colorado.
- 8 March 2010 Exploring How to Motivate Assistive Health Application Use . CSCI 4810 Seminar in Computational Biology and Health Informatics, Boulder, Colorado.
- 6 March 2008 Magic, Heart Attacks, and Jail Stories: Challenges Associated with Consumer Health Informatics Technologies. Clinical Sciences 6800 / HLTH 6071: Introduction to Health Information Technology, Denver, Colorado. (Presenter: 4.44/5; Presentation 4.5/5)
- 4 April 2007 Magic, Heart Attacks, and Jail Stories: Challenges Associated with Consumer Health Informatics Technologies. Health Sciences Center Medical Informatics Elective, Denver, Colorado.
- 6 November 2006 Planning your Academic Career . CSCI 2830: Computer Science as a Field of Work and Study, Boulder, Colorado.
- 16 October 2006 Ubiquitous Computing and Human Computer Interaction . CSCI 2830: Computer Science as a Field of Work and Study, Boulder, Colorado.

Funding Record

External Grants

Total External Grant Funding: \$4,817,484; Home Institution Portion: \$3,879,076; Total as PI: \$2,558,654

\$499,744 "AI Institute: Planning: AI Institute for Rural Health, Wellness, and Resilience" Principal Investigator: David Crandall. Funding Agency: National Science Foundation. Grant Duration: 09/2020-08/2022. **Co-PI.** IU Portion: \$499,744.

\$288,991 “REU Site: Proactive Health Informatics” Principal Investigator: Katie A. Siek. Funding Agency: National Science Foundation. Grant Duration: 02/2019-02/2021, **PI**. IU Portion: \$288,991.

\$499,907 “CHS: Small: Collaborative Research: Toolkits for Aging in Place for Older Retirees (TAIPOR)” Principal Investigators: Katie A. Siek and Amanda Lazar (U. of Maryland). Funding Agency: National Science Foundation. Grant Duration: 08/01/2018-07/31/2021, **Co-PI**. IU Portion: \$254,446

\$20,000 CHS: Small: Collaborative Research: TAIPOR: Research Experience for Teachers (RET) Supplement, **PI**. IU Portion: \$20,000

\$1,031,379 “CI-New: Collaborative Research: HomeSHARE - Developing a Community Infrastructure for Home-based Smart Health Applications across Research Environments” Principal Investigator: Kay Connelly (IU). Funding Agency: National Science Foundation. Grant Duration: 2016-2019, **Co-PI**. IU Portion: \$643,359.00

\$359,990 “REU Site: Proactive Health Informatics” Principal Investigator: Katie A. Siek. Funding Agency: National Science Foundation. Grant Duration: 02/16/2016-02/16/2019, **PI**. IU Portion: \$359,990.

\$22,215 “Pervasive Healthcare Doctoral Consortium 2016” Principal Investigator: Katie A. Siek. Funding Agency: National Science Foundation. Grant Duration: 2016, **PI**. IU Portion: \$22,215.00

£3,100 (\$4,422.77) “Distinguished Visiting Fellowship” Principal Investigator: Katie A. Siek. Funding Agency: Scottish Informatics and Computer Science Alliance (SICSA). Duration: 8/2015, **PI**. IU Portion: \$4,422.77.

\$68,968 “CI-P: Collaborative Research: HomeSHARE - Home-based Smart Health Applications across Research Environments” Principal Investigator: Kay Connelly. Funding Agency: National Science Foundation. Grant Duration: 09/01/2014-8/31/2015, **Co-PI**. IU Portion: \$68,968

\$21,948 “Pervasive Healthcare Doctoral Consortium 2014” Principal Investigator: Katie A. Siek. Funding Agency: National Science Foundation. Grant Duration: 05/20/2014-05/19/2014, IU Portion: \$21,948

\$45,000 “Workshop on Interactive Systems in Healthcare (WISH) 2012” Principal Investigator: Wanda Pratt. Funding Agency: Agency for Healthcare Research and Quality. Grant Duration: 08/28/2012-08/27/2013, **Co-PI** CU Portion: \$0

\$16,000 “SHB: TypeI(EXP): Health Sense: Motivating Health Awareness in Children through Wearable Computing Research Experience for Undergraduates Supplement” Principal Investigator: Katie A. Siek. Funding Agency: National Science Foundation. Grant Duration: 05/28/2013-07/31/2015, (**PI**) CU Portion: \$16,000

\$597,715 “SHB: TypeI(EXP): Health Sense: Motivating Health Awareness in Children through Wearable Computing” Principal Investigator: Katie A. Siek. Funding Agency: National Science Foundation. Grant Duration: 08/01/2012-07/31/2015, (**PI**) CU Portion: \$597,715

\$17,000 “Visualizing Physical Therapy with Electroluminescence Wire” Principal Advisor: Katie A. Siek. Funding Agency: Computer Research Association’s Committee on the Status of Women in Computing Research (CRA-W) and Coalition to Diversify Computing. Grant Duration: September 2011-August 2012, (**PI**) CU Portion: \$17,000

£2,900 (\$4,313.75) “Distinguished Visiting Fellowship: Understanding the Needs for Personal Health Record Adoption” **Principal Investigator: Katie A. Siek.** Funding Agency: Scottish Informatics and Computer Science Alliance (SICSA). Duration: 6/2010-7/2010. CU Portion: \$4,313.75

\$608,968 “CAREER: HEALTH BRIDGE: Motivating Personal Health Record Adoption by Low-Income Communities” **Principal Investigator: Katie A. Siek.** Funding Agency: National Science Foundation. Duration: 6/2009-6/2014. CU Portion: \$608,968

\$84,520 “Fluid Engage” Principal Investigator: Clayton Lewis. Funding Agency: The Andrew W. Mellon Foundation (Funded through the University of Toronto). Duration: 03/31/2009 - 03/31/2010. **(Co-Investigator)** CU Portion: \$84,520

\$50,000 Transition Funds. Principal Investigator: Steve Ross. Funding Agency: Robert Wood Johnson Foundation. Duration 8/2008-1/2009. **(Co-investigator)** CU Portion: \$28,710

\$50,000 Integration Funds. Principal Investigators: Steve Ross (UCHSC) and Kevin Johnson (Vanderbilt). Funding Agency: California HealthCare Foundation. Duration 5/2008 - 8/2008. **(Co-investigator)** CU Portion: \$29, 858

\$200 “University of Colorado at Boulder K-12 Outreach Roadshow” **Advisor: Katie Siek.** Funding Agency: Avon Hello Tomorrow through Indiana University Micro-Grant. CU Portion: \$200

\$6,500 “Facilitating the Use of the Internet for Older Adults” **Advisor: Katie Siek.** Funding Agency: Committee on the Status of Women in Computing Research (CRA-W) Collaborative Research Experience for Undergraduates in Computer Science and Engineering (CREU). Duration: 6/2007-6/2008. CU Portion: \$6,500

\$300,000 “Assisting Older Adults with Transitions of Care” Principal Investigator: Steve Ross. Funding Agency: Robert Wood Johnson Foundation. Duration 11/2006 - 5/2008. **(Co-investigator) 9 out of 165 funded; 5.5%** CU Portion: \$70, 052

\$189,375 “Self Monitoring of Dietary and Fluid Intake Using a PDA.” Principal Investigator: Janet L. Welch. Funding Agency: National Institute of Biomedical Imaging and Bioengineering. Duration: 09/2006 - 08/2008. **(Co-investigator)** CU Portion: \$31,066

Internal Grants

\$221,063 “Pilot of Aging in Place” Principal Investigator: Kay H. Connelly. Funding Agency: Center for Rural Engagement. Grant Duration FY 2019-FY 2020, **(Co-I)**

\$40 Million “Indiana University Grand Challenges Program: Precision Health Initiative” IU Principal Investigator: Anantha Shekhar; Informatics Principal Investigator: Predrag Radivojac. Grant Duration: 10/1/2016-10/1/2020, **(Faculty Investigator)**

\$6,500 “Exploring the Potential of Mobile Technology Use to Enhance Maternal and Child Health in South Central Indiana” Principal Investigators: Lucia Guerra-Reyes and Katie A. Siek. Funding Agency: Consortium for Real Experiences with Public Health Information Technologies. Grant Duration: 2/14/2014-2/13/2016, **(PI)**

\$46,000 “#Health@You: Glanceable Text-Based Displays” Principal Investigator: Katie A. Siek. Funding Agency: Colorado Research Administration. Grant Duration: 8/1/2012-7/31/2013, **(PI) 21 out of 122 funded; 17% CU Portion:** \$46,000

\$1,860 “Games for Health” Lead Team Member: Swaminathan Ananthanarayan. Funding Agency: University of Colorado at Boulder Engineering Excellence Fund Committee. Duration: 3/2011-12/2011. **(Faculty Sponsor)**

\$400 “Tetris Bike” Lead Team Member: Michael “Mo” Andrews. Funding Agency: University of Colorado at Boulder Engineering Excellence Fund Committee. Duration: 3/2010-7/2010. **(Faculty Sponsor)**

\$2,000 “Games for Health” Lead Team Member: Swaminathan Ananthanarayan. Funding Agency: University of Colorado at Boulder Engineering Excellence Fund Committee. Duration: 12/2009-7/2010. **(Faculty Sponsor)**

\$2,000 “Improving Recruitment and Retention of Women in Computing Related Fields at CU” Lead Team Member: Katie Siek. Funding Agency: University of Colorado at Boulder Engineering Excellence Fund Committee. Duration: 4/2007-9/2008. **(Lead Team Member)**

\$10,000 Engineering New Professor Award in the College of Engineering and Applied Science at the University of Colorado at Boulder. Duration: 09/2006 - \$5,000 and 09/2007 - \$5,000

Equipment Donations

\$9,000 donation in equipment (15 Google Phones) from Google Inc., NYC

\$9,780 donation in equipment (20 Nokia N95 smart phones) from Nokia Research.

Teaching

Undergraduate Non-Major Courses

1. HON-H 241: Making for Good - Spring 2018, Fall 2018
2. CSCI-C 102: Great Ideas in Computing - Summer 2017 & 2018 (15.625 contact hours in 2.5 weeks; Both semesters Co-taught class with Esfandiar Haghverdi)
3. 184I: Bridge to Informatics - Winter Term 2015 & 2016; Taught at DePauw University (102 contact hours per semester)
4. GEEN 1400: First Year Engineering Projects - Spring 2013, Fall 2009-2011, Spring 2009

Undergraduate Major Courses

1. INFO I101: Introduction to Informatics and Computing - Fall 2020
 - Fall 2020 - Led collaboration with Indiana University’s Diplomacy Lab to develop a social media campaign to highlight underrepresented innovators in STEM for the Department of State. Over 500 students learned about why it is important to have a diverse, inclusive culture in STEM and innovations underrepresented groups have contributed to STEM.

2. INFO I300: Intro to Human-Computer Interaction
3. INFO I210: Information Infrastructure 1 - Spring 2020
4. ENGR E101: Innovation and Design - Fall 2016 & 2017 (75 contact hours per semester)
5. INFO I399: Computing for Good - Fall 2014

Cross-listed Undergraduate and Graduate Courses

1. INFO I400/I590: Development of a Social Media Campaign - Fall 2020 (3-week, 1 credit)
2. INFO I400/H400/I590: Maker Movement in Health - Spring 2014
3. INFO I400/H400/I590: Introduction to Health Informatics - Spring 2014
4. CSCI 4312/5312: Health Informatics (Residential and Online) - Spring 2011, Fall 2008, Spring 2007
5. CSCI 4810/7000: Computational Biology and Health Informatics - Spring 2011
6. CSCI 4830/7000: Games for Health (Residential and Online) - Spring 2010
7. CSCI 4838/6838: User Interface Design (Residential and Online) - Spring 2008, Fall 2006 (Co-taught with Tammy Sumner)

Graduate Courses

1. I530: Field Deployments - Spring 2015, Spring 2016 (48 contact hours per semester)
2. CSCI 7000: Survey and Synthesis 2 - Spring 2012

Advising

- **Ph.D. Students**

- Pallabi Bhowmick (Fall 2019-Present)
- Yuxing Wu (Fall 2019)
- Cassie Kresnye (Fall 2017-Fall 2019)
- Ben Jelen (Fall 2015-Present)
 - * National Science Foundation Graduate Research Fellowship (2017)
- Haley MacLeod (Fall 2014-May 2018; Co-Advised with Kay Connelly; Now at Facebook)
 - * Received microgrant from the Rare Disease Foundation to investigate Recommender System Approaches to Tangible Support for People with Rare Diseases. \$2,450
- Annu Prabhakar (Spring 2015-Spring 2016)
- Christopher Lee Schaeffbauer (Fall 2011-Summer 2016 - Graduated; Now at Pinterest)
 - * National Science Foundation Graduate Research Fellowship Honorable Mention (2012)

* Graduate Fellowship in Community-Based Research (2015-2016)

- Swaminathan Ananthanarayan (Fall 2010-Winter 2016 - Graduated; Now a Professor at Monash University)
- Kimberly Oakes (Summer 2014-Spring 2015; Now at Equip)
- Allison Brown (Fall 2011-Spring 2014)
- Redhwan Nour (Spring 2013-Summer 2013)
- Halley Profita (Fall 2011-Fall 2012, Co-Advised with Mike Eisenberg; Now at Apple)
- Danish Ullah Khan (Spring 2009-August 2013 - Graduated; Now at Incorta)

• **Postdoctoral Researchers**

Leslie Liu (Fall 2015 - Spring 2017; Now at Facebook)

• **Ph.D. Student Rotations**

- Haley McLeod (Summer 2014)
- Ginger White (Spring 2014-Fall 2014)

• **M.S. Students**

- Kim Oakes (Summer 2014-Spring 2015, Now at Equip)
- Lauren Aberle, Colorado School of Mines - Thesis Advisor (Fall 2012-May 2014, Now at Google)
- Brittany Kos^{†2014, ‡2019} (Fall 2012-May 2013, Now at Code Differently)
- Janeen Neri (Spring 2012-May 2013, Now at Pandora)
- Rosalind O'Brien (Spring 2012-Fall 2013, Now at Gravity Group)
- Margaret McNulty (Fall 2011-Fall 2013, Now at CostCo Travel)
- Quintin Lee (Fall 2010-May 2011, Now at Google)
- Mark Major (Fall 2010-May 2011)
- Ashley Pimpinella (Fall 2010-May 2011)
- Faris Kateb (January 2010-Spring 2012, Now at King AbdulAziz University)
- Swaminathan Ananthanarayan (Fall 2009-Summer 2010)
- Azhar Sikander (Summer 2009-Fall 2009)
- Danish Ullah Khan (May 2008-December 2008)
- Narjis Ibrahim H Alqattan (2007-Spring 2009)
- Adel AlQahtani (2007)

• **M.E. Students**

- Aaron Schlicht (Fall 2011, Co-Advised with Sriram Sankaranarayanan, Now at Allegion)

• **B.S. Students - Research Experiences for Undergraduates^{2,3}**

Dr. Siek has advised 57 undergraduate researchers - 48 from underrepresented groups in STEM (84.21%); 43 women (75.43%); 12 from an underrepresented minority group (21.05%); 15 1st generation college students (26.32%); 19 went onto graduate school (36.53% of those who graduated).

²Undergraduates I mentored who went on to get a masters degree are indicated with a †*year finished* and those who went on to get a Ph.D. are indicated with a ‡*year finished*.

³I note if a PhD student or post doctoral researcher I work with primarily advised the students with my oversight

- Maddie Athansiou (AY 2020-2021), CEWiT, Primary Advisor: Pallabi Bhowmick
- Lisa Warren (AY 2021-2021), CEWiT, Primary Advisor: Pallabi Bhowmick
- Madison Hallowell (Summer 2019; Bates College), NSF ProHealth REU
- Adileah Smith (Summer 2019; University of Indianapolis), NSF ProHealth REU
- Susan Monsey (Fall 2018-Summer 2019; Indiana University), TAIPOR project
- Briana Hollins (Summer 2018; Indiana University), NSF ProHealth REU
- Carla Cobb (Summer 2018; DePauw University), NSF ProHealth REU
- Anne Freeman (Summer 2017; Georgetown University), NSF ProHealth REU
- Mina Narayanan†(Summer 2017; Auburn University), NSF ProHealth REU
 - * 2018 Barry Goldwater Scholarship Honorable Mention
 - * 2019 National Science Foundation Graduate Research Fellowship
 - * 2019 Gates Cambridge Finalist
- Anthony Tugman (Spring 2017), UROC, IU Bloomington
- Marisa Monetti (AY 2016-2017), CEWiT, IU Bloomington, Primary Advisor: Leslie Liu, **CEWiT Women’s Research Poster Competition Award in Technology & Computing Category**
- Karrie Kozokar (Fall 2016), UROC, IU Bloomington, Primary Advisor: Ben Jelen
- Sara Hayden (Fall 2016), UROC, IU Bloomington, Primary Advisor: Ben Jelen
- Olivia K. Richards ‡(Summer 2016; Penn State), NSF ProHealth REU
 - * **2nd Place in the ACM SIGCHI Undergraduate Student Research Competition**
- Samantha Whitman †²⁰¹⁸‡ (Summer 2016; Arizona State University), NSF ProHealth REU
- Anne Efron (Summer 2016), STIM Summer Research Placement
- Taraneh Ekbia †²⁰¹⁹ (Spring 2016), UROC, IU Bloomington, Primary Advisor: Ben Jelen, PhD student
- Harvest Ham (Spring 2016), UROC, IU Bloomington, Primary Advisor: Ben Jelen, PhD Student
- Peng Cheng (Spring 2016), UROC, IU Bloomington, Primary Advisor: Leslie Liu, Post Doctoral Researcher
- Luke Street (Spring 2016), NSF REU Supplement, IU Bloomington, Primary Advisor: Majdah Alshehri with oversight from Katie Siek and Kay Connelly
- Wei Zhang†²⁰²⁰ (Fall 2015-Spring 2016), CEWiT REU, IU Bloomington
- Kaitlin Gubert (Fall 2015), CEWiT REU, IU Bloomington
- Johnathan Nguyen † (Spring 2015), NSF REU Supplement, IU Bloomington
- Calvin Hicks (Fall 2014-Spring 2015), CU Boulder, Primary Advisor: Christopher Schaeftbauer, PhD Student
- Megan Dixon (Spring 2015), CEWiT REU, IU Bloomington

- Erin Leonhard (Fall 2014), IU Bloomington
 - Sarah Zhang (Spring 2014-December 2014), IU Bloomington
 - Garrett Sczechowski (Summer 2013), Purdue, Primary Advisors: Danish Khan and Christopher Schaeftbauer, PhD Students
 - Noelle Beaujon (Fall 2012), CU Boulder
 - Miranda Sheh† (Spring 2011, Summer 2011), CU Boulder, Primary Advisor: Swamy Ananthanarayan, PhD Student
 - Alice Chien (Spring 2011, Summer 2011), CU Boulder, Primary Advisor: Swamy Ananthanarayan, PhD Student
 - Tuong An (Amy) Le†²⁰¹⁵(Summer 2011), CU Boulder, Current: PhD Student at CU, Primary Advisor: Danish Khan, PhD Student
- **B.S. Thesis Advising**
 - Katherine "Katie" Spoon‡(Fall 2018-Spring 2019; Co-Advised with David Crandall)
 - * **2019 Provost's Awards for Undergraduate Research and Creative Activity in the Natural and Mathematical Sciences**
 - * **2019 National Center for Women in Information Technology Collegiate Award**
 - * **2019 National Science Foundation Graduate Research Fellowship**
 - Sarah Zhang (Spring 2014-December 2014)
 - Nathan Lapinski (Fall 2013-May 2014)
 - Christopher Lee Schaeftbauer †²⁰¹³‡²⁰¹⁶ (January 2010-May 2011)
 - Maryam Gooyabadi† (August 2009-May 2011)
- **B.S. Internship Advising**
 - Disha Waghay (Spring 2019)
- **Groups Scholars⁴**
 - Briana Hollins (Summer 2017-Present)
 - Arsema Taklezghi (Summer 2017)
 - Vanessa Pereira (Summer 2015-Spring 2019)
 - Ivorie Stallings (Summer 2015-Spring 2016)
 - Dewayne White (Summer 2014-Spring 2015)
 - Traivon Olive (Summer 2014)
- **Cox Scholar⁵**
 - Shayan Khokhar (Fall 2015-May 2018)
 - * **IU Bloomington Provost's Office's Undergraduate Research and Creativity Award (2018)**
 - Connor Ward (Spring 2016, Primary Advisor, Ben Jelen, PhD Student)

⁴Group Scholars advisors mentor and provide research opportunities to first-generation, low-income, and physically challenged students at Indiana University.

⁵Cox Scholar advisors mentor students in research for 10 hours each week.

- **IU-MSI STEM Initiative**⁶
 - Ujjwal “JJ” Baskota, Jackston State University, (Summer 2017)
- **IU-HBCU Summer STEM Scholars Institute**⁷
 - Abenezer Abegaz, Jackson State University (Summer 2014)
- **Committee on the Status of Women in Computing Research Collaborative Research Experience for Undergraduates (CRA-W CREU)**⁸
 - Lauren Fosco and Vivian Phinney† (Summer 2007-Summer 2008)
 - Miranda Sheh and Alice Chien (Fall 2011-Spring 2013)
- **Committee on the Status of Women in Computing Research (CRA-W) and the Coalition to Diversify Computing (CDC) Distributed Research Experiences for Undergraduates (DREU)**²
 - Kimberly Oakes, University of Alabama†²⁰¹⁵‡ (Summer 2012)
- **College of Engineering & Applied Science Discovery Learning Apprentices**
 - Nathan Tyler Lapinski (Fall 2011-Spring 2012, Co-Advised with Sriram Sankaranarayanan)
 - Mackenzie L. Miller (Fall 2009-Spring 2010)
 - Vivian Phinney† (Fall 2008)
- **College of Engineering & Applied Science Gold Shirt Students**
 - Elizabeth Lor†²⁰¹⁶ (Fall 2009-Spring 2013)
- **University of Colorado at Boulder Colorado Diversity Initiative Summer Multicultural Access to Research Training (SMART) Students**
 - Jasmine Jones, University of Maryland Baltimore County‡²⁰¹⁷ (Summer 2009)
- **University of Colorado at Boulder Your Own Undergraduate Research Experience (You’re @ CU)**
 - Emily Mendelsohn (Spring 2013)
 - Tuong An (Amy) Le†²⁰¹⁵ (Spring 2011)
- **Boulder Valley School District High School Science Research Class**
 - Monica Mishra† (Fall 2011-Spring 2012)

⁶The IU-MSI STEM Initiative is an academic and research partnership between Indiana University and multiple Minority Serving Institutions (MSI) that promotes and develops the science, technology, engineering and math (STEM) disciplines.

⁷The Summer Scholars Institute is an eight-week program held at the IU Bloomington that engages select HBCU and IU students in continuous, substantive research.

⁸The goal of this initiative is to increase the numbers of women and minorities who continue on to graduate school in computer science, engineering, and allied disciplines. The program provides positive research experiences for teams of undergraduates who work during the academic year and following summer at their home institutions.

Advising Committees

- **Ph.D. Committees**

- Fernando Juan Maestre (Fall 2018-Present)
- Michael Gonzales, University of Notre Dame (Spring 2015 - April 2016)
- Leigh Alexander, University of Colorado (April 2013 - Fall 2014)
- Ifeyinwa Okoye, University of Colorado (May 2012 - Fall 2013)
- Bradley Morse, University of Colorado (March 2011 - Fall 2013)
- Amanda Hughes, University of Colorado (November 2010 - Spring 2013)
- Hadjar Homaei, University of Colorado (October 2010 - April 2011)
- Qianyi Gu, University of Colorado (December 2007-Spring 2009)
- Melissa Dawe, University of Colorado (Fall 2006-Spring 2007)

- **External Vita Member**

- Feng Gao, University of Southampton (Fall 2014)

- **Ph.D. Prelim/Qual Committees**

- Andy Hunsucker, Indiana University (Fall 2015-January 2018)
- Fernando Juan Maestre (Spring 2018)
- Ben Leduc-Mills (Fall 2012)
- Nwanua Elumeze (Spring 2010)

- **M.E./M.S. Committees**

- Suzana Brown (2011-Spring 2013)
- Chris Shearer Cooper (2010-2011)
- David Randolph (2008-2009)
- Ghassan Zaynoun (2007)

- **B.S. Thesis Committee**

- Ariel Aguilar (Fall 2011 - Spring 2012)
- Patrick Mitchell (Fall 2010-Summer 2010)
- Rachel Schoenbauer (Spring 2007)

Independent Studies

- Dara Cunningham: Methods and Theory for Field Studies in Sustainability. (CU, Spring 2013)
- Allison Brown: Utilizing Natural Language Processing to Parse SMS Messages from Diabetic Patients. (CU, Fall 2011)
- Isaac Yoshino: Developing a Nutrition Monitoring Application for Psoriasis. (CU, Summer 2011)
- Danish Ullah Khan: Studying the interoperability of Personal Health Applications and associated information resources. (CU, Fall 2008)
- Katherine M. Peterson†: Comparing information disclosure in two social networking sites. (CU, Fall 2008)

- Jeffrey S. LaMarche: Researching how to increase healthy behaviors in underserved, single parent families with technology through design workshops (CU, Spring 2008)
- Jane Meyers: Designing and developing a tablet PC application to assist older adults during transitions of care monitor their medication information, schedule, and reconciliation among multiple doctors. (CU, Summer 2007-Summer 2008)
- Beenish Chaudry: Developing alternative handheld devices input for dialysis patients and continued development on the Dietary Intake Monitoring Application. Co-advised with Kay Connelly. (IU, Spring 2007-Spring 2015)
- Brita Munsinger: Researching how to increase healthy behaviors in underserved, single parent families with technology interventions. (CU, Summer 2007)
- Paul Rohwer: Developing alternative handheld devices input for dialysis patients. Co-advised with Kay Connelly. (IU, Spring 2006-Spring 2007)

Mentoring

- Gerald Pulver, Ph.D. Student, from the University of Colorado Denver Anschutz Medical Campus. Training Mr. Pulver in user centered design and shadowing techniques to evaluate a small-scale Electronic Medical Record system (Fall 2009-Fall 2010).
- Christopher Lee Schaeffbauer, B.S. Student. Training Mr. Schaeffbauer in user centered design, research, and shadowing techniques to evaluate a small-scale Electronic Medical Record system (Summer 2009-January 2010).
- Julie Maitland, visiting Ph.D. student from the University of Glasgow. Collaborated with Ms. Maitland to study the attitudes towards diet and exercise in young, underserved families (Winter 2008).

Service

Department

- **Department Chair** Summer 2020-Present
 - Department size: 51 faculty (14 non-tenure track; 37 tenure-track); 2,200 students (1900 undergraduates; 300 graduate students)
 - Oversees \$10.5 million budget
- **ProHealth Director** for Graduate Studies, Fall 2018-Summer 2020
- **Undergraduate Chair** for Informatics Division, Fall 2014-Fall 2018
- **Academic Misconduct Hearing Committee** Spring 2015- Fall 2018
- **Faculty Search Committee** AY 2017-2018, AY 2015-2016; Spring 2013 (2 committees), AY 2011-2012
- **Prototyping Lab Coordinator** Fall 2014 - Fall 2016
- **Graduate Student Recruiting committee** Summer 2014

- **Revamp the Undergraduate Curriculum** Fall 2014
- **INFO 501/502 Evaluation group** Spring 2014
- **Undergraduate Committee** AY 2013-2015
- **Liberal Arts Pathways Committee** AY 2013-2014
- **Departmental Executive Committee** AY 2010-2012
- **Faculty Advisor** for the Women in Computer Science group. (Fall 2006 - Spring 2008)
- **Faculty Advisor** Outreach Roadshow coordinated with the Colorado Coalition for Gender and Information Technology (Fall 2007-2009)
- **Departmental Undergraduate Committee** AY 2008-2009
- **Departmental Diversity Task Force** AY 2007-2008.
- **Working group** for University of Colorado at Boulder Digital and Social Systems Curriculum Track.
- **Working group** for University of Colorado at Boulder Computational Biology and Health Informatics Curriculum Track.
- **Department Diversity Committee** AY 2006-2007.
- Co-Created, Coordinated, and Presented *Computer Science...Beyond Programming*.

School/College

- **Luddy Alumni Board ex-officio member** Fall 2020-Present
- **Maker Space Advisory Board** Fall 2019-Present
- **Semester Symposium Organizing Lead** Fall 2014-Spring 2018
- **PhD Outreach Organizing Committee** Spring 2015-Spring 2016; Lead coordinator in Spring 2015 and 2016
- **Undergraduate Research Committee**, Summer 2015-Present
- **Human Computer Interaction Paper Review and Presentation Preparation Organizer** Spring 2015-Fall 2016
- **Hosted the IU SOIC Welcome Back Potluck** for over 70 people who support diversity in computing, Fall 2014
- **Unite! Connecting CU's Community of Women Engineers** 2011
- **CAREER Proposal Symposium** 2010 and 2011
- **High School Honors Institute Lab Open House** Summer 2007, Summer 2008, Summer 2010
- **Diversity Action Committee of the College of Engineering and Applied Science at CU-Boulder** AY 2009-2010, 2010-2011
- **CU Engineering Lactation Room Consultant** 2008

University

- **IU Mini U**, Selected to teach a session at IU Mini U where alumni come to campus during the summer to learn from faculty (Summer 2018 & 2019)
- **Bloomington Faculty Council**, Elected School Representative (2017-2019)
- **Fellowship Reviewer** for Marshall, Rhodes, Mitchell, and Churchill Fellowship Programs - Fall 2015-2016
- **Office of Undergraduate Scholars for Competitive Awards, Research and Engagement (IU Scholars CARE)** Faculty member
- **IU Strategic Planning Team in Health Sciences**, Fall 2013
- **Global Public Health Summer Institute Planning Committee**, Fall 2013
- **Gold Shirt Interviewer** Spring 2010, Spring 2011, Spring 2012
- **Wardenburg Health Center** Electronic Medical Record Collaboration, Summer 2009 - Summer 2011
- **Prehealth Advisory Committee Member** Spring 2007, Spring 2009

Research Community

- **Subcommittee Co-Chair for CHI 2020 Health Subcommittee**; Co-Chairs Madhu Reddy, Northwestern University; Maria Wolters, University of Edinburgh; and Marilyn Lennon, University of Strathclyde
- **American Medical Informatics Association Health Informatics Undergraduate Education** Working Group Committee; 2018-Present
- **American Medical Informatics Association Women in AMIA Pipeline** Subcommittee; 2017-Present
- **Editorial Review Board** - International Journal of Mobile Human Computer Interaction; 2008-Present
- **Journal of American Medical Informatics Association Special Focus Issue Guest Editorial Board** on Health informatics and health equity: improving our reach and impact; Spring 2019
- **Workshop Co-Chair for Sociotechnical Interventions for Health Disparity Reduction: A Research Agenda** funded by the Computing Research Association (CRA) Computing Community Consortia (CCC); Co-Chair Tiffany Veinot, University of Michigan; Spring 2018
- **CHI Stories Co-Chair** with Nazanin Andalibi, University of Michigan; Naveen Bagalkot, Srishti Institute of Art, Design, & Technology, Bangalore; and Wendy Moncur, University of Dundee
- **Subcommittee Co-Chair for CHI 2019 Health Subcommittee**; Co-Chair Sean Munson, University of Washington
- **Subcommittee Co-Chair for CHI 2018 Health, Accessibility & Aging Subcommittee**; Co-Chair Sean Munson, University of Washington

- **Papers co-chair for iConference 2015** with Madhu Reddy, Northwestern University
- **Co-Chair for the Consumer Health Informatics in the Midwest Meetings** in 2014, 2018
- **Pervasive Healthcare Doctoral Consortium Chair**, 2014-2016
- **Local AMIA Chapter Representative** Fall 2014
- **Vice Chair for the 2013 AMIA Annual Symposium**
- **Local AMIA Chapter Representative** AY 2013-2014
- **Workshop on Interactive Systems in Healthcare (WISH)** 2012 & 2016 Workshop Co-Chair
- **Doctoral Consortium Panelist** for Pervasive Healthcare 2012 & 2011
- **Faculty Member for CHI 2012 Doctoral Consortium**
- **Conference Session Chair** for CHI 2012
- **Steering Committee for the Workshop on Interactive Systems in Healthcare (WISH)** 2011, 2013, 2014
- **AMIA Doctoral Consortium Faculty Mentor** 2011, 2013, 2014
- **Conference Session Chair** for Pervasive Healthcare 2009-2012, 2014, 2015
- **Workshop Co-Chair** for UbiComp 2011
- **Special Interest Group (SIG) Liaison** with North and South America for ACM SIG Health Informatics (SIGHIT); November 2011 - May 2011
- **Advisory Board** for Pervasive Healthcare 2011
- **Program Committees:**
 - CHI: 2017 Program Committee (Health, Accessibility and Aging), 2013 (Specific Application Areas), 2012 (Specific Application Areas)
 - Pervasive Healthcare: 2012-2013; 2015-2017
 - UbiComp 2016
 - AMIA Fall Symposium Scientific Program Committee 2016 & 2011 (**Distinguished Paper Reviewer - 13 selected**)
 - Designing Interactive Systems (DIS) 2014 (Associate Chair)
 - ACM 1st International Health Informatics Symposium (2010)
 - Grace Hopper Celebration of Women in Computing 2009 Panels and Workshops Committee
 - Design with Care (DwC) 2008
 - Ubiquitous Systems Evaluation 2008
 - USAB 2008 - Usability & HCI for Education and Work
 - eTELEMED 2009
 - 2nd International Conference on Pervasive Computing Technologies for Healthcare 2007
 - 3rd Symposium on Medical Usability and HCI for Health Care 2007

- Bring IT On! 2006
- WWW@10: The Dream and the Reality (2004)
- **Program Chair** for Pervasive Healthcare 2010.
- **Co-Editor** - Special Edition: Advances in Evaluating Mobile and Ubiquitous Systems, International Journal of Mobile Human Computer Interaction; April-June 2009
- **Workshop Chair** for MobiSys 2008.
- **Refereed for Conferences:** CHI 2008, 2009, 2011, 2014-2016 Long Papers; CHI 2008 Short Papers; CHI Work-in-Progress 2006, 2009; Conference on Pervasive Computing Technologies in Healthcare 2009, 2011; UbiComp 2009; USAB 2008; USE 2008; SIGCSE 2008, 2009; SIGCSE 2007, 2008 Workshops; CSCW 2008; UbiComp 2008; WWW@10
- **Reviewed journals for:** Nature Project Journals Digital Medicine, Communications of the ACM, Journal of the American Medical Informatics Association (JAMIA), ACM MONET-Pervasive Healthcare, ACM Transactions of Computing Education, Personal and Ubiquitous Computing Special Issue
- **National Institutes of Health: National Institute of Biomedical Imaging and Bioengineering** review panels; Spring 2009, June 2009, July 2009
- **National Science Foundation** review panels
- **National Library of Medicine** review panel; August 2010 (2 panels)
- **Reviewed book chapters for:** *Handbook of Research on User Interface Design and Evaluation for Mobile Technology, Informatics of Diabetes, Ways of Knowing*
- **ACM SIGCSE Research Competition Judge** 2007 and 2009.

Computing Diversity

- **Advisory Board Member** for Reset: Re-enter STEM through Emerging Technology conference; 2019-2020.
- **Explore Circuitry** Developed materials and training for 4 sessions on paper and squishy circuits taught by undergraduate researchers to approximately 150 1st and 2nd graders attending the public school summer school; Summer 2019.
- **Hello Research!** Co-Organizer with Suzanne Menzel and David Crandall, Fall 2018. Co-organized a three-day intensive research experience for almost 100 undergraduate women who participated in 12 research projects taught by 25 faculty and graduate student mentors from 5 different institutions.
- **Girl Scouts of America and School of Informatics and Computing E-Textile Summer Camp (2015-2018)** - Developed and taught the camp to middle schoolers - 28 contact hours each summer.
- **ACM-W Council (AWC)** 2008-2015
- **ACM-W Newsletter Co-Editor** 2010-2014

- **Planning Committee** for SIGCSE/CSTA K-12 Roadshow at Google (Mountain View Campus) 2007-2008
- **Academic Advisory Committee** for Grace Hopper Celebration of Women in Computing 2008.
- **ACM-W Working Committee Member** 2007 & 2008.
- **Birds of a Feather Co-Chair** for Grace Hopper Celebration of Women in Computing 2007.
- **Indiana University Women in Computing** founding member; *Just Be* co-creator, organizer, and presenter (presented to approximately 300 middle and high school students).

National

- **Computer Research Association Computing Community Consortium** (CRA CCC) Council Member (July 2019-present)
- **Invited Workshop Participant**
 - Computing Community Consortium Computational Support for Substance Use Disorder Prevention, Detection, Treatment, and Recovery, Washington, DC, USA, 14-15 November 2019.
 - 2017 American Medical Informatics Association Annual Health Policy Invitational Meeting, Washington, DC, USA 27-28 September, 2017.
 - Consortium for the Science of Socio-Technical Systems (CSST), Charleston, SC, USA, 23-26 July 2017.
 - NSF Smart and Connected Health Visioning Meeting, Boston, MA, USA 20-21 March 2017.
 - Computing Community Consortium (CCC) Visioning Workshop on Discovery and Innovation in Smart Health, Washington, DC, USA, 5-6 December 2016.
 - The White House Frontiers Conference, Pittsburg, Pennsylvania, USA, 13 October 2016.
 - Computing and Health: New Opportunities and Directions. Organized by the Computing Community Consortium in close partnership with the National Science Foundation (NSF) and National Institutes of Health (NIH), October 2012.
 - NSF Workshop: Research Challenges in Measuring Data for Population Health to enable Predictive Modeling for Improving Healthcare, January 2012
 - Computing at the Margins, Georgia Tech, February 2010
 - Discovery and Innovation in Health IT. Sponsored by Office of the National Coordinator for Health Information Technology, the National Institute of Standards and Technology, the National Library of Medicine, the Agency for Healthcare Research and Quality, the National Science Foundation, the Computing Community Consortium, and the American Medical Informatics Association, 29-30 October 2009
 - Agency for Healthcare Research and Quality (AHRQ) Workshop - Building Bridges: Consumer Needs and the Design of Health Information Technology, 27-28 July 2009
- **College Board AP Computer Science Principles Advisory Group** member 2009-2010.

International Visiting Scholar Hosting

- Miguel Jimeno Paba, Universidad del Norte in Barranquilla, Colombia; December 2011-January 2012
- JC Chun, Kyonggi University, South Korea; January 2009 - Summer 2011
- Julie Maitland, University of Glasgow; Winter 2008

Consulting

- National Center for Women & Information Technology Extension Services (Lecia Barker and Joanne McGrath Cohoon)
- CoCap Group (Gordon Van Dusen and Marc Silverman)

Other

- Participant in Dr. Cecilia Pang's *It has not Been Easy* documentary; 2008
- Interviewed for the Computing Educators Oral History Project; October 2008

Media Interviews and Write-Ups of Work

Does not include blog articles at this time.

- *NBC News MACH*, These 'cyborg' plants can sense motion and move on command, By Jaclyn Jeffrey-Wilensky, 19 June 2019
- *National Public Radio (NPR) Phoenix*, New Senior Home Includes Sensors To Track Movement, Catch Health Problems, By Annika Cline, 11 May 2018
- *PBS Friday Zone, Zap!* (14 April 2017, Episode 1718, 12:02 mark, paper circuits), *Smart Stuff* (13 March 2017, Episode 1714; 16:07 mark, electronic textiles)
- *Herald Times*, IU students still figuring out new engineering major, By Michael Reschke, 16 December 2016
- *Bloom*, Middle-School Girls Learn Technology and Crafts at E-Textile Summer Camp, By Karen Howe Fernandez, December 2015/January 2016
- *CNN*, Can exercise monitors reduce obesity rates? By Ralitsa Vassileva, 4 June 2014
- *American Society for Engineering Education Prism*, September 2011
- *Denver Westword*, December 2010
- *Connected World*, November 2010
- Colorado Higher Ed News, 14 August 2009
- Denver Post, People on the Move, 12 August 2009
- Boulder Daily Camera, CU News, 10 August 2009