

ANNE E. BOWSER

Curriculum Vitae: December 2014

<http://www.annebowser.com>

Woodrow Wilson International
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University of Maryland iSchool and
Human-Computer Interaction Lab
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EDUCATION

- | | |
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| Ph.D. Candidate, Library and Information Science | 2011- Present |
| <i>University of Maryland iSchool, College Park, MD, USA</i> | |
| Advisor: Dr. Jennifer Preece | |
| GPA: 4.0 | |
| Masters Degree in Information Management (MIM) | 2009-2011 |
| <i>University of Maryland, College Park, MD, USA</i> | |
| GPA: 3.83 | |
| Bachelors Degree in Psychology and German Literature | 2004-2008 |
| <i>Guilford College, Greensboro, NC</i> | |
| GPA: 3.52 | |

CURRENT APPOINTMENTS

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| Woodrow Wilson International Center for Scholars | 2012-present |
| <i>Program Associate / Researcher, Science and Technology Innovation Program (STIP)</i> | |
| <ul style="list-style-type: none">• Manage the grant Commons Lab: Innovative Governance in the Age of Mass Collaboration, awarded by the SLOAN Foundation, \$600,000.• Manage the development of a mapped inventory of federal citizen science and crowdsourcing, to be populated with 200+ programs from 17 federal agencies.• Manage the publication of 3 peer reviewed reports on citizen science including an analysis of the legal barriers, an evaluation of agency privacy and liability concerns, and a collection of European case studies.• Support the development of a program to match federal agencies experiencing research and technology challenges with public organizations, including maker, hacker, DIY, and citizen science communities.• Supervise a Graduate Research Assistant. | |

University of Maryland

2011-present

Graduate Student Researcher, Privacy in Citizen Science: Emerging Considerations for Research and Practice (2014-Present)

- Co-PI on NSF Award SES 1450625.
- Conduct interviews with citizen science practitioners and volunteers to examine privacy concerns using Nissenbaum's framework of contextual integrity.
- Host focus groups to inform best practice guidelines for supporting privacy and citizen science.

Graduate Student Researcher, Biotracker- Melding Human and Machine Intelligence to Create Large-scale Collaborative Systems (2011-2014)

- Funded by NSF Award SES 0968546.
- Conducted requirements analysis and designed low-fidelity prototypes for Floracaching, a gamified mobile app for citizen science.
- Project manager for the development and evaluation of the Floracaching app.
- Supervised undergraduate research assistant.

PUBLICATIONS

REFERRED JOURNAL ARTICLES

Himmelboim, I., Hansen, D., & Bowser, A. (2012). Playing in the same Twitter network: Political information seeking in the 2010 US Gubernatorial Elections. In *Information, Communication and Society*.
<http://www.tandfonline.com/doi/abs/10.1080/1369118X.2012.706316>

REFERRED CONFERENCE PUBLICATIONS

Bowser, A., Haimson, O., Melcer, E. & Churchill, E. F. (2015). On Vintage Values: The Experience of Secondhand Fashion Reacquisition. To be presented at *CHI 2015*. Seoul, South Korea, April 18-23, 2015.

Bowser, A., Hansen, D., He, Y., Boston, C., Gunnell, L., Reid, M. & Preece, J. (2013). Using gamification to inspire new citizen science volunteers. In *Proceedings of Gamification 2013*. Waterloo, Canada, 2-4 October, 2013.

Bowser, A., Hansen, D., Raphael, J., Reid, M., He, Y., Rotman, D., & Preece, J. (2013). Prototyping in PLACE: A scalable approach to developing location-based apps and games. In *Proceedings of CHI 2013*. Paris, France, 27 April- 2 May, 2013.

Bowser, A., He, Y., Rotman, D., Preece, J., Hansen, D., Boston, C., & Hammock, J. (2014). Motivating participation in citizen science. In *Proc. Of the European Conference on Social Media*, Brighton, United Kingdom, 10-11 July, 2014.

Bowser, A., Shilton, K., Preece, J. (2015). Privacy in Citizen Science: An Emerging Concern for Research & Practice. To be presented at *Citizen Science 2015*. San Jose, CA, 11-12 February, 2015.

Haimson, O., Bowser, A., Melcer, E. & Churchill, E. F. (2015). Online Inspiration and Exploration for Identity Reinvention. To be presented at *CHI 2015*. Seoul, South Korea, April 18-23, 2015.

Rotman, D., Hammock, J., Preece, J., Hansen, D., Boston, C. Bowser, A. & He, Y. (2014). Motivations affecting initial and long-term participation in citizen science. In *Proceedings of iConference 2014*. Berlin, Germany, 4-7 March, 2014.

REFERRED WORKSHOP PRESENTATIONS AND PANEL DISCUSSIONS

Ashktarb, Z., Bowser, A. & Sheyte, P. (2014). 'How do I get back to my home screen?' Educating senior citizens on tablet usage. Paper presented at the Developing a Living Curriculum to Support a Global Community Workshop, *CHI 2014*, Toronto, CA.

Bowser, A., Hansen, D. & Preece, J. (2013). Gamifying Citizen Science. Paper presented at the Gamification Workshop, *CHI 2013*, Paris, France.

Bowser, A., Hansen, D., Rotman, D. & Preece, J. (2012). Low fidelity prototyping for social, location-based games. Paper presented at the Mixed Reality Games Workshop, *CSCW 2012*, Seattle, WA.

Bowser, A. & Tsai, J. (2015). Evaluating *Irrelevant Search*: A case study for internet ethics education. To be presented at the CSCW 2015 Workshop on Ethics for Studying Sociotechnical Systems in a Big Data World. Vancouver, Canada, 14-18 March, 2015.

Cooper, C., Shanley, L., Bowser, A. Lang, D., Menniner, H., Katti, M., Sternwedel, J. & Quigley, D. (2015). Ethical dimensions of citizen science research. Panel to be held at *Citizen Science 2015*. San Jose, CA, 11-12 February, 2015.

Wiggins, A., Crowston, C., Bowser, A., Vitos, M., Haklay, M., Germonprez, M., Hammock, J., He, Y., Sheppard, S. A., Law, E., Lynn, S., Preece, J., Oesterlund, C., Jennet, C. & Lagoze, C. (2015). Human-centered technologies for citizen science. Panel to be held at *Citizen Science 2015*. San Jose, CA, 11-12 February, 2015.

REFERRED CONFERENCE POSTERS

- Bowser, A., Hansen, D., Preece, J., He, Y., Boston, C. & Hammock, J. (2014). Gamifying citizen science: A study of two user groups. *CSCW 2014*. Baltimore, Maryland, 15-20 February, 2014.
- He, Y., Preece, J., Boston, C., Bowser, A., Hansen, D. & Hammock, J. (2014). The effects of individualized feedback on college students' contributions to citizen science. *CSCW 2014*. Baltimore, Maryland, 15-20 February, 2014.
- Rotman, D., Preece, J., Hammock, J., Hansen, D., Bowser, A. & He, Y. (2014). Does motivation in citizen science change with time and culture? *CSCW 2014*. Baltimore, Maryland, 15-20 February, 2014.

OTHER PUBLICATIONS

- Bowser, A. & Shanley, L. (2013). *New Visions In Citizen Science*. Woodrow Wilson International Center for Scholars: Washington, DC.
- Bowser, A. & Wiggins, A. (2013). Data Policies for Public Participation in Scientific Research: A Primer. DataONE: Albuquerque, NM.
- Bowser, A. & Wiggins, A. (2015). Legal, Policy, and Ethical Considerations of Citizen Science. In Lepczyk, C., Vargo, T. & Boyle, O., Eds., *Citizen Science in Ecology and Conservation: A Practitioner's Guide*. Berkeley: University of California Press.
- Bowser, A., Wiggins, A., Shanley, L., Preece, J. & Henderson, S. (2014). Sharing data while protecting privacy in citizen science. *ACM Interactions*, January-February 2014.
- Churchill, E., Bowser, A. & Preece, J. (2013). Teaching and Learning Human-Computer Interaction: Past, Present, and Future. *ACM Interactions*, March-April 2013.

FUNDING

CNS-SATC EAGER (\$179,548)

Privacy in Citizen Science: An Emerging Concern for Research and Practice
Co-Principal Investigators: Katie Shilton, Anne Bowser, Jennifer Preece

NSF TRAVEL AWARD (\$2,000)

To attend the 2014 iConference Doctoral Colloquium in Berlin, Germany.

RECENT RESEARCH EXPERIENCE

ACM SIG CHI

(2011-2014)

Student Researcher, SIG CHI Project on Human-Computer Interaction Education

Studied key trends, topics, challenges, and futures for global HCI Education.

- Iteratively developed and distributed a survey with 700+ participants, translated into 5 languages.
- Conducted 50+ follow-up interviews.
- Hosted 3 workshops and focus groups at key conferences.
- Informed the ACM Computer Science 2013 Curriculum Guidelines for Undergraduate Degree Programs in Computer Science.
- Seeded a “living curriculum” of crowdsourced educational resources published through the ACM SIG CHI website.

Woodrow Wilson International Center for Scholars

(2013- 2014)

Research Assistant, Science and Technology Innovation Program (STIP)

Conducted research and policy analysis to support citizen science and other forms of open innovation.

- Analyzed key accelerators and barriers to conducting federal citizen science and open innovation.
- Conducted requirements analysis and designed low-fidelity prototypes for a mapped inventory of federal citizen science and crowdsourcing.
- Helped found a Federal Community of Practice on Citizen Science and Crowdsourcing (FCP-CCS) with representatives from 17 agencies.

Microsoft Research

(August- November 2014)

Intern Research Scientist, Microsoft Research

Supported the design of an internal research ethics program.

- Project manager for the development of an online platform for research submission and peer evaluation, intended as Microsoft’s internal Research Review Board (REB).
- Evaluated the level of REB compliance with DHHS policy governing ethical human subjects research.
- Conducted extensive user testing to inform REB development.
- Designed and evaluated a research ethics training course customized to the needs of industry web researchers, taken by all new hires.
- Provided individual ethics counseling.

Ebay Research Labs

(May-August 2014)

Intern Research Scientist, Human-Computer Interaction

Contributed to the research agenda, "Putting the Person into Personalization."

- Conducted ethnographic user research with 13 secondhand fashion shoppers in the San Francisco Bay area
- Created actionable personas based on exploration of recirculation.
- Informed the development of two prototype applications to support online secondhand fashion shoppers.

DataONE

(Summer 2013)

Intern, sponsored by DataONE and hosted by the Cornell Lab of Ornithology

Analyzed data policy for projects involving the public in scientific research.

- Wrote best practice guidelines on privacy policies, legal policies, terms of use, and user agreements published through DataONE and the Cornell Lab of Ornithology.

OTHER PROFESSIONAL ACTIVITIES

INVITED PRESENTATIONS

Bowser, A., Hansen, D., Preece, J., He, Y. & Boston, C. Of natures and gamers:

Lessons from designing a mobile app for citizen science. Presented at the University of Maryland's 30th annual HCIL Symposium. College Park, MD, 26 May, 2013.

Bowser, A., Hansen, D., He, Y., Rotman, D & Preece, J. Low-fidelity prototyping for location-based social games. Presented at the University of Maryland's 29th annual HCIL Symposium. College Park, MD, 25 May, 2012.

Shanley, L. & Bowser, A. (2014). Citizen Science: What's Policy Got to Do with It? Presented at the Citizen Cyberscience Summit. London, England, 20 February, 2014.

Shanley, L. & Bowser, A. (2013). New visions for citizen science. Presented to the White House National Science and Technology Council - U.S. Group on Earth Observations. Washington, DC, 14 November, 2013.

Tyson, E. & Bowser, A. (2014). Supporting a federal community of citizen science. Presented to the Bureau of Land Management Citizen Science Working Group. Washington, DC, 10 November, 2014.

HOSTED WORKSHOPS

Churchill, E., Preece, J. & Bowser, A. (2014). Developing a living HCI curriculum to support a global community. To be hosted at CHI '14. Toronto, Canada, 27 April 2014.

Hammock, J., Preece, J., Jacobs, D., Boston, C., Bowser, A., & He, Y. (2013). Citizen Science: Where Practice Meets Research. 30th Annual Human-Computer Interaction Lab Symposium. College Park, MD, 23 May, 2013.

SERVICE TO COMMUNITY

Steering Committee: Citizen Science Association (2014- present)
Assist a nascent U.S. Citizen Science Association, to be established as a 501(c)3 in 2015. Research and select governance models; write bylaws; attend biannual meetings of the interim board.

Instructor: iPads 101 (2013)
Designed and implemented "iPads 101," a four-course introduction to iPads offered to 15 visitors at the Holiday Park Senior Center in Wheaton, Maryland.

Consultant: Citizen Science Data Policies (2013- present)
Provide complimentary assistance to citizen science projects creating or updating privacy policies, legal policies, and terms of use.

Faculty Search Committee Member: University of Maryland iSchool (2013-2014)
Fill vacancy for a tenure-track Assistant Professor.

Journal Reviewer: Human Computation (2012-present)
Conference Reviewer; CHI, CSCW, HICSS, Mobile HCI