

Sarah Fox

Human-Computer Interaction Institute
Carnegie Mellon University
Pittsburgh, PA 15213

sarahfox@cmu.edu
sarahfox.info

ACADEMIC APPOINTMENTS

2019 - present

Carnegie Mellon University, Pittsburgh, Pa.
Human-Computer Interaction Institute
President's Postdoctoral Fellow (2019-20)
Assistant Professor (starting Fall 2020)

2018 - 2019

University of California, San Diego, Ca.
Department of Communication and The Design Lab
Postdoctoral Scholar

EDUCATION

2013 - 2018

University of Washington, Ph.D. and M.S. in Human Centered Design & Engineering
Committee: Daniela Rosner (Chair), Carl DiSalvo, Tad Hirsch, Charlotte Lee, David Ribes

2011 - 2013

Georgia Institute of Technology, M.S. in Digital Media

2005 - 2009

University of Georgia, B.A.(s) in Film Studies, English, and Telecommunication Arts

SELECTED PROFESSIONAL EXPERIENCE

Summer 2016

Google, Mountain View, Ca.
User Experience Research Intern

Summer 2014

Microsoft Research, Cambridge, UK.
Research Intern

Summer 2013

Intel Labs, Santa Clara, Ca.
User Experience Design Intern

PUBLICATIONS

Journal articles

Eschler, J., Menking, A., **Fox, S.**, Backonja, U. "Defining menstrual literacy with the aim of evaluating mobile menstrual tracking applications." To appear in *Computers, Informatics, Nursing*.

Fox, S., Lim, C., Rosner, D., Hirsch, T. 2020. "Accounting for Design Activism: On the Positionality and Politics of Designerly Intervention." *Design Issues* Vol. 36(1).

Pierce, J., **Fox, S.**,* Merrill, N., Wong, R. 2018. "Differential Vulnerabilities and a Diversity of Tactics: What Toolkits Teach Us about Cybersecurity." *Proceedings of the ACM on Human-Computer Interaction* Vol. 2(CSCW): Article No. 139.

*All authors contributed equally. Random number generator was used to order names.

Porter, J., Sobel, K., **Fox, S.**, Bennett, C., Kientz, J. 2018. Filtered Out: Disability Disclosure Practices in Online Dating Communities. *Proceedings of the ACM on Human-Computer Interaction* Vol. 1(CSCW): Article No. 87.

Fox, S., Rosner, D. 2016. "Inversions of Design: Examining the limits of human-centered perspectives in a feminist design workshop." *Journal of Peer Production*, Issue #8: Feminism and (un)hacking.

Rosner, D., **Fox, S.** 2016. "Legacies of craft and the centrality of failure in a mother-operated hackerspace." *New Media and Society* Vol. 18(4), 558-580.

Book chapters

Fox, S., Epstein, D., "Monitoring Menses: Design Based Investigations of Menstrual Tracking Applications," To appear in the *Critical Menstrual Studies Handbook*, Ed. Bobel, C., Fans, B., Hasson, K., Kisling, E., Roberts, T., Winkler, I., Palgrave Macmillan.

Fox, S. 2018. "Reconfiguring Culture/Technology: Feminist Approaches to Design and Engineering." *The Field Guide to Hacking*, Ed. Poon, M. Design Trust: Hong Kong.

Burek, A., Foster, E.A., **Fox, S.**, Rosner, D. 2017. "Feminist Hackerspaces: Hacking Culture, Not Devices (the zine!)." *Making Things and Drawing Boundaries: Experiments in the Digital Humanities*. Ed. Sayers, J. University of Minnesota Press.

Peer-reviewed conference papers

Fox, S., Howell, N., Yong, R., Spektor, F. "Vivewell: Speculating Near-Future Menstrual Tracking through Current Data Practices." In the *Proceedings of the ACM Designing Interactive Systems Conference 2019 (DIS'19)*, San Diego, California.

Fox, S., Sobel, K., Rosner, D. "Managerial Visions: Stories of upgrading and maintaining the public restroom with IoT." In the *Proceedings of the ACM Conference on Human Factors in Computing Systems 2019 (CHI'19)*, Glasgow, UK.

Best Paper Award.

Fox, S., Silva, R., Rosner, D. 2018. "Beyond the Prototype: Maintenance, Collective Responsibility, and Public IoT." In the *Proceedings of the ACM Designing Interactive Systems Conference 2018 (DIS'18)*, Hong Kong.

Best Paper Honorable Mention Award.

Pierce, J., **Fox, S.**, Merrill, N., Wong, R. 2018. "An Interface without A User: An Exploratory Design Study of Online Privacy Policies and Digital Legalese." In the *Proceedings of the ACM Designing Interactive Systems Conference 2018 (DIS'18)*, Hong Kong.

Fox, S., Lampe, M., Rosner, D. 2018. "Parody in Place: Engaging Socio-spatial Difference in Data-Driven Maps through Imitation." In the *Proceedings of the ACM Conference on Human Factors in Computing Systems 2018 (CHI'18)*, Montreal, Canada.

Woodruff, A., **Fox, S.**, Rousso-Schindler, S., Warshaw, J. 2018. "Public Perception of Algorithmic Fairness." In the *Proceedings of the ACM Conference on Human Factors in Computing Systems 2018 (CHI'18)*, Montreal, Canada.

Dombrowski, L., Harmon, E., **Fox, S.** 2016. Social Justice-Oriented Interaction Design: Outlining Key Design Strategies and Commitments. In the *Proceedings of the ACM Designing Interactive Systems Conference 2016 (DIS'16)*, Brisbane, Australia.
Best Paper Award.

Rosner, D., Morris, M., Duncan, A., **Fox, S.**, Kitner, K., Agrawal, A. 2016. Designing for Movement in Public Life with Itinerant Probes. In the *Proceedings of the ACM Designing Interactive Systems Conference 2016 (DIS'16)*, Brisbane, Australia.

Fox, S., Rosner, D. 2016. Continuing the Dialogue: Bringing Research Accounts Back into the Field. In the *Proceedings of the ACM Conference on Human Factors in Computing Systems 2016 (CHI'16)*, San Jose, California.
Best Paper Honorable Mention Award.

Fox, S., Ulgado, R., Rosner, D. 2015. Hacking Culture, Not Devices: Access and Recognition in Feminist Hackerspaces. In the *Proceedings of the ACM Conference on Computer Supported Cooperative Work 2015 (CSCW'15)*, Vancouver, Canada.

Le Dantec, C., **Fox, S.** 2015. Strangers at the Gate: Gaining Access, Building Rapport, and Co-Constructing Community-Based Research. In the *Proceedings of the ACM Conference on Computer Supported Cooperative Work 2015 (CSCW'15)*, Vancouver, Canada. **Best Paper Award.**

Fox, S., Le Dantec, C. 2014. Community Historians: Scaffolding Community Engagement through Culture and Heritage. In the *Proceedings of the ACM Designing Interactive Systems Conference 2014 (DIS'14)*, Vancouver, Canada.

Asad, M., **Fox, S.**, Le Dantec, C. 2014. Speculative Activism Technologies. In the *Proceedings of iConference 2014*, Berlin, Germany.

Magazine articles

Shorey, S., **Fox, S.**, Dew, K. "Glimmers and Half Built Projects." *interactions* 24.6 (2017): 78-81.

Fox, S., and Rosner, D. "Extensions from the 'field': Exploring alternative methods of research communication." *interactions* 23.4 (2016): 68-71.

Position papers

Fox, S., Menking, A. 2017. Menstrual Extraction: Self-study and control in the age of the period app. For the workshop "Hacking Women's Health," *CHI 2017*, Denver, CO.

Fox, S. 2016. Commentary for alt.chi paper: Resistance is Fertile: Design Fictions in Dystopian Worlds in *Extended Abstracts CHI 2016*, San Jose, CA.

Rosner, D., Ames, M., **Fox, S.** 2016. What Happened to Craft?: Surfacing Alternate Histories of Digital Fabrication and Community in the Maker Movement. For the workshop “Fabrication & HCI: Hobbyist Making, Industrial Production, and Beyond,” *CHI 2016*, San Jose, CA.

Rosner, D., **Fox, S.** 2015. Interventions, Responses, and Extensions. For the workshop “Shifting Borderlands of Technoscience: Tracing Trajectories of Critical Practice,” *Critical Alternatives, Aarhus 2015*, Aarhus, Denmark.

Fox, S. 2015. Feminist Design Workshops: Generating Design Futures in Feminist Hackerspaces. For the workshop “Feminism and Feminist Approaches to Social Computing,” *CSCW 2015*, Vancouver, Canada.

Ulgado, R., **Fox, S.** 2014. Critical Design in Feminist Hackerspaces. For the workshop “Socially Engaged Arts Practice in HCI,” *CHI 2014*, Toronto, Canada.

Invited talks

Back, J., Branham, S., Fox, S., Su, N. “Designing Change and Changing Design: Balancing the Tension Between the Values of Designers and Pressures of Capitalism,” Panel at the *ACM Conference on Designing Interactive Systems 2019 (DIS 2019)*, San Diego, CA.

Fox, S. 2019. “Managerial Visions.” Science Studies Colloquium, University of California, San Diego.

Fox, S. 2019. “Complicating the Smart City: Tools to open up the design of networked sensing to those who work, dwell and govern the city.” Mozilla, Berlin, Germany.

Dillahunt, T., Fox, S., Hirsch, T., Sengers, P., Yoo, D. 2018. “Designing for Social Change.” Panel at the *ACM Conference on Designing Interactive Systems 2018 (DIS 2018)*, Hong Kong.

Fox, S. 2018. “Managerial Visions.” Berkeley Institute of Design Seminar Series, University of California, Berkeley.

Fox, S. 2018. “Looking Around, Rather than Ahead: Design at the Periphery of Contemporary High Tech Development.” School of Information Dean's Lecture, University of California, Berkeley.

Fox, S. 2018. “Looking Around, Rather than Ahead: Design at the Periphery of Contemporary High Tech Development.” Information Science Colloquium, Cornell University.

Fox, S., Tran, B., Choi, L. 2017. “The Catalogue of Partial Things and Other Pericapitalist Endeavors.” Intel Labs, Hillsboro, OR.

Fox, S. 2017. “Maintaining the Menstruating Body: Collective care, ‘self-governance’ and stronghold legacies of maintenance regimes.” For the track “Sensing the Liveliness of Things and the Fragility of Life: Bringing Care and Maintenance Together,” *4S Annual Meeting 2017*, Boston, MA.

Fox, S. 2016. "Casting a Feminist Eye on Public Infrastructure." For the track "Feminist Technoscience Studies in Unexpected Places: (Intra)Activism and Social Justice," 4S/ EASST Annual Meeting 2016, Barcelona, Spain.

Fox, S. 2016. "Digital interventions on Cartographic Visibility: Reflecting on and circulating socio-spatial differences through digital systems." Data Science Institute at the University of Washington, Seattle, Wa.

Fox, S. 2016. "Feminist Hacking." *signal/noise: A FemTechNet conference on Feminist Pedagogy, Technology, Transdisciplinarity*, Ann Arbor, MI.

Fox, S. 2015. "Hacking Culture, Not Devices: Access & Recognition in Feminist Hackerspaces." Open Lab (formerly Culture Lab) at Newcastle University, Newcastle, United Kingdom.

Fox, S. 2015, "Feminist Design in Feminist Hackerspaces." *'I Love To You': Critical Wikipedia Edit-a-thon*, University of Washington, Seattle, Wa.

Fox, S. 2014, Feminist Hackerspaces. *National Center for Women & Information Technology Summit on Women and IT*, Newport Beach, Ca.

Fox, S. 2009, *Rock Reporting in the Digital Age* (part of the exhibit *Free Press in Free Fall*). Athens Institute for Contemporary Art, Athens, Ga.

*Workshop, Special
Interest Group, and
Panel Proposals*

Feinberg, M., **Fox, S.**, Hardy, J., Steinhardt, S., Vaghela, P. 2019. At the Intersection of Culture and Method: Designing Feminist Action. Workshop at the *ACM Conference on Designing Interactive Systems 2019* (DIS 2019). San Diego, California.

Talhok, R., Morrissey, K., **Fox, S.**, Pantidi, N., Simpson, E., Michie, L., Balaam, M. 2018. Human Computer Interaction & Health Activism. Special Interest Group at the *ACM Conference on Human Factors in Computing Systems 2018* (CHI 2018), Montreal, Canada.

Fox, S. 2017. Maintenance and the Menstruating Body: A design workshop toward feminist interventions on public infrastructure. Workshop at the *Society for Menstrual Cycle Research Conference 2017*. Atlanta, Georgia.

Fox, S., Dimond, J., Irani, L., Hirsch, T., Muller, M., Bardzell, S. 2017. Social Justice and Design: Power and oppression in collaborative systems. Panel at the *ACM Conference on Computer Supported Cooperative Work 2017* (CSCW 2017). Portland, Oregon.

Fox, S., Menking, A., Steinhardt, S. Hoffman, A. L., Bardzell, S. 2017. Imagining Intersectional Futures: Feminist approaches in CSCW. Workshop at the *ACM Conference on Computer Supported Cooperative Work 2017* (CSCW 2017). Portland, Oregon.

Fox, S., Asad, M., Lo, K., Dimond, J., Dombrowski, L., Bardzell, S. 2016. Exploring Social Justice, Design, and HCI. Workshop at the *ACM Conference on Human Factors in Computing Systems 2016 (CHI 2016)*, San Jose, California.

Fox, S., Kitner, K., Morris, M., and Rosner, D. 2015. Inviting Participation through IoT: Experiments and Performances in Public Spaces. Workshop at the fifth decennial *Aarhus conference, Critical Alternatives*, Aarhus, Denmark.

Allied Media Conference 2013, *Speculative Design of Technology for Activism*, with Mariam Asad. Workshop facilitated the co-design of speculative technologies for activism. Detroit, Michigan.

Patents

Zafiroglu, Alexandra C., Jennifer A. Healey, Juan I. Correa, Maria Paula Saba Dos Reis, Alejandro Abreu, Victoria S. Fang, Dalila Szostak, and Sarah E. Fox. Orchestrating autonomous movements of parked vehicles to optimize parking efficiency. US9449512 B2, filed March 26, 2014, and issued September 20, 2016.

Szostak, Dalila, Jose K. Sia JR, Victoria S. Fang, Alexandra C. Zafiroglu, Jennifer A. Healey, Sarah E. Fox, Juan I. Correa, Alejandro Abreu, and Maria Paula Saba Dos Reis. Systems and methods for augmented reality in a head-up display. US20150175068 A1, filed December 20, 2013, and issued June 25, 2015.

TEACHING

Primary Instructor

Advanced Topics: Design Research Methods (HCDE 548), co-taught with Daniela Rosner
Department of Human Centered Design & Engineering (UW)
Spring 2017

Directed Research: Feminist Theory & Critical Disability Studies (HCDE 496), co-taught with Cynthia Bennett
Department of Human Centered Design & Engineering (UW)
Spring 2016

Directed Research: Design Studies (HCDE 496)
Department of Human Centered Design & Engineering (UW)
Winter 2016

Teaching Assistant

Explorations in Human Centered Design (HCDE 210), Professor Jennifer Turns, Andrew Davidson
Department of Human Centered Design & Engineering (UW)
Fall 2016, Winter 2017

Visual Communication (HCDE 508), Professor Daniela Rosner
Department of Human Centered Design & Engineering (UW)
Spring 2015

Directed Research: Design as Inquiry (HCDE 496), Professor Daniela Rosner
Department of Human Centered Design & Engineering (UW)
Winter 2015-Fall 2015, Winter 2016, Spring 2017, Fall 2017-Spring 2018

Guest Lecturer

Critical Design Practice (undergraduate), Department of Communication, University of California, San Diego, Spring 2019, Instructor: Lilly Irani

Politics of Bodies: Disability Studies (undergraduate), Department of Communication, University of California, San Diego, Winter 2019, Instructor: Louise Hickman

Critical Making (undergraduate + graduate), Jacobs Institute for Design Innovation, UC Berkeley, Spring 2018, Instructor: Eric Paulos

Research Design (graduate), School of Information, University of Washington, Fall 2017, Instructor: Alexis Hiniker

Design & Management of Complex Information & Communication Systems (graduate), Department of Human Centered Design & Engineering, University of Washington, Fall 2017, Instructor: Mark Haselkorn and Robin Mays

Explorations in Human Centered Design (undergraduate), Department of Human Centered Design & Engineering, University of Washington, Fall 2017, Instructor: Jennifer Turns

Theoretical Foundations (graduate), Department of Human Centered Design & Engineering, University of Washington, Spring 2017, Instructor: Brook Sattler

Design Methods (undergraduate), School of Art + Art History + Design, University of Washington, Winter 2017, Instructor: Audrey Desjardins

Theoretical Foundations (graduate), Department of Human Centered Design & Engineering, University of Washington, Spring 2016, Instructor: Robert Racadio

Foundations of Human Centered Design and Engineering (undergraduate), Department of Human Centered Design & Engineering, University of Washington, Winter 2016, Instructor: Toni Ferro

DIY Science (graduate), School of Arts, Media, and Engineering, Arizona State University, Fall 2015, Instructor: Stacey Kuznetsov
Critical Practices: People Places Participation (undergraduate +graduate), Jacobs Institute for Design Innovation, UC Berkeley, Fall 2015, Instructors: Eric Paulos and Jill Miller

RESEARCH ACTIVITIES

Organizing

University of Washington ACM SIGCHI Student Chapter, 2014-2017 *Design and Technology Lecture Series*. Lecture series featuring graduate students and junior faculty in HCI, Design, and related fields.

Seattle Design Festival 2015, *Equity through Design Practice*. A panel discussion about various approaches that do and could exist to support critical engagement with equity in the field of design.

Georgia Tech, 2012-2014, *Nokia Invited Lecture Series on Mobile and Future Technologies*, with Tom Jenkins. Lecture series featured graduate students in HCI and related fields.

Invited Workshops & Doctoral Consortia

Computing Research Association, Early Career Workshop 2018

DIS 2018 Doctoral Consortium, Hong Kong, China, June 2018

CSCW 2017 Doctoral Colloquium, Portland, Or., February 2017
(Post-)graduate STS studies “by other means” workshop, 4S/EASST conference, Barcelona, Spain, August 2016

Science and Technology Studies + Design Workshop, Center for Science, Technology, Medicine and Society, University of California, Berkeley, May 2016

Computing Research Association-Women, Grad Cohort Workshop 2016

Creativity & Cognition 2015 Graduate Student Symposium, Glasgow, UK, June 2015

SERVICE

Conference Organizing

Program Committee, ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) 2019

Program Committee (Associate Papers Chair), ACM Conference on Human Factors in Computing Systems (CHI) 2019-2020

Program Committee (Associate Papers Chair), ACM Conference on Designing Interactive Systems (DIS) 2017-2020

Program Committee, EUSSET European Conference on Computer-Supported Cooperative Work (ECSCW) 2019

Program Committee, ACM Conference on Tangible, Embodied and Embedded Interaction (TEI) 2019

Program Committee, Design Educators Research Conference (Decipher) 2018

Workshop Program Committee, ACM Conference on Human Factors in Computing Systems (CHI) 2017

Late Breaking Work Program Committee, ACM Conference on Human Factors in Computing Systems (CHI) 2017

Peer Reviewing

Austrian Science Fund (FWF)

ACM Conference on Human Factors in Computing Systems (CHI) 2013-2019

ACM Computer Supported Collaborative Work (CSCW) 2015-2018

ACM Designing Interactive Systems (DIS) 2014, 2016-2019

ACM Participatory Design Conference (PDC) 2014

ACM Creativity & Cognition (C&C) 2015, 2017

ACM Tangible, Embedded and Embodied Interaction (TEI) 2016, 2019

ACM MobileHCI 2018

ACM Group 2020

EUSSET European Conference on Computer-Supported Cooperative Work 2019

Design Issues

ACM Transactions on Computer-Human Interaction (TOCHI)

Computer Supported Cooperative Work (CSCW) Journal

Journal of Peer Production

Interaction Design and Architecture(s) Journal (IxD&A)

International Journal of Human-Computer Studies

Student Volunteering

Society for Social Studies of Science (4S) Annual Meeting 2017, Boston, MA.

ACM Computer Supported Collaborative Work (CSCW) 2016 Program Committee Meeting, Copenhagen, Denmark

ACM Conference on Human Factors in Computing Systems (CHI) 2013, Paris, France

Founder & Chair

University of Washington Association for Computing Machinery SIGCHI

Student Chapter, 2014-2018

SCHOLARSHIPS, GRANTS & AWARDS

2019

CHI Best Paper Award, “Managerial Visions: Stories of upgrading and maintaining the public restroom with IoT” CHI’19

Center for Technology, Society & Policy and Center for Long-Term Cybersecurity Joint Fellow, University of California, Berkeley, for “Engaging Expert Stakeholders about the Future of Menstrual Biosensing Technology,” PI: Noura Howell, Co-PIs: Sarah Fox, Richmond Wong, Franchesca Spektor

- Underexposed Design Fellow**, Simply Secure
Support to participate in a week-long design residency in Berlin, Germany for designers, technologists, researchers, policy experts whose work focuses on topics of ethics and technology, responsible artificial intelligence, and internet freedom.
- 2018 **DIS Best Paper Honorable Mention Award**, “Beyond the Prototype: Maintenance, Collective Responsibility, and Public IoT” DIS’18
- Graduate Innovation Award**, Human Centered Design & Engineering
Recognizes one student who has demonstrated excellence through the design and development of novel artifacts or practices that exemplify human-centered design.
- Center for Technology, Society & Policy and Center for Long-Term Cybersecurity Joint Fellow**, University of California, Berkeley, for “Menstrual Biosensing Survival Guide,” PI: Noura Howell, Co-PIs: Sarah Fox and Richmond Wong
- 2017 **Center for Long-Term Cybersecurity Seed Grant**, University of California, Berkeley, for “Toolkits for/of the Future: A Human-Centered Computing and Design Research Approach,” PI: James Pierce, Co-PIs: Sarah Fox, Nick Merrill, and Richmond Wong
- Human Computer Interaction Consortium**
Invitation and funding to attend summer research institute
- Graduate Research Award**, University of Washington
The graduate student research award recognizes excellence in scholarship, evaluated through publications, external recognition, invited presentations, and innovation (recognizing one student per department).
- 2016 **ACM Computing Reviews’ 21st Annual Best of Computing: Notable Books and Articles**, for “Social Justice-Oriented Interaction Design: Outlining Key Design Strategies and Commitments,” *DIS’16*
- UW HCDE Departmental Funding** for the UW SIGCHI Lecture Series
\$1050 funding to host invited lectures by emerging HCI and Design Research scholars
- DIS Best Paper Award**, “Social Justice-Oriented Interaction Design: Outlining Key Design Strategies and Commitments,” *DIS’16*
- CHI Best Paper Honorable Mention Award**, “Continuing the Dialogue: Bringing Research Accounts Back into the Field,” *CHI’16*
- 2015 **CSCW Best Paper Award**, “Strangers at the Gate: Gaining Access, Building Rapport, and Co-Constructing Community-Based Research,” *CSCW ’15*
- 2014 **Travel Award**, Graduate School Fund for Excellence and Innovation, UW
\$150 travel funding to present at research conference
- Travel Award**, Human Centered Design & Engineering, UW
\$300 travel funding to attend research conference

2013

Graduate Fellowship, University of Washington
\$3,000 award upon entrance into the HCDE doctoral program

Travel Award, Digital Media Department, Georgia Tech
\$500 travel funding to attend research conference

Travel Award, GVI Center, Georgia Tech
\$500 travel funding to attend research conference

2012-2013

Intel Science and Technology Center for Social Computing Graduate Research Award, Intel Corporation

2H12 Nokia Global University Funding, Nokia Corporation
\$3,200 grant to fund an invited lecture series for graduate students in HCI and related fields

2011

Segal Education Award, The Corporation for National and Community Service
\$5,350.00 award received upon successful completion of AmeriCorps term of service

2005-2009

Hope Scholar, University of Georgia
Full tuition scholarship, fee waivers, and book stipend for 4 years

Presidential Scholar, University of Georgia