

Curriculum Vitae

Batya Friedman

Co-Director, Value Sensitive Design Lab
Co-Director, UW Tech Policy Lab
Professor, The Information School
Adjunct Professor, Allen School of Computer Science & Engineering
Adjunct Professor, Department of Human Centered Design and Engineering
Faculty Associate, UW Center for Human Rights

Last Updated: October 1, 2018

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1 Areas of Specialization

1.1 Value Sensitive Design

Design theory and methods to account for human values throughout the technical design process. Analysis, design, and development of information systems and other technologies to support human values such as trust, privacy, human dignity, sustainability, public participation, freedom of expression, community, calmness, and informed consent. Includes the development of over 17 unique design methods and 4 toolkits.

1.2 Multi-lifespan Design

Multi-lifespan design investigates the roles, opportunities, and design methods for developing and evolving information and other systems to help construct longer-term solutions to significant real-world problems.

1.3 Social-Cognitive and Cultural Aspects of Information Systems

Conceptions of information systems; cross-cultural and cross-regional analyses; cultural adaptation to technological innovation.

1.4 Human-Computer Interaction

Design theory; design methods; interaction design; contextual analyses of computer use; computer use in organizations; children and information systems.

2 Education

University of California, Berkeley

Ph.D. in the Group in Science and Mathematics Education, 1988

B.A. in Computer Science with Distinction in General Scholarship, 1979

3 Positions

University of Washington, Seattle, WA

Co-Director, Value Sensitive Design Lab, 1999 – present

Co-Director, UW Tech Policy Lab, 2013 – present

Professor, The Information School, 2004 – present (Associate Professor, 1999 – 2004)

Adjunct Professor, Allen School of Computer Science & Engineering, 2004 – present (Adjunct Associate Professor, 1999 – 2004)

Adjunct Professor, Department of Human Centered Design and Engineering, 2009 – present

Faculty Associate, UW Center for Human Rights, 2010 – present

Affiliate, Intel Research Seattle, 2004 – 2011

Affiliate, Center for Mind, Brain, and Learning, 2001 – 2004

Visiting Scholar, Center for the Study of Language and Information (CSLI), Stanford University (on sabbatical leave from UW), 1999 – 2000

The Mina Institute, Covelo, CA

The Mina Institute seeks -- from an ethical perspective -- to sustain our relationship with the natural world while developing our technological capabilities.

Co-Director, 1995 – 2011

Colby College, Waterville, ME

Associate Professor, Department of Mathematics and Computer Science, 1996 – 1999

Associate Chair, Computer Science Program, Department of Mathematics and Computer Science, 1998

Clare Boothe Luce Assistant Professor, Department of Mathematics and Computer Science, 1991 – 1996

Visiting Scholar at the Center for the Study of Language and Information (CSLI), Stanford University, August, 1996 and May 1997

Mills College, Oakland, CA

Assistant Professor, Department of Mathematics and Computer Science, 1989 – 1991

Director, Interdisciplinary Computer Science Masters Program, Department of Mathematics and Computer Science, 1989 – 1991

Visiting Assistant Professor, Department of Mathematics and Computer Science, 1988 – 1989

On leave, 1990 – 1991

The Learning Company, Menlo Park, CA

Software Designer, 1984. Responsibilities included: (1) design of interactive tutorials; (2) design of support documentation; and (3) field testing and formative evaluation of educational software.

The Lawrence Hall of Science, University of California, Berkeley, CA

Curriculum Specialist in Mathematics and Computer Education, 1980 – 1983

4 Honors and Awards

1. Honorable Mention Pictorial, DIS 2018 (Logler et al.).
2. ACM SIGCHI Social Impact Award 2012.
3. University Faculty Lecturer, University of Washington, 2012-2013.
4. Best Paper Award Nominee CHI 2012 (Friedman et al.).
5. Best Research Paper Award dg.o 2011 (Munson et al.).
6. Multi-disciplinary Privacy Paper Award 2010 (Czeskis et al.).
7. Multi-disciplinary Privacy Paper Award 2010 Honorable Mention (Denning et al.).
8. Special Recognition, CHI Reviewer, 2004, 2005.
9. Best Paper Award, Organizational Systems Track, HCIS 2002 (Friedman et al.).

10. Listed with TAP: ACM list of notable female computer scientists, 1997.
11. Division of Natural Sciences Research Grant, Colby College, 1993 (\$1675), 1995 (\$1000), 1996 (\$2482), 1997 (\$2205).
12. Nominated for Presidential Young Investigator Award, NSF, 1991.
13. Faculty Development Grant, Mills College, 1991.
14. Chancellor's Patent Fund Award for Dissertation Research, University of California, Berkeley, 1985.
15. Regents Graduate Fellowship, University of California, Berkeley, 1985.
16. Graduate Opportunity Fellowship, University of California, Berkeley, 1984.
17. ARCS Scholarship (Achievement Rewards for College Scientists), 1983.
18. Learning Computer Software Award, 1982.
19. Phi Beta Kappa (Elected in Junior Year), University of California, Berkeley, 1978.
20. Honor Society, University of California, Berkeley, 1975-1979.
21. National Merit Scholar, 1975.

5 External Grants and Other Funding

1. Pierre and Pamela Omidyar Fund, Silicon Valley Community Foundation. Unrestricted Gift. (\$50,000). To support the Tech Policy Lab at the University of Washington. (2018 – 2019). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Allen School of Computer Science & Engineering, University of Washington.
2. The William and Flora Hewlett Foundation. Grant. (\$200,000). To support the Tech Policy Lab at the University of Washington. (2018 – 2019). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Allen School of Computer Science & Engineering, University of Washington.
3. Microsoft Corporation. Unrestricted Gift. (\$550,000). To support the Tech Policy Lab at the University of Washington. (2018 - 2019). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Allen School of Computer Science & Engineering, University of Washington.
4. The William and Flora Hewlett Foundation. Grant. (\$200,000). To support the Tech Policy Lab at the University of Washington. (2017 – 2018). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Allen School of Computer Science & Engineering, University of Washington.
5. MacArthur Foundation. Grant (\$1,000,000). To support the Tech Policy Lab at the University of Washington, including explorations into tech policy for AI. (2017 - 2020). Friedman, B. (Co-PI). With Ryan Calo (PI), School of Law, and Tadayoshi Kohno (Co-PI), Allen School of Computer Science & Engineering, University of Washington.
6. Microsoft Corporation. Unrestricted Gift. (\$550,000). To support the Tech Policy Lab at the University of Washington. (2017 - 2018). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Allen School of Computer Science & Engineering, University of Washington.
7. MacArthur Foundation. Grant (\$250,000). Plus \$150,000 matching funds from the UW Tech Policy Lab. *Internet of Things and the Challenge of Diverse and Expansive Stakeholder Groups: An IoT Platform for Surfacing Disparate Impacts on Cybersecurity, Privacy and Other Human Values*. (2016 - 2018). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (PI), Department of Computer Science & Engineering, University of Washington.
8. Microsoft Corporation. Unrestricted Gift. (\$550,000). To support the Tech Policy Lab at the University of Washington. (2016 - 2017). Friedman, B. (Co-PI). With Ryan Calo (Co-PI),

- School of Law, and Tadayoshi Kohno (Co-PI), Department of Computer Science & Engineering, University of Washington.
9. The William and Flora Hewlett Foundation. Grant. (\$500,000). To support Global Summits and on-going activities at the University of Washington Tech Policy Lab. (2016 – 2017). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Department of Computer Science & Engineering, University of Washington.
 10. The William and Flora Hewlett Foundation. Grant. (\$70,000). To support organizational effectiveness at the University of Washington Tech Policy Lab. (2016 - 2017). Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Department of Computer Science & Engineering, University of Washington.
 11. National Science Foundation. Grant IIS-1302709. (\$1,200,000). *HCC Medium: Multi-lifespan Information System Research and Design*. (2013 – 2018). Friedman, B. (PI). With Tadayoshi Kohno (Co-PI), Department of Computer Science & Engineering, University of Washington.
 12. Microsoft Corporation. Unrestricted Gift. (\$1,700,000). To establish a Tech Policy Lab at the University of Washington. (2013 - 2016) Friedman, B. (Co-PI). With Ryan Calo (Co-PI), School of Law, and Tadayoshi Kohno (Co-PI), Department of Computer Science & Engineering, University of Washington.
 13. National Science Foundation. Grant IIS-1143966. (\$300,000). *EAGER: Speaking Across Generations: An Early Investigation into Multi-lifespan Information System Design*. (2011 – 2013). Friedman, B. (PI).
 14. Washington Research Foundation. Unrestricted Gift. (\$15,050). To support commercialization of the *Envisioning Cards*. (2010). Friedman, B. (PI).
 15. National Science Foundation. Grant CNS-0905384. (\$1,115,000; UW portion \$875,000). *Collaborative Research: Mobile Personal Privacy and Security - A New Framework and Technology to Account for Human Values*. (2009 – 2012). Friedman, B. (Co-PI). With Tadayoshi Kohno (PI), Alan Borning (Co-PI), Department of Computer Science & Engineering, University of Washington, and William Maisel/Daniel Kramer (PI), Harvard Medical School.
 16. Unrestricted Gifts. To support the *Voices from the Rwanda Tribunal Project*. (2009). Friedman, B. (PI).
 - a. Young Oh (\$550)
 - b. Step One, in-kind gift of K-8 conflict resolution materials (~ \$1000)
 - c. Google, in-kind gift of 5 Android phones (\$2,000)
 17. National Science Foundation. Grant IIS-0849270. (\$51,926). *SGER: Multi-Lifespan Information System Research Initiative - The Information for an International Justice System*. (2008 – 2009). Friedman, B. (PI).
 18. Unrestricted Gifts. To support the *Voices from the Rwanda Tribunal Project*. (2008). Friedman, B. (PI). With Donald Horowitz (Chair, Advisory Board).
 - a. Seattle University School of Law (\$20,000)
 - b. The Information School, University of Washington (\$22,500)
 - c. John and Virginia Meisenbach (\$5,000)
 - d. Bridge funds, The Information School, University of Washington (\$25,000)
 - e. Bridge funds, UW Foundation (\$25,000)
 19. National Science Foundation. Grant IIS-0325035. (\$2,512,000) *ITR: Value Sensitive Design – Integrating Values into the Design of Information and Computer Systems*. (2003 – 2010). Friedman, B. (PI). With Peter H. Kahn, Jr. (Co-PI), Department of Psychology, University of Washington. [Includes one REU Award for \$12,000.]

20. National Science Foundation Grant EIA-0121326. (\$3,524,000) *ITR/PE: Interaction and Participation in Integrated Land Use, Transportation, and Environmental Modeling*. (2001 – 2006). Friedman, B. (Co-PI). With Alan Borning (PI), David S. Notkin (Co-PI), Zoran Popovic (Co-PI), Department of Computer Science & Engineering, and Paul Waddell (Co-PI), Department of Policy and Planning, University of Washington. [Includes two REU Awards for a total of \$24,000.]
21. Intel Corporation Unrestricted Gift. (\$12,000). To support research in *Value Sensitive Design*. (2004).
22. National Science Foundation Grant IIS-0102558. (\$523,908) *Augmented Reality of the Natural World and Its Psychological Effects: A Value-Sensitive Design Approach*. (2001-2004). Friedman, B. (Co-PI). With Peter H. Kahn, Jr. (PI), Department of Psychology, University of Washington, and Alan Beck (Co-PI), School of Veterinary Medicine, Purdue University. [Includes one REU Award for \$24,000.]
23. Intel Corporation Unrestricted Gift. (\$24,000). To support research in *Value Sensitive Design*. (2002).
24. Center for Mind, Brain, and Learning, University of Washington. (\$81,000) *Robot Pets in the Lives of Young Children*. (2001-2002). Friedman, B. (Co-PI). With Peter H. Kahn, Jr., (PI) Department of Psychology, University of Washington.
25. National Science Foundation Grant SES-0096131. (\$470,256). *Collaborative Research: Network Browser Security and Human Values: Theory and Practice*. (1998-2002). Friedman, B. (PI). Collaborative research with Edward Felten (PI), Department of Computer Science, and Helen Nissenbaum (Co-PI), Center for Human Values, Princeton University.
26. National Science Foundation Grant IIS-9911185. (\$100,000) *Informed Consent Online: Criteria, Metrics and the Design of Web-Based Programming Languages*. (1999-2001). Friedman, B. (PI). With Edward Felten (Co-PI), Department of Computer Science, Princeton University.
27. National Science Foundation Grant IIS-0000567. (\$35,000) *Value-Sensitive Design: Cultivating Research and Community*. (2000-2001). Friedman, B. (PI). With Alan Borning (Co-PI), Department of Computer Science and Engineering, University of Washington.
28. New England Consortium of Undergraduate Science Education Grant. (\$10,706). *Robot-based Explorations in the Computer Science Curriculum*. (1997). Friedman, B. (PI).
29. Texas Education Agency Grant. (\$36,963). *Environmental Science and Values Education for Low-performing Students in a Black Community*. (1991-1992). Friedman, B. (Co-PI). With Peter H. Kahn, Jr. (Co-PI), Department of Human Development and Consumer Sciences, University of Houston, and in collaboration with G. Mundine, Principal, Blackshear Elementary School.

6 Publications

6.1 Books

1. Friedman, B. and Hendry, D. G. (in press). *Value Sensitive Design: Shaping technology with moral imagination*. Cambridge, MA: The MIT Press.
2. Friedman, B. (Ed.) (1997). *Human values and the design of computer technology*. New York: Cambridge University Press and CSLI, Stanford University.

[This book has been incorporated into courses at universities such as Princeton, MIT, and the Kennedy School.]

3. Friedman, B., and Winograd, T. (Eds.). (1990). *Computing and social responsibility: A collection of course syllabi*. Palo Alto, CA: Computer Professionals for Social Responsibility.
4. Friedman, B., and Slesnick, T. (1982). *Creative play* [Computer software and teacher's guide]. Berkeley, CA: Lawrence Hall of Science, University of California.
5. Friedman, B., and Slesnick, T. (1980). *Teaching BASIC bit by bit*. Berkeley, CA: Lawrence Hall of Science, University of California.

6.2 Peer-Reviewed Journal Articles

1. Young, M., Magassa, L. and Friedman, B. (conditional acceptance). Toward inclusive tech policy design: A method for underrepresented voices to strengthen tech policy documents. *Ethics and Information Technology*.
2. Bender, E. M. and Friedman, B. (in press). Data statements for natural language processing: Toward mitigating system bias and enabling better science. *Transactions of the Association of Computational Linguistics*.
3. Friedman, B., Hendry, D.G., and Borning, A. (2017). A survey of Value Sensitive Design methods. *Foundations and Trends in Human Computer Interaction*. Boston and Delft: Now Publishers. DOI: <http://dx.doi.org/10.1561/1100000015>
4. Friedman, B., Nathan, L. P., and Yoo, D. (2016). Multi-lifespan information system design in support of transitional justice: Evolving situated design principles for the long(er) term. *Interacting with Computers*. doi: 10.1093/iwc/iwv045
5. Munson, S. A., Avrahami, D., Consolvo, S., Fogarty, J., Friedman, B., and Smith, I. (2012). Sunlight or sunburn: A survey of attitudes toward online availability of US public records. *Information Polity*, 17(2), 99-114.
6. Melson, G. F., Kahn, P. H., Jr., Beck, A., and Friedman, B. (2009). Robotic pets in human lives: Implications for the human-animal bond and for human relationships with personified technologies. *Journal of Social Issues*, special issue on "Human-Animal Interactions: Theory, Policy, and Research, 65(3), 545 – 567.
7. Melson, G. F., Kahn, P. H., Jr., Beck, A., Friedman, B., Roberts, T., Garrett, E., and Gill, B. (2009). Children's behavior toward and understanding of robotic and living dogs. *Journal of Applied Developmental Psychology*, 30, 92 – 102.
8. Friedman, B., Freier, N. G., Kahn, P. H., Jr., Lin, P., and Sodeman, R. (2008). Office window of the future? – Field-based analyses of a new use of a large display. *International Journal of Human Computer Studies*, 66, 452-465.
9. Kahn, P. H., Jr., Friedman, B., Gill, B., Hagman, J., Severson, R., L., Freier, N. G., Feldman, E., Carrere, S., and Stolyar, A. (2008). A plasma display window? – The shifting baseline problem in a technologically-mediated natural world. *Journal of Environmental Psychology*, 28(2), 192-199.
10. Kahn, P. H., Jr., Ishiguro, H., Friedman, B., Kanda, T., Freier, N. G., Severson, R. L., and Miller, J. (2007). What is a human? – Toward psychological benchmarks in the field of human-robotic interaction. *Interaction Studies: Social Behavior and Communication in Biological and Artificial Systems*, 8(3), 363-390.

11. Friedman, B., Kahn, P. H. Jr., Hagman, J., Severson, R. L., and Gill, B. (2006). The watcher and the watched: Social judgments about privacy in a public place. *The Human-Computer Interaction Journal*, 21(2), 233-269.

Reprinted in: S. Harrison (ed.), 2009, *Media space: Reflecting on 20+ years of mediated life* (pp. 145 – 176). Berlin, GR: Springer-Verlag.
12. Kahn, P. H., Jr., Friedman, B., Perez-Granados, D. R., and Freier, N. G. (2006). Robotic pets in the lives of preschool children. *Interaction Studies: Social Behavior and Communication in Biological and Artificial Systems*, 7(3), 405 – 436.
13. Davis, J., Lin, P., Borning, A., Friedman, B., Kahn, P., and Waddell, P. (2006). Simulations for urban planning: Designing for human values. *IEEE Computer*, 39(9), 66-72.
14. Friedman, B., Kahn, P. H., Jr., and Howe, D. C. (2000). Trust online. *Communications of the ACM*, 43(12), 34-40.
15. Kahn, P. H., Jr., and Friedman, B. (1998). On nature and environmental education: Black parents speak from the inner city. *Environmental Education Research*, 4, 25-39.
16. Friedman, B. (1997). Social judgments and technological innovation: Adolescents' understanding of property, privacy, and electronic information. *Computers in Human Behavior*, 13(3), 327-351.
17. Friedman, B., and Nissenbaum, H. (1996). Bias in computer systems. *ACM Transactions on Information Systems*, 14(3), 330-347. (Earlier version published as Tech. Rep. No. CSLI-94-188, Stanford, CA: CSLI, Stanford University)
18. Howe, D., Kahn, P. H., Jr., and Friedman, B. (1996). Along the Rio Negro: Brazilian children's environmental views and values. *Developmental Psychology*, 32, 979-987.
19. Kahn, P. H., Jr., and Friedman, B. (1995). Environmental views and values of children in an inner-city Black community. *Child Development*, 66, 1403-1417.
20. Friedman, B., and Kahn, P. H., Jr. (1994). Educating computer scientists: Linking the social and the technical. *Communications of the ACM*, 37(1), 64-70.
21. Friedman, B. and Kahn, P. H., Jr. (1992). Human agency and responsible computing: Implications for computer system design. *Journal of Systems Software*, 17, 7-14.

Reprinted in B. Friedman (Ed.), (1997), *Human Values and the Design of Computer Technology* (pp. 221-235). Cambridge, England: Cambridge University Press.
22. Friedman, B. (1991). Social and moral development through computer use: A constructivist approach. *Journal of Research on Computing in Education*, 23, 560-567.
23. Friedman, B. (1990). Bringing knowledge of women mathematicians into the mathematics classroom. *Mathematics and Computer Education Journal*, 24, 250-253.

6.3 Peer-Reviewed Full Conference Papers and Notes

1. Logler, N., Yoo, D., and Friedman, B. (2018). Metaphor Cards: A how-to-guide for making and using a generative metaphorical design toolkit. In *Proceedings of DIS 2018*. New York, NY: ACM Press. [25% acceptance rate] **Honorable Mention [top 5% of submitted papers]**.

2. Yoo, D., Kantengwa, O., Logler, N., Interayamahanga, R., Nkurunziza, J., and Friedman, B. (2018). Collaborative reflection: A practice for enriching research partnerships spanning culture, discipline, and time. In *Proceedings of CHI 2018*. New York, NY: ACM Press.
3. Friedman, B. and Yoo, D. (2017). Pause: A multi-lifespan design mechanism. In *Proceedings of CHI 2017*. New York, NY: ACM Press. [25% acceptance rate]
4. Yoo, D., Derthick, K., Ghassemian, S., Hakizimana, J., Gill, B., and Friedman, B. (2016). Multi-lifespan design thinking: Two methods and a case study with the Rwandan diaspora. In *Proceedings of CHI 2016*. New York, NY: ACM Press. [23% acceptance rate]
5. Rector, K., Milne, L., Ladner, R. E., Friedman, B., and Kientz, J. (2015). Exploring the opportunities and challenges with exercise technologies for people who are blind or low-vision. In *Proceedings of ASSETS 2015*. New York, NY: ACM Press. [23% acceptance rate]
6. Denning, T., Friedman, B., Gill, B., Kramer, D. B., Reynolds, M. R., and Kohno, T. (2014). CPS: Beyond usability: Applying value sensitive design based methods to investigate domain characteristics for security for implantable cardiac devices. *Annual Computer Security Applications Conference (ACSAC) 2014*. [20% acceptance rate]
7. Yoo, D., Lake, M., Nilsen, T., Utter, M. E., Alsdorf, R., Bizimana, T., Nathan, L. P., Ring, M., Utter, E. J., Utter, R. F., and Friedman, B. (2013). Envisioning across generations: A multi-lifespan information system for international justice in Rwanda. In *Proceedings of CHI 2013*. New York, NY: ACM Press. [20% acceptance rate]
8. Yoo, D., Huldgren, A., Woelfer, J. P., Hendry, D. G., and Friedman, B. (2013). A Value-Sensitive Action-Reflection model: Evolving a co-design space with stakeholder and designer prompts. In *Proceedings of CHI 2013*. New York, NY: ACM Press. [20% acceptance rate]
9. Friedman, B., and Hendry, D. G. (2012). The *Envisioning Cards*: A toolkit for catalyzing humanistic and technical imagination. In *Proceedings of CHI 2012* (pp. 1145-1148). New York, NY: ACM Press. [23% acceptance rate] **Nominated for Best Paper Award [top 5% of submitted papers]**.
10. Munson, S. A., Avrahami, D., Consolvo, S., Fogarty, J., Friedman, B., and Smith, I. (2011). Attitudes toward online availability of US public records. In *Proceedings of dg.o 2011*. New York, NY: ACM Press. **Best Research Paper Award**.
11. Woelfer, J., Iverson, A., Hendry, D. G., Friedman, B., and Gill, B. (2011). Improving the safety of homeless young people with mobile phones: Values, form and function. In *Proceedings of CHI 2011*. New York, NY: ACM Press. [25% acceptance rate]
12. Nathan, L.P., Grey, N.C., Lake, M., Nilsen, T., Utter, E., Utter, R.F., Ring, M., Kahn, Z., and Friedman, B. (2011). Multi-lifespan information system design: Investigating a new design approach in Rwanda. In *Proceedings of iConference 2011*. New York: ACM Press. [63% acceptance rate]
13. Czeskis, A. Dermendjieva, I., Yapit, H., Borning, A., Friedman, B., Gill, B., and Kohno, T. (2010). Parenting from the pocket: Value tensions and technical directions for secure and private parent-teen mobile safety. In *Proceedings of SOUPS 2010*. New York: ACM Press. [25% acceptance rate] **Winner, 2010 Multi-disciplinary Paper in Privacy Award** presented at the Computers, Privacy & Data Protection.
14. Friedman, B., and Nathan, L.P. (2010). Multi-lifespan information system design: A research initiative for the HCI community. In *Proceedings of CHI 2010* (pp. 2243-2246). New York: ACM Press. [22% acceptance rate]

15. Denning, T., Borning, A., Friedman, B., Gill, B. T., Kohno, T., and Maisel, W. H. (2010). Patients, pacemakers, and implantable defibrillators: Human values and security for wireless implantable medical devices. In *Proceedings of CHI 2010* (pp. 917-926). New York: ACM Press. [22% acceptance rate] **Honorable Mention, 2010 Multi-disciplinary Paper in Privacy Award** presented at the Computers, Privacy & Data Protection.
16. Friedman, B., Höök, K., Gill, B., Eidmar, L., Sallmander Prien, C., and Severson, R. L. (2008). Personlig integritet: A comparative study of perceptions of privacy in public places in Sweden and the United States. In *Proceedings of NordiCHI 2008* (pp. 142 – 151). New York: ACM Press.
17. Friedman, B., Borning, A., Davis, J., Gill, B., Kahn, P. H., Jr., Kirplean, T., and Lin, P. (2008). Laying the foundations for public participation and value advocacy: Interaction design for a large scale urban simulation. In *Proceedings of the 9th Annual International Conference on Digital Government Research* (dg.o2008) (pp. 305 – 314). New York: ACM Press.
18. Nathan, L. P., Friedman, B., Klasnja, P., Kane, S., and Miller, J. (2008). Envisioning systemic effects on persons and society throughout interactive system design. In *Proceedings of DIS 2008* (pp. 1-10). New York: ACM Press. [33% acceptance rate]
19. Hendry, D., and Friedman, B. (2008). Theories and practice of design for interactive systems: Eight design perspectives in ten short weeks. In *Proceedings of DIS 2008* (pp. 435-444). New York: ACM Press. [33% acceptance rate]
20. Miller, J., Friedman, B., Jancke, G., and Gill, B. (2007). Value tensions in design: The value sensitive design, development, and appropriation of a corporation's groupware system. In *Proceedings of GROUP 2007* (pp. 281-290). New York: ACM Press.
21. Friedman, B., Smith, I. E., Kahn, P. H., Jr., Consolvo, S., and Selawski, J. (2006). Development of a privacy addendum for open source licenses: Value Sensitive Design in industry. In *Proceedings of Ubicomp 2006* (pp. 194-211). Berlin, Heidelberg, New York: Springer-Verlag.
22. Kahn, P. H., Jr., Ishiguro, H., Friedman, B., and Kanda, T. (2006). What is a human? - Toward psychological benchmarks in the field of human-robot interaction. In *Proceedings of the 15th International Symposium on Robot and Human Interactive Communication (RO-MAN 06)* (pp. 364-371). Hatfield, UK: IEEE.
23. Borning, A., Friedman, B., Davis, J., and Lin, P. (2005). Informing public deliberation: Value sensitive design of indicators for a large-scale urban simulation. *Proceedings of ECSCW* (pp. 449 – 468). Dordrecht, The Netherlands: Springer.
24. Kahn, P. H. Jr., Friedman, B., Alexander, I. S., Freier, N. G., and Collette, S. L. (2005). What conversations in the Telegarden reveal about human-telerobotic interaction. *Proceedings of Proceedings of the 14th International Workshop on Robot and Human Interactive Communication – RO-MAN* (pp. 13 – 18). Piscataway, NJ: IEEE.
25. Kahn, P. H., Jr., Freier, N. G., Friedman, B., Severson, R. L., and Feldman, E. (2004). Social and moral relationships with robotic others? *Proceedings of the 13th International Workshop on Robot and Human Interactive Communication – RO-MAN* (pp. 545 – 550). Piscataway, NJ: IEEE.
26. Friedman, B., Kahn, P. H., Jr., and Hagman, J. (2003). Hardware companions?: What online AIBO discussion forums reveal about the human-robotic relationship. *Proceedings of CHI 2003* (pp. 273 – 280). New York, NY: ACM Press.
27. Friedman, B., Howe, D. C., and Felten, E. (2002). Informed Consent in the Mozilla Browser: Implementing Value-Sensitive Design. *Proceedings of the Thirty-fifth Annual Hawai'i International Conference on System Sciences*. Abstract, p. 247; CD-ROM of full paper,

OSPE101. IEEE Computer Society: Los Alamitos, CA. **Awarded Best Paper of Organizational Systems Track** (out of 90+ papers).

Reprinted in: K. E. Himma (ed.), 2006, *Internet security: Hacking, counterhacking, and society* (pp. 153-169). Sudbury, MA: Jones and Bartlett Publishers.

28. Millett, L., Friedman, B., and Felten, E. (2001). Cookies and Web browser design: Toward realizing informed consent online. *Proceedings of CHI 2001* (pp. 46-52). New York: ACM Press.
29. Friedman, B., and Nissenbaum, H. (1997). Software agents and user autonomy. *Proceedings of the First International Conference on Autonomous Agents* (p. 466-469). New York: ACM Press.

6.4 Peer-Reviewed Short Conference Papers, Demos, and Panels

1. Friedman, B., and Hendry, D. G. (2012). Interactivity: The *Envisioning Cards*: A toolkit for catalyzing humanistic and technical imagination. *Extended Abstracts of CHI 2012*. New York, NY: ACM Press.
2. Nilsen, T., Grey, N. C., and Friedman, B. (2012). Public curation of a historic collection: A means for speaking safely in public. *Extended Abstracts of CSCW 2012*. New York: ACM Press.
3. Friedman, B., Nathan, L.P., Grey, N.C., Lake, M., Nilsen, T., Utter, E., Utter, R.F., Ring, M., and Kahn, Z. (2010). Multi-lifespan information system design in post-conflict societies: An evolving project in Rwanda. *Extended Abstracts of CHI 2010* (pp. 2833 – 2842). New York: ACM Press.
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7. Kahn, P. H., Jr., Friedman, B., Perez-Granados, D. R., and Freier, N. G. (2004). Robotic pets in the lives of preschool children. *Extended Abstracts of CHI 2004*. New York, NY: ACM Press. Includes video-figure. [acceptance rate 29%]
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9. Borning, A., Friedman, B. and Kahn, P. H., Jr. (2004). Designing for Human Values in an Urban Simulation System: Value Sensitive Design and Participatory Design. *Short Papers, Eighth Biennial Participatory Design Conference* (pp. 67- 71). Palo Alto, CA: Computer Professionals for Social Responsibility.
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13. Friedman, B., and Borning, A. (2002). Value Sensitive Design as a Pattern: Examples from Informed Consent in Web Browsers and from Urban Simulation. *Conference Proceedings of DIAC 2002* (p. 109 – 113). Palo Alto, CA: Computer Professionals for Social Responsibility.
14. Friedman, B., and Thomas, J. C. (2001). Is ignorance bliss?: Informed consent online. *CHI 2001 Extended Abstracts of the Conference on Human Factors in Computer System* (pp. 215-216). New York: Association for Computing Machinery.
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16. Friedman, B. (2000). (Panelist). Artificial morality? Non-contractual trust, design, and human and computer interaction. *CHI 2000 Extended abstracts of the conference on Human Factors in Computing Systems* (pp. 239-240). New York: Association for Computing Machinery.
17. Friedman, B., and Thomas, J. C. (1999). (Organizer and Panelists). Trust me, I'm accountable: Trust and accountability online. *CHI 99 Extended abstracts of the conference on Human Factors in Computing Systems* (p. 79-80). New York: Association for Computing Machinery.
18. Friedman, B. (1999). (Panelist). Is Actimates Barney ethical?: The potential good, bad, and ugly of interactive plush toys. *CHI 99 Extended abstracts of the conference on Human Factors in Computing Systems* (p. 91-92). New York: Association for Computing Machinery.
19. Friedman, B. and Grudin, J. (1998). Trust and Accountability: Preserving human values in interactional experience. *CHI 98 Summary of the Conference on Human Factors in Computing Systems* (p. 213). New York: Association for Computing Machinery.
20. Friedman, B., and Nissenbaum, H. (1996, April). User autonomy: Who should control what and when? *Conference Companion of the Conference on Human Factors in Computing Systems, CHI 96* (p. 433). New York: Association for Computing Machinery.
21. Friedman, B., and Millett, L. (1995, May). "It's the computer's fault" -- Reasoning about computers as moral agents. *Conference Companion of the Conference on Human Factors in Computing Systems, CHI '95* (pp. 226-227). New York: Association for Computing Machinery.
22. Friedman, B., and Nissenbaum, H. (1995, May). Minimizing bias in computer systems. *Conference Companion of the Conference on Human Factors in Computing Systems, CHI '95* (p. 444). New York: Association for Computing Machinery.
23. Friedman, B. (Organizer and Panelist). (1994). Beyond accuracy, reliability, and efficiency: Criteria for a good computer system. *Conference companion of the conference on Human Factors in Computing Systems, CHI '94* (pp. 195-196). New York: Association for Computing Machinery.
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25. Friedman, B. (1992). Designing computer systems for human (and humane) use. In D. Schular (Ed.), *Proceedings of the Conference on Directions and Implications of Advanced Computing* (pp. 131-133). Berkeley.

6.5 Other Publications

1. Lazar, J., Abascal, A., Barbosa, S., Barksdale, J., Friedman, B., Grossklags, J., Gulliksen, J., Johnson, J., McEwan, T., Martinez-Normand, L., Michalk, W., Tsai, J., VanDerVeer, G., vonAxelson, H., Walldius, A., Whitney, G., Winckler, M., Wulf, V., Churchill, E., Cranor, L., Davis, J., Hedge, A., Hochheiser, H., Hourcade, J-P., Lewis, C., Nathan, L., Paterno, F., Reid, B., Quesenbery, W., Selker, T., and Wentz, B. (2016). Human-Computer interaction and international public policymaking: A framework for understanding and taking future actions. *Foundations and Trends in Human-Computer Interaction*.
2. Calo, R., Denning, T., Friedman, B., Kohno, T., Magassa, L., McReynolds, E., Newell, B. C., Roesner, F., and Woo, J. (2015). *Augmented Reality: A Technology and Policy Primer*. Published by the Tech Policy Lab, University of Washington, Seattle, WA.
3. Friedman, B. (2015). Participation in Convergence Research. In William Bainbridge and Mihail Roco, *Handbook of Science and Technology Convergence*, Springer.
4. Friedman, B., and Schneider, F. B. (2015). CRA Best Practices Memo: Incentivizing quality and impact: Evaluating scholarship in hiring, tenure and promotion. Washington DC: Computing Research Association. Approved on February 24, 2015.
5. Davis, J., Friedman, B. and Nathan, L. P. (2015). HCI and Public Policy: History and Focus. In Jonathan Lazar (Ed.), *Human- Computer Interaction and Public Policymaking Internationally: A Foundation for Understanding*, SIGCHI Public Policy Report, April 2015.
6. Friedman, B. (2014). Structural challenges and the need to adapt: Broadening the conversation about scholars and scholarship in computing and information research. *Communications of the ACM* 57(7), 34-37.
7. Nathan, L. P., and Friedman, B. (2010). Interacting with policy in a political world: Reflections from the Voices of the Rwanda Tribunal project. *interactions*, XVII.5 - September/October, 56-59.
8. Czeskis, A., Koscher, K., Andrews, M., Grey, N. C., Friedman, B., and Kohno, T. (2009, March 27). *The International Criminal Tribunal for Rwanda Information Heritage Project (aka Voices from the Rwanda Tribunal): Integrity Verification Architecture*. (UW Computer Science and Engineering Technical Report 09-01-02). Seattle, WA: University of Washington, Department of Computer Science and Engineering.
9. Nathan, L. P., Friedman, B., and Hendry, D. (2009). Information system design as catalyst: Human action and environmental sustainability. *interactions*, 16(4), 6-11.
10. Friedman, B. (2008). Value Sensitive Design. In D. Schular (ed). *Liberating voices: A pattern language for communication revolution* (pp. 366-368). Cambridge, MA: The MIT Press.
11. Friedman, B., Kahn, P. H., Jr., and Borning, A. (2006). Value Sensitive Design and Information Systems. In P. Zhang and D. Galletta (eds.), *Human-computer interaction in management information systems: Foundations* (pp. 348-372). Armonk, NY: M. E. Sharpe.

Reprinted in K. E. Himma and H. T. Tavani (eds.). (2008). *The handbook of information and computer ethics*, pp. 69 - 101. Hoboken, NJ: John Wiley & Sons, Inc.

Reprinted in N. Doorn, D. Schuurbijs, I. van de Poel, and M. E. Gorman (eds.). (2013). *Early engagement and new technologies: Opening up the laboratory*. Dordrecht, Germany: Springer.

12. Friedman, B., Lin, P., and Miller, J. K. (2005). Informed consent by design. In L. Cranor and S. Garfinkel (eds.), *Designing secure systems that people can use* (pp. 495 – 521). Cambridge, MA: O'Reilly and Associates.
13. Friedman, B., and Freier, N. G. (2005). Value Sensitive Design. In K. E. Fisher, S. Erdelez, and E. F. McKechnie (eds.), *Theories of Information behavior: A researcher's guide* (pp. 368-372). Medford, NJ: Information Today.
14. Friedman, B., Kahn, P. H., Jr., Hagman, J., and Severson, R. L. (2005). *Coding manual for 'The Watcher and The Watched: Social Judgments about Privacy in a Public Place,'* (UW Information School Technical Report IS-TR-2005-07-01). Seattle, WA: University of Washington, The Information School. Available online at: <http://hdl.handle.net/1773/2074>
15. Friedman, B. (2005). *Reflections on Usable Privacy for Location-Awareness Systems* (UW Information School Technical Report IS-TR-2005-06-02). Seattle, WA: University of Washington, The Information School. Available online at: <http://hdl.handle.net/1773/2070>
16. Kahn, P. H., Jr., Friedman, B., and Alexander, I. S. (2005). *Coding Manual for 'The Distant Gardener: What Conversations in the Telegarden Reveal about Human-Teletrobotic Interaction,'* (UW Information School Technical Report IS-TR-2005-06-01). Seattle, WA: University of Washington, The Information School. Available online at: <http://hdl.handle.net/1773/2067>
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21. Kahn, P. H., Jr., Friedman, B., Freier, N., and Severson, R. (2003). *Coding manual for children's interactions with AIBO, the robotic dog – The preschool study* (UW CSE Technical Report 03-04-03). Seattle, WA: University of Washington, Department of Computer Science and Engineering.
22. Friedman, B., Kahn, P. H., Jr., and Borning, A. (2002). *Value Sensitive Design: Theory and methods* (UW CSE Technical Report 02-12-01). Seattle, WA: University of Washington, Department of Computer Science and Engineering.
23. Borriello, G., Friedman, B., and Kahn, P. K., Jr. (2001). Ubiquitous computing: Technical, psychological, and value-sensitive integrations. In Schmidt, A., Ljungstrand, P., & Dey, A. K. (Eds.), *Distributed and disappearing user interfaces in ubiquitous computing* (pp. 35-39). (Technical Report 2001-6). Karlsruhe, Germany: University of Karlsruhe, Department of Computer Science.

24. Friedman, B. (2000). Review of *GUI bloopers* by Jeff Johnson. *Behaviour and Information Technology*, 19(6), 466-467.
25. Friedman, B., Millett, L., and Felten, Ed. (2000). *Informed consent online: A conceptual model and design principles*. (UW-CSE Technical Report 00-12-2). Seattle, WA: University of Washington, The Department of Computer Science and Engineering.
26. Friedman, B. (1999). *Value-Sensitive Design: A research agenda for information technology*. (Contract No: SBR-9729633). Arlington, VA: National Science Foundation.
27. Kahn, P. H., Jr., and Friedman, B. (1998). Control and power in educational computing. In H. Bromley and M. W. Apple (Eds.), *Education/Technology/Power: Educational computing as a social practice* (pp. 157-173). New York: SUNY Press.
28. Friedman, B. and Workshop Participants. (1998). User autonomy: Who should control what and when? *SIGCHI Bulletin*, 30(1), 26-29.
29. Friedman, B. (1996). Value-sensitive design. *interactions*, III(6), 17-23.
30. Friedman, B., Brok, E., Roth, S. K., and Thomas, J. (1996). Minimizing bias in computer systems: A CHI '95 Workshop. *SIGCHI Bulletin*, 28(1), 48-51.
31. Friedman, B. (1992). Courting culture in computer science. In T. W. Bynum, W. Maner, & J. L. Fodor (Eds.), *Teaching computer ethics* (pp. 84-88). New Haven, CT: Research Center on Computing and Society.
32. Friedman, B. (1990). A course in professional responsibility for computer scientists. *Computers & Society*, 20, 174-179.
33. Friedman, B. (1986, October). If I only had one more computer... Facing the sticky issues of resource allocation. *Classroom Computer Learning*, pp. 44-45.
34. Grimm, L., and Friedman, B. (1984). *Robot odyssey I* [Computer software manual and on-line tutorials]. Menlo Park, CA: The Learning Company.
35. Slesnick, T., and Friedman, B. (1983). Discovery learning with computers: The simulation game. *Curriculum Review*, 22(3), 27-30.
36. Friedman, B. (1983). [Review of *Perception 3.0*]. *Curriculum Review*, 22(3), 64.
37. Friedman, B. (1982, July). Art and the computer. *Creative Computing*, pp. 97-99.
38. Friedman, B. (1982). [Review of *Programming language: PILOT*]. *Curriculum Review*, 21(4), 387-388.

7 Toolkits, Data Collections, Software and Other Creative Products

1. *Multi-lifespan Envisioning Cards – Supplementary Set*. (2018). Design and development of a supplementary set of 13 Envisioning Cards that specifically engage multi-lifespan design thinking. Yoo, D., Logler, N., Ballard, S., and Friedman, B. (2018). *Multi-lifespan Envisioning Cards – Supplementary Set*. Value Sensitive Design Lab, University of Washington, Seattle, WA.
2. *Diverse Voices How-to Guide*. (2017). Development of a method, and corresponding how-to guide, for enabling “experiential” experts from underrepresented groups to provide comments on tech policy documents. Magassa, L., Young, M., and Friedman, B. (2017). *Diverse Voices: A*

- how-to guide for creating more inclusive tech policy documents*. Tech Policy Lab. University of Washington, Seattle, WA. Available at: <http://techpolicylab.org/diversevoicesguide/>
3. *Metaphor Cards*. (2017). Design and development of the concept and structure of Metaphor Cards to scaffold metaphorical design thinking along with a specific set of cards for designing information systems for international justice; integrates insights from value sensitive design and multi-lifespan design. Yoo, D., Logler, N., and Friedman, B. (2017). *Metaphor Cards*. Value Sensitive Design Research Lab, University of Washington, Seattle, WA.
 4. *Security Cards*. (2013). Design and development of a deck of Security Cards that brings together insights from value sensitive design with heuristics from security threat analysis to scaffold a security mindset around the design of information systems. Denning, T., Friedman, B., and Kohno, T. (2013). *Security Cards*. Value Sensitive Design Lab, University of Washington, Seattle, WA. University of Washington, Seattle, WA. Available at: securitycards.cs.washington.edu
 5. *Envisioning Cards*. (2011). Design and development of a deck of value sensitive design Envisioning Cards to scaffold the integration of a moral and technical imagination in design. Friedman, B., Nathan, L. P., Kane, S., and Lin, J. (2011). *Envisioning Cards*. Value Sensitive Design Lab, University of Washington, Seattle, WA. University of Washington, Seattle, WA. Available at: envisioningcards.com
 6. *Voices from the Rwanda Tribunal*. (2008, on-going). Collection of historically significant video interviews with personnel from the International Criminal Tribunal for Rwanda (the first of its kind). Diverging from traditional oral history and consistent with a multi-lifespan information framing, interviewees speak toward the future more than to explicate the past. Full collection released in March 2012. Available at: tribunalvoices.org
 7. *Web-based Indicator Selector for Large Scale Urban Simulation*. (2003). Design and development of an interaction model, typology, and interface for indicator selection as part of the UrbanSim project on land use, transportation, and environmental modeling. (With C. Naumer and P. H. Kahn, Jr.)
 8. *Interactive Museum Exhibit on the Human-Robotic Relationship*. (2003). Design and development of an interactive software exhibit on the human-robotic relationship based on methods developed in our research; prototype to be used by the Science Museum of Minnesota in their planned exhibit on artificial life. (With A. Hendrickson and P. H. Kahn, Jr.)
 9. *Cookie Watcher Plug-in*. (2002). Redesign of the Mozilla browser (open-source for Netscape Navigator) to enhance users' experience of informed consent with cookies and Web browsing. (Discussed in Friedman, Felten, and Howe, 2002).
 10. *Robot Odyssey I*. (1984). Design and development of on-line tutorials and "innovation lab" for an educational simulation to introduce robotics and iconic programming to adolescents. (With L. Grimm, published by the Learning Company, 1984).
 11. *Creative Play*. (1982). Design, development and modification of twenty plus educational software programs to enhance problem-solving for children ages 8 – 11. (Published as Friedman and Slesnick, 1982.)

8 Peer-Reviewed Conference Presentations and Workshops

1. Borning, A., Friedman, B., and Gruen, D. (2018, May). What pushes back from considering materiality of IT? Paper presented at the Workshop on LIMITS, Toronto, Canada.

2. Yoo, D., Nathan, L.P., and Friedman, B. (2016). Designing within a highly politicized environment: The case of Voices from the Rwanda Tribunal. Paper presented at the Workshop on Ethical Encounters in HCI, CHI 2016, San Jose, CA.
3. King, I. S., Czeskis, A. Koschner, K., Nilsen, T., Friedman, B., and Kohno, T. (2014). Information systems in support of transitional justice: Trust, access and safety as design values. Paper presented at the Workshop on Trust & Information Policy in the Age of Data (big or small), SIG-IFP & SIG-III Pre-Conference Workshop, 2014 Annual Meeting of the American Society for Information Science and Technology (ASIS&T), Seattle, WA.
4. Friedman, B. (2013, April). Interacting with Policy over the Longer-Term: An Example from the Voices from the Rwanda Tribunal Project. Paper presented at the Workshop on Engaging the Human-Computer Interaction Community with Public Policymaking Internationally (CHI 2013), Paris, France.
5. Friedman, B., and Nathan, L. P. (2008, February). Multi-lifespan design challenges: Considering an African context. Paper presented at the Workshop on Building an International Community: Designing Interactive Systems for/with Communities in the Developing World (DIS 2008), Cape Town, South Africa.
6. Romanosky, S., Acquisti, A., Cranor, L. F., Hong, J., and Friedman, B. (2006, October). Privacy patterns for online interactions. Paper presented at the Conference on Pattern Languages of Programs (PLoP 2006), Portland, OR.
7. Nathan, L. P., Miller, J. K., and Friedman, B. (2006, September). SafetyNet: Safety in the city at what cost? Position paper for Workshop on Exurban Noir, UbiComp 2006, Newport Beach, CA.
8. Borning, A., Davis, J., and Friedman, B. (2006, May). Informing e-participation with results from simulations of urban development. Position paper for Workshop on E-Participation, 7th Annual National Conference on Digital Government Research, San Diego, CA.
9. Friedman, B. (2005, September). Reflections on usable privacy for location-awareness systems. Position paper for Workshop on Location Awareness and Community, ECSCW 2005, Paris, France.
10. Freier, N. G., Consolvo, S, Kahn, P. H., Jr., Smith, I. E., and Friedman, B. (2005, April). A Value Sensitive Design investigation of privacy for location-enhanced computing. Position paper for Workshop on Quality, Value(s), and Choice: Exploring Wider Implications of HCI Practice, CHI 2005, Portland, OR.
11. Kahn, P. H. Jr., Friedman, B., Alexander, I. S., Freier, N. G., and L. Collett, S. L. (2005, April). The distant gardener: What conversations in a telegarden reveal about the user experience of telepresence. Presented at the alt.chi session at CHI 2005, Portland, OR.
12. Melson, G. F., Kahn, P. H., Jr., Beck, A., Friedman, B., Roberts, T., and Garrett, E. (2005, April). "Does AIBO have a soul?" Children's perceptions of robotic dogs. Presented at the Society for Research on Child Development, Atlanta, GA.
13. Melson, G. F., Kahn, P. H., Jr., Beck, A., Friedman, B., Roberts, T., and Garrett, E. (2004, October). Children's behavior toward and understanding of robotic and living dogs. Presented at the Tenth International Conference on Human-Animal Interactions, Glasgow, Scotland.
14. Beck, A. M., Edwards, N. E., Kahn, P. H., Jr., and Friedman, B. (2004, October). Robotic pets as perceived companions for older adults. Paper presented at the Tenth International Conference on Human-Animal Interactions, Glasgow, Scotland.
15. Friedman, B., Kahn, P. H., Jr., and Hagman, Jr. (2004, April). The Watcher and The Watched: Social Judgments about Privacy in a Public Place. Paper presented at CHI 2004 in the chi fringe

- session (Vienna, Austria). In *Online Proceedings of CHI Fringe 2004*. ACM CHI Place. (<http://www.chiplace.org/chifringe/2004/198>).
16. Kahn, P. H., Jr., Friedman, B., Perez-Granados, D. R., and Freier, N. G. (2004, June). Robotic pets in the lives of preschool children. Paper presented at the Annual Meeting of the Jean Piaget Society, Toronto, Canada.
 17. Friedman, B., Kahn, P. H., Jr., and Hagman, J. (2004, April). The Watcher and The Watched: Social Judgments about Privacy in a Public Place. In *Online Proceedings of CHI Fringe 2004*. Vienna, Austria: ACM CHI Place, 2004. Available at: www.chiplace.org/fringe2004/198.
 18. Kahn, P. H., Jr., Friedman, B., Perez-Granados, D. R., and Freier, N. G. (2003, April). "Robotic Pets in the Lives of Preschool Children". Poster presented to the Biennial meeting of the Society for Research on Child Development, Tampa, FL, April 24 – 27, 2003.
 19. Hagman, J., Friedman, B., and Kahn, P. H., Jr. (2002). "On-line AIBO Discussion Forums: Talking Robotic Pets or Just Plain Talking?" Paper presented to the Internet Research 3.0: NET/WORK/THEORY, Association of Internet Researchers (AoIR) Conference, Maastricht, The Netherlands, October 13 – 16, 2002.
 20. Carrère, S., Friedman, B., and Kahn, P. H., Jr. (2002). "How Calming is My Technology? Using Physiological Measures to Assess whether Augmented Reality Systems Can Enhance Psychological Functioning in Workplace Settings". Paper presented to the workshop on Physiological Computing at CHI 2002, Minneapolis, MN, April 21, 2002.
 21. Borrillo, G., Friedman, B., and Kahn, P. H. Jr. (2001, April 1-2). "Ubiquitous computing: Technical, psychological, and value-sensitive integrations." Paper presented to the workshop on "Distributed and Disappearing User Interfaces in Ubiquitous Computing", CHI 2001, Seattle, WA.
 22. Friedman, B. (2000, April 2). "Augmented reality, communities of use, and Value-Sensitive Design." Paper presented to the workshop on "Electronic Communities: Places and Spaces, Contents and Boundaries", CHI 2000, The Hague, The Netherlands.
 23. Friedman, B. (1999, May 16-17). "Informed consent and the design of recommender systems." Paper presented to the workshop on Interacting with Recommender Systems, CHI 99, Pittsburgh, PA.
 24. Nissenbaum, H., and Friedman, B. (1997, June). "Values in computer system design: Bias and autonomy." Paper presented to the conference on Computer Ethics, Linköping, Sweden.
 25. Kahn, P. H., Jr., and Friedman, B. (1996, April). "Who'd want to walk around smelling air that stinks all the time?" -- African-American parents' views on the environment and environmental education." Paper presented at the annual meeting of the American Educational Research Association, New York.
 26. Kahn, P. H., Jr., Friedman, B., and McCoy, A. (1995, September). "Working in partnership across racial boundaries: Environmental science and values education in an inner-city." Paper presented at the meeting of the North American Association for Environmental Education, Portland, ME.
 27. Kahn, H. P., Jr., and Friedman, B. (1995, June). "Children's moral and ecological reasoning about the Prince William Sound oil spill." Paper presented at the Jean Piaget Society, Berkeley, CA.
 28. Friedman, B., and Kahn, P. H., Jr. (1995, April). "Minimizing bias in the design of educational computing technologies." Paper presented at the annual meeting of the American Educational Research Association, San Francisco.

29. Kahn, P. H., Jr., and Friedman, B. (1995, April). "Educating for moral responsiveness to nature in an inner-city Black elementary school." Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
30. Kahn, P. H., Jr., Howe, D. C., and Friedman, B. (1995, March). "Along the Rio Negro: Brazilian Children's Environmental Views and Values." Paper presented at the Biennial meeting of the Society for Research on Child Development, Indianapolis. (ERIC Document Reproduction Service No. ED 382 356)
31. Kahn, P. H., Jr. and Friedman, B. (1993, April). "Control and power in educational computing." Paper presented at the annual meeting of the American Educational Research Association, Atlanta, GA. (ERIC Document Reproduction Service No. ED 360 947)
32. Kahn, P. H. Jr., and Friedman, B. (1993, March). "Environmental views and values of children in an inner-city black community." Paper presented at the Biennial meeting of the Society for Research on Child Development, New Orleans. (ERIC Document Reproduction Service No. ED 360 456)
33. Friedman, B. and Nissenbaum, H. (1992, August). "Bias in computer system design: Pre-existing, technical, and contextual." Paper presented at the 4S/EASST Joint Conference, Goteborg, Sweden. Abstract published in *Technoscience*, 5(2), 25.
34. Friedman, B. and Kahn, P. H. Jr. (1991, April). "Who is responsible for what? And can what be responsible? The psychological boundaries of moral responsibility." Paper presented at the Biennial meeting of the Society for Research on Child Development, Seattle.
35. Friedman, B. (1990, April). "Societal issues and school practices: An ethnographic investigation of the social context of school computer use." Paper presented at the annual meeting of the American Educational Research Association, Boston. (ERIC Document Reproduction Service No. ED 321 740)
36. Friedman, B. (1990, April). "Moral responsibility and computer technology." In Peter H. Kahn, Jr. & B. Friedman (Organizers), Educating for moral responsibility across societal contexts. Symposium conducted at the annual meeting of the American Educational Research Association, Boston. (ERIC Document Reproduction Service No. ED 321 737)
37. Friedman, B. (1989, November). "The school use of computer technologies to promote moral and social development." Paper presented at the annual meeting of the Association for Moral Education, Newport Beach, CA.
38. Friedman, B. (1989, March). "Social reasoning about computer hacking, electronic information, and privacy in adolescence." Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
39. Friedman, B. (1988, April). "Adolescents' moral judgments of computer piracy: An analysis of social cognition in the context of technological change." Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
40. Friedman, B. (1988, April). "Obstacles and solutions: A case study of an exceptional elementary school and its developing computer education program." Paper presented at the annual conference of the International Association for Computing in Education, New Orleans.
41. Friedman, B. (1986, May). "Moral conflicts in the face of technological change: Computer piracy and privacy." Paper presented at the meeting of the World Congress on Education and Technology, Vancouver, B.C., Canada.

42. Friedman, B. (1986, May). "Tool uses of computers in education: A plea for powerful tools with guided activities." Paper presented at the meeting of the World Congress on Education and Technology, Vancouver, B.C., Canada.
43. Friedman, B. (1986, May). "Ethical decision-making in the computerized classroom." In B. Friedman (Chair), *Ethical decision-making in an information society*. Panel conducted at the meeting of the World Congress on Education and Technology, Vancouver, B.C., Canada.
44. Friedman, B. (1986, March). "Ethics in the computerized classroom: Dealing with real ethical issues and computer use." Paper presented at the meeting of the National Science Teachers' Association National Convention, San Francisco.
45. Friedman, B. (1985, April). "Computer simulations in the science curriculum: Substance or fluff?" Paper presented at the meeting of the National Science Teachers' Association National Convention, Cincinnati, OH.
46. Friedman, B. (1984, June). "Can computer simulations enhance the mathematics or science curriculum?" Paper presented at the meeting of the Pacific Division, American Association for the Advancement of Science, 65th Annual Meeting, San Francisco.
47. Friedman, B. (1984, April). "Twisting, twirling, transforming shapes: Computer art and number patterns." Paper presented at the annual meeting of the National Council of Teachers of Mathematics, San Francisco.
48. Friedman, B. (1983, November). "Thoughts on computers in the art classroom." Paper presented at the meeting of the Seventh Western Educational Computing Conference, San Francisco.
49. Friedman, B. (1981, June). "Teaching attitudes towards technology in the computer classroom." Paper presented at the meeting of the International Student Pugwash Conference, Yale University, New Haven.

9 Tutorials, Courses, and Workshops Organized

1. Calo, R., Friedman, B., and Kohno, T. (2018). Second Global Summit on Tech Policy: Toward Culturally Responsive Artificial Intelligence. Workshop organized by the UW Tech Policy Lab. Seattle, WA. August 7 – 9, 2018.
2. Friedman, B., Odom, W. and Yoo, D. (2018). Long(er)-Term Design Thinking. National Science Foundation Workshop organized by the Value Sensitive Design Lab, The Information School, University of Washington, Seattle, WA. May 29 – 31, 2018.
3. Friedman, B., Harbers, M., Hendry, D. G., van den Hoven, J., and Jonkers, C. (2016). Value Sensitive Design: Charting the Next Decade. Week long workshop organized for the Lorentz Center. Leiden, The Netherlands. November 14 – 18, 2016.
4. Calo, R., Friedman, B., Kohno, T., and McReynolds, E. (2016). Global Summit on Grand Challenges for Tech Policy. Workshop organized by the UW Tech Policy Lab. Seattle, WA. August 2 – 4, 2016.
5. Friedman, B., Nathan, L. P., and Yoo, D. (2015). Multi-lifespan Information System Design. Workshop organized for Critical 2015 Alternatives, 5th Decennial Aarhus Conference. Aarhus, Denmark. August 17 – 21, 2015.
6. Friedman, B., Hendry, D. G., van den Hoven, J., Hultgren, A., Jonker, C. M., and van Wynsberghe, A. (2015). Charting the Next Decade for Value Sensitive Design. Workshop

- organized for Critical 2015 Alternatives, 5th Decennial Aarhus Conference. Aarhus, Denmark. August 17 – 21, 2015.
7. Leshed, G., Sengers, P., Friedman, B., Nissenbaum, H., and Neustaedter, C. (2011). ‘Slow down, you move to fast!’ Rethinking the culture of busyness and IT. NSF funded symposium. University of Washington, Seattle, WA. May 5 – 7, 2011.
 8. Borning, A., Friedman, B., and Nathan, L. P. (2010). Addressing value tensions during the design process. CHI 2010.
 9. Lake, M., Grey, N. C., Ring, M., Friedman, B., Utter, R. F., Utter, E., Nathan, L. P., and Kahn, Z. (2009, July 20 – August 1). In collaboration with Never Again Rwanda, organized and ran a workshop on “Peace and Justice through Film” with 10 Rwandan youth. Kigali, Rwanda.
 10. Friedman, B., Nathan, L. P., and Kane, S. (2009). Beyond beta: Inspiring long-term thinking about interactive technology with Envisioning Cards. CHI 2009.
 11. Borning, A., Friedman, B., and Nathan, L. P. (2009). Addressing value tensions during the design process. CHI 2009.
 12. Friedman, B. Envisioning Cards Workshop – Envisioning systemic effects on persons and society throughout interactive system design. Workshop presented at KMDI, University of Toronto, Toronto Canada, November 19, 2008.

10 Keynotes, Distinguished Lectures, Talks, and Colloquia (selected from 1994 to the present)

1. “Engineering with Moral and Technical Imagination”

Invited presentation and panel at the Annual Meeting for the National Academy of Engineering at the National Academy of Sciences, Washington DC, October 1, 2018.
2. “Moral and Technical Imagination: A Value Sensitive Design Perspective”

Invited presentation in the Design@Large speaker series in the Department of Cognitive Science at the University of California San Diego, La Jolla, CA, February 28, 2018.
3. “Articulating How NLP Data and Systems Do and Don't Represent the World: Toward Mitigating Bias and Enabling Better Science”

Presentation at Microsoft Corp., Redmond, Washington, March 8, 2018.

Colloquium with Emily Bender presented to the Information School at the University of Washington, Seattle, Washington, November 20, 2017.
4. “Lives and Societies of Quality: A Value Sensitive Design Perspective”

Keynote presentation the Herrenhäuser Symposium on “Design Trade-Offs for Quality of Life Exploring Grand Challenges for the Digital Age” at Schloss Herrenhausen, Hannover, Germany, October 18, 2017.
5. “Value Sensitive Design in Practice: Implications and Ideas for P7000”

Invited presentation to the IEEE Standards Committee on P7000 - Model Process for Addressing Ethical Concerns During System Design, remote participation, April 7, 2017.

6. Interviewer: "My Politics as a Technologist"

Interviewer of Terry Winograd and Alan Borning for the UW Tech Policy Lab Distinguished Lecturer, Seattle, WA, November 30, 2016.
7. Interviewer: "Reflections on Value Sensitive Design in Action Research"

Interviewer of Volker Wulf for Distinguished Conversation in Workshop on Value Sensitive Design: Charting the Next Decade, Lorentz Center, Leiden, The Netherlands, November 18, 2016.
8. "Grand Challenges for Value Sensitive Design"

Opening remarks presented to the Workshop on Value Sensitive Design: Charting the Next Decade, Lorentz Center, Leiden, The Netherlands, November 14, 2016.
9. "Value Sensitive Design in Practice"

Invited Lecture presented to the Workshop on Technology and Morality, University of Twente, Twente, The Netherlands, November 10, 2016.
10. "Responsible Innovation: A Cross Disciplinary Lens on Privacy and Security Challenges"

Panel presentation (with Tadayoshi Kohno and Ryan Calo) to the College of Engineering Public Lectures Series, University of Washington, Seattle, WA, November 3, 2015.
11. "Technology of Value: Principles, Policy and Practice"

Colloquium presented to the Department of Computer Science, Harvard University, Cambridge, MA, November 13, 2014.

Colloquium presented to the Department of Information Studies, Cornell University, Ithaca, NY, November 5, 2014.
12. "Voices from the Rwanda Tribunal: Multi-lifespan Information System Design in Support of International Justice"

Colloquium presented to the International Center for Ethics, Justice and Public Life, Brandeis University. Waltham, MA. November 12, 2014. With Daisy Yoo.
13. "Toward New Recommended Best Practices for Hiring, Promotion and Scholarship,"

Invited Talk, CRA Deans Meeting, Snowbird, UT. July 22, 2014. With Fred Schneider.

Invited Talk, Snowbird Conference, Snowbird, UT. July 21, 2014. With Fred Schneider.
14. "Voices from the Rwanda Tribunal: An Update from the Field"

Presentation to the Erasmus Studio at Erasmus University, Rotterdam, The Netherlands, February 4, 2014.
15. "Agents of Value"

Keynote address presented at the 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2013), Saint Paul, MN, May 9, 2013.
16. "The Shape of Being: Technology Design, Human Values and the Future"

Colloquium presented at the Art Institute of Seattle, Seattle, WA, April 22, 2013.

Adobe Distinguished Lecture presented at Adobe Corporation, San Francisco, CA, March 14, 2013.

Yahoo! Lecture presented at the School of Information, University of Michigan, Ann Arbor, MI, February 28, 2013.

Colloquium presented at the Department of Computer Science, University of Colorado, Boulder, CO, February 21, 2013.

University Faculty Lecture, University of Washington, Seattle, WA, February 7, 2013.

17. “Research Culture in Information and Computing Research”

Invited presentation to the CRA Board of Directors Meeting, Washington DC, February 25-26, 2013.

18. “Intellectual Culture: Publication Culture in Computing Research”

Invited position paper and presentation at Dagstuhl Perspectives Workshop on Publication Culture in Computing Research, Schloss Dagstuhl, Wadern, Germany, November 7-9, 2012.

19. “Value Sensitive Design for Social Networking”

Full-day course presented at doctoral summer school on value sensitive design for social networking at the Technical University of Delft, Delft, The Netherlands, August 28, 2012.

20. “Voices from the Rwanda Tribunal”

Public lecture, School of Journalism and Communication, National University of Rwanda, Kigali, Rwanda, June 14, 2012.

21. “Something of Value”

SIG-CHI Social Impact Award Invited Talk, CHI 2012, Austin, TX, May 9, 2012.

22. “On Method: Human Values and Technical Infrastructure”

Invited presentation at the e-Research Ethics Retreat, Oxford University, Oxford, England, January 16, 2012.

23. “Digital Media, Reconciliation, and the International Criminal Tribunal for Rwanda”

Talk presented at the Institute for Information Systems, University of Siegen, Siegen, Germany, September 8, 2011.

Invited lecture presented in the Supranational Criminal Law Lecture Series, The Hague, The Netherlands, September 7, 2011.

24. “Value Sensitive Design: An Introduction”

Half-day course presented at doctoral summer school on values and design at the Technical University of Delft, Delft, The Netherlands, August 30, 2011.

25. “Human Values and Technical Infrastructure: Considering the Case of the Cloud, (Augmented Reality) and Mobile Computing”

Keynote presented at Microsoft Summer Institute on Security and Privacy for a Consumer, Cloud World, Cle Elum, WA, July 24 – 27, 2011.

26. “Value Sensitive Design”

Talk at the NSF PI Future of the Internet – Security and Trust Meeting, Oakland, CA, May 24 – 25, 2011.

27. “Respecting Safety: Two Techniques for Keeping Participants Safe while Investigating Safety”

Talk presented as a Research Conversation, The Information School, University of Washington, Seattle, WA, February 14, 2011. With Jill Palzkill Woelfer and David Hendry.

28. “Value Sensitive Design: A Brief(!) Encounter”

Talk presented to the Workshop on Ethics in the Laboratory: Encouraging Reflection through Interdisciplinary Collaboration, Technical University of Delft, Delft, The Netherlands, October 22-23, 2010.

29. “Parenting from the Pocket: Value Tensions and Technical Directions for Secure and Private Parent-teen Mobile Safety”

Colloquium presented to the Man-Machine Group at the Technical University of Delft, Delft, The Netherlands, September 2, 2011.

Talk presented to Nokia Research, Palo Alto, CA, May 18, 2010.

30. “Multi-lifespan Information System Design: Encounters with Freedom of Expression in Rwanda”

Invited panel presentation at the Rebele Panel, Department of Communications, Stanford University, Stanford, CA, May 17, 2010.

31. “Research Design Crit and Conversation: An Early Stage Prototype for the *Voices from the Rwanda Tribunal* Video Interviews”

Talk presented as a Research Conversation, The Information School, University of Washington, Seattle, WA, March 8, 2010. With Nell Carden Grey, Milli Lake, and Trond Nilsen.

32. “Multi-lifespan Information System Design in Post-Conflict Societies: A Rwandan Experience of International Justice”

Talk presented to the dub group, University of Washington, Seattle, WA, November 4, 2009. With Nell Carden Grey, Milli Lake, and Zoe Kahn.

33. “Peace and Justice Through Film”

Panel and screening of films by Rwandan youth at the United States Embassy to Rwanda, Kigali, Rwanda, August 8, 2009. With Never Again Rwanda youth and Tribunal Voices team.

34. “Voices from the Rwanda Tribunal: Striving for Justice After Genocide”

Talk presented to the Department of Media, Culture and Communication, New York University, New York, NY, November 12, 2009. With Zoe Kahn.

Invited lecture presented at the Center for Work, Technology, and Organization, Stanford University, Stanford, CA, May 11, 2009. With Max Andrews.

Public lecture presented at the University of Washington, Seattle WA, January 27, 2009.
With Tribunal Voices team.

35. “Privacy, Safety, and Verifiability: Envisioning Political Change”

Invited talk presented at the Google Privacy Summit, Google, Mountain View, CA, June 30/July 1, 2009.

36. “Value Sensitive Design: Principles and Practice”

Talk presented to the Center for Biomedical Ethics, Stanford University, Stanford, CA May 27, 2009. With Lisa Nathan.

37. “Designing for Human Values in Information Systems”

Distinguished Lecture, presented at the Department of Computer Science, University of Toronto, Toronto, Canada, November 18, 2008.

Talk presented at The Media Lab, MIT, Cambridge MA, May 5, 2008.

38. “The Watcher and The Watched”

Talk presented at the Biennial Board of Directors meeting for the American Civil Liberties Union, Seattle, WA, June 14, 2007.

39. “Privacy by Design”

Talk presented to Technology & Social Behavior Colloquium, Northwestern University. Evanston, IL, May 18, 2006.

Talk and panel presentation MediaSpace: A Panel Discussion on Being Public in a Networked World, The Patrick Suppes Center for the Interdisciplinary Study of Science and Technology and the Department of Communication, Stanford University. Stanford, CA, April 14, 2006.

Talk presented to the Swedish Institute of Computer Science. Kista, Sweden, March 20 – 22, 2006.

Distinguished Lecture presented to School of Computer and Information Sciences, University of Southern Alabama. Mobile, AL, January 20, 2006.

40. “On Value Sensitive Design”

Plenary presentation to the Dutch Workshop on Methodological Aspects of Technology Development and Design, Ethics Institute, Utrecht University. Utrecht, The Netherlands, March 24 – 25, 2006.

41. “Value Sensitive Design in the Domain of Architecture: From Office Windows to Urban Planning and Simulation”

Talk presented to the Design Machine Group, University of Washington. Seattle, WA, April 3, 2003. (With Alan Borning)

42. “Value Sensitive Design: Integrating Human Values into the Design of Information and Computer Technology”

Talk presented to the Workshop on “Public Values, System Design, and the Public Domain” at the Rockefeller Foundation Study and Conference Center, Bellagio, Italy, March 3 – 7, 2003.

- Seminar presented to Intel Research Seattle. Seattle, WA, December 11, 2002
43. “Robotic Companions? AIBO in the Lives of Children and other Human Beings”
Talk presented to the University of Washington SIGCHI Chapter. Seattle, WA, November 4, 2002. (With Nathan G. Freier and Jennifer Hagman)
 44. “People, Nature and Information Technology”
Symposium presentation to the Woodland Park Zoo. Seattle, WA, September 27, 2002.
(With Peter H. Kahn, Jr.)
 45. “Information Technology and Human Flourishing”
Seminar presented to at Intel Corporation, Hillsboro, OR, March 5, 2002.
Public Lecture, Initiative on Technology and Self, Massachusetts Institute of Technology, Cambridge, MA, February 27, 2002.
 46. “Sony’s Robotic Dog AIBO, Significant Others, and the Imaginative Leap”
Talk presented to the Evocative Objects Lunch, Initiative on Technology and Self, Massachusetts Institute of Technology, Cambridge, MA, February 26, 2002.
 47. “Robotic Pets and Children’s Social and Moral Development: A Value Sensitive Design Approach”
Talk presented to the Robotics Working Group, Initiative on Technology and Self, Massachusetts Institute of Technology, Cambridge, MA, February 26, 2002.
 48. “Value Sensitive Design”
Colloquia presented to the Department of Computer Science, University of Oregon, Eugene, OR, January 31, 2002.
 49. “Value-Sensitive Design and its Implications for Information Systems”
Colloquia presented to the Health and Medical Informatics Seminar, Department of Health Science, University of Washington, Seattle, WA, October 16, 2001.
Talk presented to the Alumni Association of the Information School, University of Washington, Seattle, WA, October 13, 2001.
 50. “Value-Sensitive Design: Cookies, Web Browsers and Informed Consent Online”
Colloquia presented to Human-Centered Computing Seminar, Department of Computer Science and Engineering, University of California, Berkeley, CA, April 24, 2001.
Colloquia presented to the Department of Computer Science and Engineering, University of Washington, Seattle, WA, January 9, 2001.
Talk presented to Riso, Danish National Research Lab, Roskilde, Denmark, April 10, 2000.
 51. “New Directions in Value-sensitive Design: Informed Consent, Online Trust, and the Beginnings of a National Research Agenda”
Half-day seminar presented to the Industrial Affiliate Program, Center for the Study of Language and Information, Stanford University, November, 11, 1999.
 52. “Value-Sensitive Design: Theory and Practice”

Colloquia presented to the Media Lab, MIT, Cambridge, MA, February 18, 1998.

Invited half-day tutorial presented to the Industry Affiliate Program, CSLI, Stanford University, Stanford, CA, May 22, 1997.

53. “La computadora es un medio para el desarrollo socio-moral del niño?”

Colloquia presented to the University de Monterrey, Monterrey, Mexico, January 24, 1997.

54. “User Autonomy: Who should control what and when?”

Colloquia presented to the Science-Technology-Studies Program at Colby College, Waterville, ME, November 1, 1996.

Colloquia presented to the Department of Computer Science, Wellesley College, Wellesley, MA, September 25, 1996.

Colloquia presented to the CSLI, Stanford University, August 8, 1996.

55. “Linking the social and the technical in undergraduate computer science education”

Talk presented at the NECUSE conference on the Undergraduate Computer Science Curriculum, Harvard University, Cambridge, MA, January 29, 1995.

56. “Bias in computer systems”

Colloquia presented to the Science-Technology-Studies Program at Colby College, Waterville, ME, September 23, 1994.

Talk presented at XeroxPARC, Menlo Park, CA, May 26, 1994.

11 Reviewer

1. National Research Council
2. National Science Foundation
Panels (1998; 1999; 2002; 2005; 2007; 2008; 2011; 2017); Site visit (2004); Ad hoc proposals
3. The MIT Press
4. *ACM Transactions on Computer-Human Interaction (TOCHI)*
5. *Communications of the ACM*
6. *Ethics and Information Technology*
7. *Human-Computer Interaction*
8. *Interacting with Computers*
9. *International Journal of Human-Computer Interaction*
10. *International Journal of Human-Computer Studies*
11. *Journal of Educational Computing Research*
12. *Science and Engineering Ethics*
13. *Personal Ubiquitous Computing*
14. *The Computer Journal*
15. CHI 2002 (full papers); CHI 2003 (full papers); CHI 2004 (full papers; panels); CHI 2005 (full papers); CHI 2006 (full papers); CHI 2007 (full papers; doctoral consortium); CHI 2008 (full papers, notes, short papers); CHI 2009 (full papers, courses); CHI 2010 (full papers, notes, panels); CHI 2011 (full papers, notes); CHI 2012 (program committee); CHI 2013 (full papers); CHI 2014 (full papers); CHI 2017 (program committee); CHI 2018 (full papers)
16. CSCW (doctoral consortium); CSCW 2018 (full papers)
17. ECSCW 2011 (program committee, full papers, notes)
18. International Joint Conference on Artificial Intelligence (IJCAI)
19. IKTC 2011 (program committee)

20. HRI 2007 (full papers)
21. Ubicomp 2008 (full papers)
22. DIS 2012 (full papers), DIS 2014 (workshops)
23. Technology Bill of Rights, Access to Justice Project

12 Consulting

1. Values in Design Council, Oakland, CA, 2011.
 Funded by the National Science Foundation. Attended Future of the Internet – Security and Trust Meeting, Oakland, CA (May 25 – 26, 2011). Includes 6-page written report.
2. Philips National Lab, Eindhoven, The Netherlands, 2000.
 Provided relevant research literature and formative evaluation of several on-going research projects (with colleagues from CSLI, Stanford University).
3. Human-Computer Interaction Laboratory, University of Maryland, College Park, Maryland, 1995.
 Evaluated an interim prototype from the perspective of human values and social impacts.
4. The San Francisco Foundation, San Francisco, CA, 1986-1987.
 Conducted a year-long ethnographic study and evaluation of elementary computer education.
5. The New Curiosity Shop, Mountain View, CA, 1988.
 Developed interactive science exhibits.
6. Addison-Wesley, Menlo Park, CA, 1986-1987.
 Developed curriculum materials for an on-line database system for high school students.

13 Research Featured in Textbooks

1. Inclusion of examples from the *Envisioning Cards* and significant discussion of value sensitive design in Spiekermann, S. (2015), *Ethical IT Innovation & Design: The Human Use of Machine Beings*. Taylor and Francis Group, LLC.
2. Discussion of value sensitive design methodology in an undergraduate textbook on ethics and engineering. van de Poel, I., and Royakkers, L. (2011). *Ethics, technology, and engineering: An introduction* (pp. 188-9, 190, 195, 338). Sussex, United Kingdom: Wiley-Blackwell.
3. Discussion of value sensitive design methodology in an undergraduate textbook on ethics and technology. Tavani, H. T. (2011). *Ethics and technology: Controversies, questions, and strategies for ethical computing* (third edition) (pp.125-127). Hoboken, NJ: John Wiley and Sons.
4. Inclusion of value sensitive design and case studies in a graduate textbook for human-computer interaction. Te'eni, D., Carey, J., and Zhang, P. (2007). *Human-Computer Interaction: Developing effective organizational information systems* (pp. 395-401). Hoboken, NJ: John Wiley and Sons.

14 Featured Interviews

1. Interviewed by Samuel Mann. “Values: Working on problems that really matter.” Sustainable Lens radio. Running time: 1:06:28 (July 1, 2016). [Link](#)
2. Interviewed by Mary K. Pratt. “IT guru Batya Friedman talks tenets of value-sensitive design.” Tech Target (April 2016).
3. Interviewed (with photograph) by Ari Tye Radetsky. “The perfect piece of toast.” *Science & Spirit*, pp. 14 – 15 (2003, January and February).
4. Interviewed by *Interface Monthly*, Interview of the week, <http://www.InterfaceDaily.com> (1999, March 15).
5. Interviewed (with photograph) in Circuits Section, *The New York Times* pp. D1, D8 (1998, June 25).
6. Interviewed (with photograph) by Mike Higgins. “Computers in art education.” *Computer Graphics World*, pp. 71-72 (1983, April).

15 Evidence of Impact (Other)

1. Value Sensitive Design identified as a core design methodology for Quality of Life alongside of user-centered design, participatory design, and meta design. Referenced in “Exploring design trade-offs for Quality of Life in Human-Centered Design.” By Gerhard Fischer. Cover story for *interactions*, 27-33, January-February, 2018.
2. Value Sensitive Design integral to IEEE Standard under development. The IEEE is developing a new standard called P7000 - Model Process for Addressing Ethical Concerns During System Design. Spearheaded by Sarah Spiekermann from the University of Vienna (I’ve not been involved), value sensitive design is mentioned explicitly: “Expected process requirements include management and engineering view of new IT product development, computer ethics and IT system design, value-sensitive design, and, stakeholder involvement in ethical IT system design.” Typically, standards take 3-5 years to develop and be approved, so this is the beginning of a long process. (2016). [Link](#)
3. Referenced in “Opinion: The dangers of faulty, biased, or malicious algorithms requires independent oversight.” By Ben Shneiderman. *Proceedings of the National Academy of Sciences (PNAS)* 113:48, (13538-13540). (November 29, 2016). [Link](#)
4. Referenced in “There is a blind spot in AI research.” By Kate Crawford and Ryan Calo. *Nature*. (October 13, 2016). [Link](#)
5. Value-sensitive design (VSD). By Margaret Rouse. *TechTarget*. (March 2016). [Link](#)

16 Media on Research Projects (Partial List)

16.1 Television

1. KOMO-4 TV News (2012) [Voices from the Rwanda Tribunal]
2. UW360 (2012) [Voices from the Rwanda Tribunal]
3. *ABC World News Tonight* (with Peter Jennings) (2002)
4. KOMO-4 TV News (2002)
5. KING-5 TV News (2002)
6. KCPQ-13 TV News (2002)
7. *Evening Magazine*, KING 5 Television (2001)

16.2 Newspaper and Magazines

1. *The Daily* (University of Washington) (October 2011) [Voices from the Rwanda Tribunal]
2. *IEEE Computer* (August 2010) [Implantable medical devices]
3. *CNN Tech* (April 2010) [Implantable medical devices]
4. *Columns Magazine* (University of Washington) (December 2009) [Voices from the Rwanda Tribunal]
5. *The New York Times, Science Section* (January 27, 2009) [Voices from the Rwanda Tribunal]
6. Associated Press, International Wire (picked up widely) (January 2009) [Voices from the Rwanda Tribunal]
7. *University Week* (University of Washington) (January 2009) [Voices from the Rwanda Tribunal]
8. *Seattle Magazine* (May 2008)
9. *Science and Spirit* (2003) [Value sensitive design]
10. *New York Times* (Circuits Section) (2002)
11. *USA Today* (2002) [Robotic pets]
12. *Village Voice* (2002) [Robotic pets]
13. *Ha-aretz* (Israel) (2002) [Robotic pets]
14. *Associated Press International News* (2002). [Robotic pets] This story was picked up nationally and internationally, including newspapers in:
 - Seattle, Tacoma, Everett, and Bellevue, Washington
 - Salem, Oregon
 - Vancouver, Canada
 - South Australia
 - Pakistan
15. *United Press International News* (2002)
16. *University of Washington Daily* (2002)
17. *University Week* (University of Washington) (2002)
18. *The Seattle Times* (2001)
19. *Lafayette Journal and Courier* (2001)
20. *The New York Times* (Circuits Section) (1998)

16.3 Radio

1. "Word of Mouth" on New Hampshire Public Radio (2009, February 5)
2. KPLU Radio-88.5 NPR "All Things Considered" (2003)
3. CKNW 980. The Stirling Faux Show. Canada. (2003, February and May)
4. "Future Tense" on Minnesota Public Radio (with Jon Gordon) (2002)
5. KIRO Radio-710 (2002)

16.4 Online

1. *The New York Times, The Opinion Pages* (September 21, 2014) [Social media and value sensitive design]. Available at <http://op-talk.blogs.nytimes.com/2014/09/21/can-we-build-a-safer-internet/>
2. *CNN Tech* (April 2010)
3. *Wired News* (2002)
4. *MSNBC* (2002)

17 Program Committees, Advisory Boards, Editorships, and other Scholarly Service

1. Panelist, informal expert panel on artificial intelligence and machine learning. Presented to Senator Maria Cantwell, at her request. UW Tech Policy Lab, University of Washington, Seattle, WA. March 17, 2018.
2. Chair, SIGCHI Social Impact Award subcommittee. (2017-2020)
3. Guest Editor, Special issue on Value Sensitive Design, *Journal of Ethics and Information Technology*. (2016 – 2018)
4. Invited Reviewer, ACM Future of Computing. (2017)

5. Invited Expert, Government Accounting Office *TECHNOLOGY ASSESSMENT on Internet of Things: Status and Implications of an Increasingly Connected World*. Meeting May 24 – 25, 2016, Washington DC (remote attendance).
6. CHI 2017 Program Committee (AC)
7. Editorial Board, *Journal of Technology Science* (JoTS). (2015 – present)
8. Co-Chair, Computing Research Association (CRA) Committee on Best Practices for Hiring, Promotion and Scholarship (2013 – 2015).
9. External committee member, promotion to full professor for Dr. Martine De Cock, University of Washington, Tacoma (2015).
10. Promotion to full professor review, "outside" referee for a computer scientist at Virginia Tech.
11. External Advisor, Balkan Oral Histories Project, The Hague Institute for Global Justice, The Hague, The Netherlands (January 31, 2013).
12. External Advisor, IT use and computer clubs in conflict and post-conflict settings, Professor Volker Wulf, University of Siegen, Germany (2012 – on-going).
13. External Member, PhD Dissertation Committee for Alina Pommeranz, Technical University of Delft, 2012.
14. Editorial Board of Foundations and Trends in Human Computer Interaction (FnTHCI) (2012 – 2015).
15. CHI 2012 Program Committee (AC).
16. Advisory Board, Framework for Responsible Research and Innovation in ICT (2011 – 2014). Funded by UK EPSRC.
17. Promotion to full professor review, "outside" referee for a computer scientist at Georgia Tech.
18. Organizer (with Gilly Leshed, Carman Neustaedter, Helen Nissenbaum, and Phoebe Sengers) of "Slow Down, You Move Too Fast": *Rethinking the Culture of Busyness and IT*, National Science Foundation funded symposium, Seattle, WA (May 5 – 7, 2011).
19. Faculty Mentor. Doctoral Consortium. iConference 2011. Seattle, WA.
20. IKTC2011 Embracing Indigenous Knowledge Systems In A New Technology Design Paradigm, Program Committee.
21. ECSCW 2011 Program Committee.
22. Participating Consultant, Values in Design Council. Organized by Helen Nissenbaum. 2011.
23. Tenure review, "outside" referee for an information scientist at the University of Texas at Austin.
24. Tenure review, "outside" referee for a human-computer interaction researcher at Carnegie Mellon University.
25. Tenure review, "outside" referee for a computer scientist at the University of Maryland.
26. Tenure review, "outside" referee for a computer scientist at the University of Colorado.
27. Faculty Mentor, Inaugural Research Institute for the Science of Socio-Technical Systems, National Science Foundation funded institute (July 20 – 25, 2008), Ann Arbor, MI.
28. Tenure review, "outside" referee for a computer scientist at the University of California.
29. Tenure review, "outside" referee for a computer scientist at Georgia Tech.
30. Tenure review, "outside" referee for a computer scientist at Virginia Tech.
31. Invited participant in *Creativity and Rationale in Software Design*, National Science Foundation funded workshop (June 15 – 17, 2008), Pennsylvania State University, University Park, PA.
32. Faculty Mentor, Doctoral Consortium, CHI 2007.
33. Program Committee, Creativity & Cognition Conference, 2007.
34. Participant in *Social Informatics Planning Meeting*, National Science Foundation funded workshop (June 23, 2006), Stanford, CA.
35. Organizer (with Alan Borning) of *Value-Sensitive Design: Cultivating Research and Community*, National Science Foundation funded workshop (September 10-12, 2000), Seattle, WA.
36. Advisory Board, *Curriculum Based Resources for Teaching Ethical and Social Issues in Computing*. Funded by the National Science Foundation (DUE-9972280); Charles Huff, Principal Investigator (1999 – present).
37. Participant in *Social Norms, Personal Values and the Use of Interactive Information Technologies by Young People*, National Science Foundation funded workshop (September 17 – 18, 1999), Eugene, OR.
38. Program Committee, ACM Conference on Universal Usability: Solutions, Systems, and Methods (2000).

39. Editorial Board, *Ethics and Information Technology* (1998 - present).
40. Program Committee, Participatory Design Conference (1998; 2000).
41. Associate Editor, *The Information Society*, (1995-1997).
42. Member, Steering Committee, Project ImpactCS funded by the National Science Foundation (1994-96).
43. Tenure review, "outside" referee for a computer scientist at the University of California.
44. Program Committee, conference on Directions and Implications of Advanced Computing (DIAC) (1992).
45. Discussant. "Issues for an ethical code." Panel conducted at the ACM conference on Computers and the Quality of Life, Washington, DC (1990, September).
46. Symposium Co-organizer (with Peter H. Kahn Jr.). "Educating for moral responsibility across societal contexts." Symposium conducted at the annual meeting of the American Educational Research Association, Boston (1990, April).
47. Panelist. "The morals and ethics of hacking." Association for Computing Machinery. Menlo Park, CA: Stanford Research Institute (1985, April).
48. Editor (with Twila Slesnick) for computer section, *Curriculum Review* (1983).

18 Public Discourse and Service

18.1 Diverse Voices

1. *Washington State Access to Justice Technology Principles*. (2018). Corresponding Author: Sart Rowe, Washington State Access to Justice Technology Principles Committee.
2. *How Governments Can Promote Automated Driving*. (2016). Corresponding Author: Bryant Walker Smith, University of South Carolina.
3. *Augmented Reality: A Technology and Policy Primer*. (2015). Corresponding Author: Ryan Calo, UW Tech Policy Lab, University of Washington.

18.2 "The Conversation" Community Public Radio

1. KTRT Radio-97.5 FM "Time by Design" Pilot segment. (2017, October)

19 PhD Student Advisees and Trainees

19.1 Advisor

1. Stephanie Ballard (current PhD student)
2. Ian King (current PhD student)
3. Nicholas Logler (current PhD student)
4. Daisy Yoo (2018; first position – post-doc Aarhus University)
5. Mary Derthick (ABD 2017; co-advisor with Charlotte Lee, HCDE)
6. Lisa P. Nathan (2009; first position – assistant professor, University of British Columbia)
7. Nathan Freier (2007; first position – assistant professor, Rensselaer Polytechnic Institute)
8. Janet Davis (2006; co-advisor Alan Borning, CSE; first position – assistant professor, Grinnell College)

19.2 Committee Member

1. Michael Katell (current PhD student)
2. Katya Yefimova (current PhD student)
3. Bryce Newell (2015)
4. Tamara Denning (2014)
5. Jill Woelfer (2014)
6. Luis Fernando Baron (2013)
7. Alina Pommeranz (2012; TU Delft)

19.3 Post-doc Trainees (visitors to Value Sensitive Design Research Lab)

1. Maaïke Harbers, PhD., September – November 2015 (TU Delft)
2. Aimee van Wynsberghe, PhD., January – March 2015 (University of Twente)