# JANET DAVIS

Associate Professor and Microsoft Chair of Computer Science

Whitman College
345 Boyer Avenue
Walla Walla, WA 99362

(509) 527–5758
davisj@whitman.edu
http://cs.whitman.edu/~davisj/
http://blogs.whitman.edu/countingfromzero/

## EDUCATION

**Ph.D., Computer Science and Engineering, University of Washington, 2006.**
*Dissertation:* Engaging Citizens and Informing Decision-Making with an Urban Simulation System: A Value Sensitive Design Approach
*Advisors:* Alan Borning and Batya Friedman

**M.S., Computer Science and Engineering, University of Washington, 2001.**
*Thesis:* Remote Event Passing: A Communication Mechanism for Pervasive Computing
*Committee:* Tom Anderson and Steve Gribble

**B.S., Computer Science, Harvey Mudd College, 1999.**
*Graduated with High Distinction, Honors in Computer Science, Honors in Humanities and Social Sciences, Computer Science Class of '94 (Founding Class) Award, Computer Science Clinic Award.*

## PROFESSIONAL EXPERIENCE

**Whitman College**

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|---|---|
| Microsoft Chair of Computer Science | November 2017–present |
| Associate Professor of Computer Science | August 2015–present |

**Grinnell College**

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|---|---|
| Director, Wilson Progam in Enterprise and Leadership | August 2014–July 2015 |
| Associate Professor of Computer Science | May 2012–July 2015 |
| Assistant Professor of Computer Science | August 2006–April 2012 |

**University of Washington**

Research Assistant, Center for Urban Simulation and Policy Analysis and Value Sensitive Design Lab  2003–2006
*Advisors*: Alan Borning and Batya Friedman

Research Assistant, Computer Networks  2001–2002
*Advisors*: Tom Anderson and David Wetherall

Research Assistant, one.world  1999–2001
*Advisor*: Tom Anderson; *Project lead*: Robert Grimm

Instructor  Winter 2004

Teaching Assistant  Autumn 2000, Autumn 2001, Winter 2002, Autumn 2002, Spring 2005

**Institute for Pure and Applied Mathematics, University of California, Los Angeles**

Visiting Scholar, Large Scale Communication Networks Program  Spring 2002
*Organizers:* David Donoho, John Doyle, Deborah Estrin, Kristina Lerman, and Walter Willinger

**Harvey Mudd College**

Team Leader, Nuera Communications Clinic  1998–1999
*Advisor:* Ran Libeskind-Hadas

Undergraduate Researcher, Routing in Wormhole Networks  Summer 1998
*Advisor:* Ran Libeskind-Hadas

## TEACHING

**Computer Science, Whitman College**

| | |
|---|---|
| Introduction to Computational Problem Solving (CS 167) | 2016–2017, 2021–2022 |
| Computer Systems Fundamentals (CS 210) | Spring 2016, 2019 |

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|---|---|
| Discrete Math & Functional Programming (CS/MATH 220) | Fall 2016–2018, 2020–2022 |
| Human-Computer Interaction (CS 267) | Fall 2015, 2018, 2020 |
| ST: Computer Networks (CS 301) | Spring 2021 |
| ST: Databases with Web Applications (CS 301) | Fall 2021 |
| Theory of Computation (CS 320) | Fall 2022 |
| Software Design (CS 370) | Spring 2017, 2019, 2021, 2022 |
| CS Capstone (CS 495/6/7/8) | 2018–2019 |

**Computer Science, Grinnell College**

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|---|---|
| The Digital Age (CSC 105) | Spring 2012, 2013 |
| Functional Problem Solving (CSC 151) | Fall 2006 – Spring 2009, Fall 2010 – Spring 2012, Fall 2013 |
| Computer Organization and Architecture (CSC 211) | Fall 2011, 2013 |
| Operating Systems & Parallel Algorithms (CSC 213) | Fall 2006, Fall 2010 |
| Software Design (CSC 223) | Fall 2007 |
| Human-Computer Interaction (CSC 295, 232) | Spring 2008, 2011, 2015 |
| Software Development Principles and Practices (CSC 321, 2 credits) | Fall 2014, Spring 2015 |
| Team Software Development for Community Organizations (CSC 322, 2 credits) | Fall 2014, Spring 2015 |
| Databases and Web Application Development (CSC 325) | Fall 2012 |
| Computer Networks (CSC 364) | Spring 2007, 2009, 2012 |
| Special Topic: Value Sensitive Design (CSC/TEC 295) | Spring 2013 |
| Special Topic: Health Care and Computing (CSC 295, 1 credit) | Fall 2011 |
| Special Topic: Socio-Technical Issues in Computer Networks (CSC 295, 1 credit) | Fall 2010 |

**Interdisciplinary Courses, Grinnell College**

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|---|---|
| Evolution of Technology (TEC 154) | Spring 2007, 2009, 2011 |

**First-Year Tutorials, Grinnell College**

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|---|---|
| The Mobile Phone and Human Values | Fall 2012 |
| Technology and Place: Transportation, Communication, Computation | Fall 2008 |

**Undergraduate Computer Science, University of Washington**

| | |
|---|---|
| Introduction to Computer-Communication Networks (CSE/EE 461) | |
|     Instructor | Winter 2004 |
|     Teaching Assistant | Autumn 2001, Winter 2002 |
| Introduction to Computer Programming (CSE 142), Teaching Assistant | Autumn 2000 |

**Graduate Computer Science, University of Washington**

| | |
|---|---|
| Advanced Topics in Human-Computer Interaction (CSE 510), Teaching Assistant | Spring 2005 |
| Computer Communication and Networks (CSE 561), Teaching Assistant | Autumn 2002 |

PROFESSIONAL SOCIETIES

| | |
|---|---|
| Liberal Arts Computer Science (LACS) Consortium | 2015–present |
| Association for Computing Machinery (ACM) | 2006–present |
|     Senior Member | 2013–present |
|     SIGCSE Committee on Computing Education in Liberal Arts Colleges | |
|     ACM Special Interest Groups on Computer Science Education (SIGCSE), Computers and Society (SIGCAS), Computer-Human Interaction (SIGCHI), | |
| IEEE Computer Society | 2007–present |

## GRANTS AND FELLOWSHIPS

Pedagogical Inquiry Grant with Justin Lincoln (Art).
"Developing Digital Studies and Experience Design at Whitman College." Summer 2021

Perry Student-Faculty Research Grant with Ahmed Elsayed '23, Kalilou Ali Khadiri '22, Dylan Wu '21,
and Zoë Hill '21. "*Reading for Gender Bias*: Implementing and refining a user interface." Summer 2020

Perry Student-Faculty Research Grant with Buyaki Nyatichi '20. "*Just Not Sorry*: Background research." Summer 2019

Non-Profit FOSS Institute (NPFI) Grant: "BMAC Warehouse Database, Computer Science Capstone." 2018–19

Perry Student-Faculty Research Grant with Andrew Harvey '20. "Speak Like Obama:
A Behavior Change Support System for Reducing Disfluencies in Reading Prepared Texts." Summer 2017

Janice M. and Kim T. Abraham Student-Faculty Research Grant, with Emma Twersky '17. "Beyond Spellcheck: How
Technology Influences Language Choices." Summer 2016

Grinnell College Innovation Grant. "Alumni Engagement Across the Curriculum." 2014–2017
Mark Peltz (proposer), Jayn Chaney, Janet Davis, Karla Erickson, and Justin Thomas (co-proposers).

Grinnell College Harris Fellowship. "Towards Participatory Design of Persuasive Technology." 2009–2010

National Science Foundation Course, Curriculum, and Laboratory Improvement (CCLI) grant. 2007–2011
"Reformulating Media Computation with Functional Programming, Scripting, and Design Principles."
Samuel A. Rebelsky (PI), Janet Davis (co-PI), and Matthew Kluber (co-PI).

National Science Foundation Graduate Fellowship 1999–2003

National Merit Scholarship 1995–1999


## SERVICE TO THE SCHOLARLY AND PROFESSIONAL COMMUNITY

Member, Computing Research Association Committee on Education (CRA-E) 2021–present

Facilitator, SIGCSE Committee on Computing Education in Liberal Arts Colleges 2019–present

Liberal Arts Computer Science (LACS) Consortium

Meeting Chair 2018, 2021

Meeting Host 2017

Meeting Secretary 2016

External reviewer for 1-2 tenure & promotion cases annually 2016–2017, 2019–2022

Reviewer for four published textbooks 2008, 2011, 2018, 2020

Reviewer, SIGCSE Technical Symposium on Computer Science Education 2008–2017, 2021

Consortium for Computing Sciences in Colleges, Northwestern Regional Conference (CCSC-NW)

Reviewer 2016–2018

Program Chair 2017

Partners Chair 2016

Program Committee, Conference on Persuasive Technology 2010, 2015–2017, 2019–2022

Reviewer, ACM Conference on Human Factors in Computing Systems 2007–2014, 2016–2017

Reviewer, ACM Conference on Computer Supported Cooperative Work and Social Computing 2016

ACM SIGCHI U.S. Public Policy Committee 2008–2015

Chair 2010–2013

Ad-hoc reviewer, NSF IUSE 2014

Organizing Committee, Computing Research Association Chairs' Summit at Snowbird 2014

Program Workshop, AIT-Budapest Study Abroad in Computer Science and IT Entrepreneurship 2014

Advisory Board, Whitman College Computer Science 2014

Reviewer, Participatory Design Conference 2014

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|---|---|
| Selection Committee, CRA Outstanding Undergraduate Researchers Awards | 2013 |
| Associate Editor, Persuasive Systems Track, European Conference on Information Systems | 2013 |
| NSF Grant Program Review Panel | 2010 |

Reviewer for the *Transactions on Behavior and Information Technology* (2018–19; 2021–22); *Journal of Science and Engineering Ethics* (2020); *ACM Inroads* (2018); *Communications of the ACM* (2018); *Journal of Information, Communication & Ethics in Society* (2018); *Interacting with Computers* (2015, 2016); *Journal of the Association for Information Science and Technology* (2015); *PLOS ONE* (2014); *Philosophy & Technology* (2011); *Transactions on Computer-Human Interaction* (2010); *IEEE Computer* (2009); *IEEE Pervasive Computing* (2009).

## SERVICE TO WHITMAN COLLEGE

### Service to Academic Programs and Departments

| | |
|---|---|
| Co-leader, Working Group on Human-Centered Design | 2021–present |
| Chair, Department of Computer Science | 2018–2019, 2020–present |
| Director, Computer Science Program | 2015–2017 |
| Chair, CS Search Committee | 2015–2016, 2019–2020, 2021-2022 |

### Institutional Service

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|---|---|
| Secretary of the Faculty (elected position) | 2021–2023 |
| Academic Information Technology Advisory Group | |
|     Elected member | 2020-2021 |
|     Sabbatical replacement | Spring 2019 |
|     Non-voting member | 2015–2017 |
| General Studies Committee (elected member) | Fall 2017 |
| Faculty Mentoring Program (participant) | 2015–2016 |

## SERVICE TO GRINNELL COLLEGE

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|---|---|
| Wilson Program Committee | 2013–2015 |
|     Co-Chair | 2014–2015 |
| Co-organizer, TEDxGrinnell | 2014–2015 |
| Faculty sponsor, Grinnell College Innovation Grant for the student Appdev Team | 2014–2015 |
| HHMI Grant Committee | 2012–2015 |
| Information Technology Assessment and Planning Committee | 2010–2015 |
| Technology Studies Concentration Committee | 2007–2015 |
|     Chair | 2008–2009, 2010–2014 |
| Co-leader for Post-Graduate Success, Strategic Plan Implementation | 2012–2015 |
| Strategic Planning Steering Committee and Post-Graduate Success Working Group | 2011–2012 |
| Computer Science Representative, General Science Committee | 2010–2013 |
|     Chair | 2012–2013 |
| Scholarship Selection Committee | 2010–2012 |
| Academic Advising Technology Working Group | 2010–2011 |
| Web Audit Committee | 2010–2011 |
| Eco-Campus Committee | 2007–2009 |
|     Chair | 2008–2009 |
| Institutional Review Board | 2008–2009 |

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|---|---|
| Gender and Women's Studies Concentration Committee | 2007–2009 |
| Social Coordinator, Early Career Faculty Group | 2007–2008 |

## SERVICE TO DIVERSITY

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|---|---|
| Scholarships reviewer, *Richard Tapia Celebration of Diversity in Computing* | 2020–2021 |
| Co-organizer, Whitman faculty-staff reading group on Anthony Abraham Jack's *The Privileged Poor* | June 2019 |
| Participant, Whitman Mental Health Workshop | May 2019 |
| Participant, Whitman Seminar on Inclusive Teaching | May 2017 |
| Participant, Whitman Seminar on Supporting First Generation Students | May 2016 |
| Organized student travel to the *Richard Tapia Celebration of Diversity in Computing* | September 2016 |
| Panelist, *Mission Creek Innovation Conference* | April 2015 |
| Scholarships reviewer, *Grace Hopper Celebration of Women in Computing* | 2009–2014 |
| Led Liberal Arts Colleges Association for Faculty Inclusion (LACAFI) sponsorship of the *Grace Hopper Celebration of Women in Computing* | 2011, 2013, 2014 |
| Organized student travel to the the *Grace Hopper Celebration of Women in Computing* | 2009, 2010, 2011, 2013, 2014 |
| Co-Director, Grinnell Science Project | 2007, 2010, 2011 |

## PROFESSIONAL DEVELOPMENT (SINCE 2006)

| | |
|---|---|
| Liberal Arts Computer Science (LACS) Consortium annual meeting | Summer 2013, 2015–2021 |
| Math-in-CS Virtual Workshop | July 2020 |
| CRA Virtual Conference | July 2020 |
| Department Chairs Roundtable, SIGCSE 2019, Minneapolis, MN | February 2019 |
| CRA-W Career Mentoring Workshop, Phoenix, AZ | November 2018 |
| Cross-Disciplinary Teaching and Learning Initiative: The Moving Image, Whitman College | June–July 2018 |
| Professor's Open Source Software Experience (POSSE) Workshop, Drexel University | June 2016 |
| Designing the Digital Future: A Human-Centered Approach to Informatics, Obermann Working Symposium, University of Iowa | November 2014 |
| Workshop on Teaching with Technology and Technology Studies, Grinnell College – Co-leader | August 2014 |
| Computing Research Association Chairs' Summit, Snowbird, UT | July 2014 |
| Workshop on Metacognition, Grinnell College | July 2013 |
| Workshop on Alumni-Enriched Courses, Grinnell College | May 2013 |
| Workshop for Tutorial Instructors, Grinnell College | July 2012 |
| Intermediate Science Workshop, Grinnell College | June 2012 |
| Workshop on Engineering Projects in Community Service (EPICS), Purdue University | May 2012 |
| Workshop on Policy Studies & Interdisciplinarity, Grinnell College | June 2011 |
| Workshop on Food Choices, Grinnell College | July 2010 |
| Workshop on Concepts of Power, Grinnell College | May 2010 |
| National Science Foundation Day, University of Iowa | October 2009 |
| Portfolio Project, Grinnell College | May 2009 |
| CRA-W Career Mentoring Workshop, Chattanooga, TN | March 2009 |
| Written and Oral Communication in the Tutorial, Grinnell College | June 2008 |
| Liberal Arts in the $21^{st}$ Century, Grinnell College | May 2007 |
| Workshop on Technology Studies, Grinnell College | May 2007 |

Workshop on Interdisciplinary Teaching, Grinnell College     August 2006

New Faculty Workshop, Midstates Science and Mathematics Consortium     July 2006, July 2007

## PEER-REVIEWED, ARCHIVAL PUBLICATIONS

Janet Davis, Andrea Tartaro, and Tammy VanDeGrift. "Demystifying the Tenure-Track Faculty Search in Computer Science at Primarily Undergraduate Institutions." In *Proceedings of the 52nd ACM Annual Technical Symposium on Computer Science Education (SIGCSE 2021)*, Virtual, March 13-21, 2021. (34% acceptance rate.)

Janet Davis and Buyaki Nyatichi*. "Values and Politics of a Behavior Change Support System." In *Societal Challenges in the Smart Society (ETHICOMP 2020)*, ed. Mario Arias-Oliva, Jorge Pelegrin-Borondo, Kiyoshi Murata, and Ana Maria Lara Palma, pp. 299-313. Virtual, June 30 – July 2, 2020. Available at `https://dialnet.unirioja.es/servlet/libro?codigo=769585`.

Janet Davis and Samuel A. Rebelsky. "Developing Soft and Technical Skills Through Multi-Semester, Remotely Mentored, Community-Service Projects." In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education (SIGCSE '19)*, Minneapolis, MN, USA, February 27-March 2, 2019. (32% acceptance rate. **Second Best Paper - Experience Reports and Tools.**)

Janet Davis and Sandra Burri Gram-Hansen. "Participation in Design for Sustainability." M. Hazas & L. Nathan (Eds.), *Digital Technology and Sustainability: Embracing the Paradox*, 166-178. Routledge Press, 2018.

Eric Hsu*, Janet Davis, and Kate Jackson. "Using Spreadsheet Software to Create a Multi-access Key for Central and Western African Snakes." *Herpetological Review* 48(4), 747-756, 2017.

Janet Davis and Christine Alvarado. "Supporting Undergraduates to Make the Most of Conferences." *ACM Inroads* 8(3): 32-35, September 2017.

Emma Twersky* and Janet Davis. "Don't Say That! An Analysis of Persuasive Systems in the Wild." In P.W. de Vries, H. Oinas-Kukkonen, L. Siemons, N. Beerlage-de Jong, L. van Gemert-Pijnen (Eds.), *Proceedings of the 12th International Conference on Persuasive Technology* (PERSUASIVE 2017), LNCS 10171, Springer, 215-226. Amsterdam, The Netherlands, April 4-6, 2017. (27% acceptance rate.)

Jonathan Lazar, Julio Abascal, Simone Barbosa, Jeremy Barksdale, Batya Friedman, Jens Grossklags, Jan Gulliksen, Jeff Johnson, Tom McEwan, Loïc Martínez-Normand, Wibke Michalk, Janice Tsai, Gerrit van der Veer, Hans von Axelson, Ake Walldius, Gill Whitney, Marco Winckler, Volker Wulf, Elizabeth F. Churchill, Lorrie Cranor, Janet Davis, Alan Hedge, Harry Hochheiser, Juan Pablo Hourcade, Clayton Lewis, Lisa Nathan, Fabio Paterno, Blake Reid, Whitney Quesenbery, Ted Selker, and Brian Wentz. "Human-Computer Interaction and International Public Policy-making: A Framework for Understanding and Taking Future Actions." *Foundations and Trends® Human–Computer Interaction*: Vol. 9: No. 2, pp 69 -149, May 2016. http://dx.doi.org/10.1561/1100000062.

Bran Knowles and Janet Davis. "Is Sustainability a Special Case for Persuasion?" *Interacting with Computers*, February 2016. doi: 10.1093/iwc/iww005.

Janet Davis and Lisa P. Nathan. "Value Sensitive Design: Applications, Adaptations, and Critiques." I. van de Poel, P. Vermaas, & J. van den Hoven (Eds.), *Ethics and Values in Technological Design*, Springer Reference Works, January 2015.

Nediyana Daskalova†, Nathalie Ford†, Ann Hu†, Kyle Moorehead†, Benjamin Wagnon†, and Janet Davis. "Informing Design of Suggestion and Self-Monitoring Tools through Participatory Experience Prototypes." In A. Spagnolli, L. Chittaro, L. Gamberini (Eds.) *Proceedings of the 9th International Conference on Persuasive Technology* (PERSUASIVE 2014), LNCS 8462, Springer, 68-79. Padua, Italy, May 21-23, 2014. (36% acceptance rate.)

Samuel A. Rebelsky, Janet Davis, and Jerod Weinman. "Building Knowledge and Confidence with Mediascripting - A Successful Interdisciplinary Approach to CS1." In *Proceedings of the 2013 SIGCSE Annual Technical Symposium on Computer Science Education*, Denver, Colorado, March 6-9, 2013. (38% acceptance rate.)

Janet Davis. "Early Experiences with Participation in Persuasive Technology Design." In *Proceedings of the 12th Participatory Design Conference (PDC 2012)*, Roskilde, Denmark, August 16, 2012. (21% acceptance rate.)

Chase Felker†, Radka Slamova†, and Janet Davis. "Integrating UX + Scrum in an Undergraduate Software Development Project." In *The 43rd ACM Technical Symposium on Computer Science Education (SIGCSE 2012)*, Raliegh, North

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*Whitman student or alumna/us.

†Grinnell student or alumna/us.

Carolina, USA, March 2, 2012. (35% acceptance rate.)

Janet Davis and Henry Walker. "Incorporating Social Issues of Computing in a Small, Liberal Arts College: A Case Study." In *Proceedings of the 42nd ACM Technical Symposium on Computer Science Education (SIGCSE 2011)*, Dallas, Texas, USA, March 10, 2011. (34% acceptance rate.)

Janet Davis. "Generating Design Directions for Persuasive Technology through the Inspiration Card Workshop." In PERSUASIVE 2010*, the Fifth International Conference on Persuasive Technology*, Copenhagen, Denmark, June 7–10, 2010. (30% acceptance rate.)

Alan Borning, Batya Friedman, Janet L. Davis, Brian T. Gill, Peter H. Kahn, Jr., Travis Kriplean and Peyina Lin. "Public participation and value advocacy in information design and sharing: Laying the foundations in advance of wide-scale public deployment." *Information Polity*, 14(1-2), 2009, 61-74.

Samuel Mann, Logan Muller, Janet Davis, Claudia Roda, and Allison Young. "Computing and Sustainability: Evaluating Resources for Educators." *inroads - SIGCSE Bulletin* 41(4): 144–155, December 2009.

Janet Davis. "Design Methods for Ethical Persuasive Computing." In *PERSUASIVE 2009, the Fourth International Conference on Persuasive Technology*, Claremont, California, April 27–29, 2009. (30% acceptance rate.)

Janet Davis. "Experiences with Just-in-Time Teaching in Systems and Design Courses." In *SIGCSE 2009 Technical Symposium on Computer Science Education*, Chattanooga, Tennessee, March 4–7, 2009. (33% acceptance rate.)

Batya Friedman, Alan Borning, Janet Davis, Brian Gill, Peter Kahn, Travis Kriplean, and Peyina Lin. "Laying the Foundations for Public Participation and Value Advocacy: Interaction Design for a Large Scale Urban Simulation." *Proceedings of the 9th Annual International Conference on Digital Government Research (dg.o 2008)*, Montréal, Canada, May 2008. (34% acceptance rate.)

Janet Davis. "Engaging and Informing Citizens with Household Indicators." In *Proceedings of the Hawai'i International Conference on System Sciences (HICSS-41)*, Waikoloa, Hawaii, January 7-10, 2008. (~50% acceptance rate.)

Janet Davis and Samuel A. Rebelsky. "Food-First Computer Science: Starting the First Course Right with PB&J." In *Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education*, Covington, KY, March 7-10, 2007. (34% acceptance rate.)

Janet Davis, Peyina Lin, Alan Borning, Batya Friedman, Peter H. Kahn, Jr., and Paul Waddell, "Simulations for Urban Planning: Design for Human Values." *IEEE Computer* 39(9): 66-72, September 2006.

Janet Davis and Tammy VanDeGrift. "The Journey to a Teaching-Oriented Faculty Career: A Handbook of Advice for Graduate Students." In *Proceedings of the 2006 ASEE Annual Conference and Exposition*, June 2006. (~30% acceptance rate.)

Alan Borning, Batya Friedman, Janet Davis, and Peyina Lin. "Informing Public Deliberation: Value Sensitive Design of Indicators for a Large-Scale Urban Simulation." In *Proceedings of the 9th European Conference on Computer-Supported Cooperative Work*, Paris, September 2005. (19% acceptance rate.)

Robert Grimm, Janet Davis, Eric Lemar, Adam MacBeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, and David Wetherall. "System Support for Pervasive Applications." *ACM Transactions on Computer Systems,* 22(4):421-486, November 2004.

A.J. Brush, Morgan Ames, and Janet Davis. "A Comparison of Synchronous Remote and Local Usability Studies for an Expert Interface." In *Extended Abstracts of CHI 2004, ACM Conference on Human Factors in Computing Systems*, Vienna, April 2004. (32% acceptance rate)

Robert Grimm, Janet Davis, Ben Hendrickson, Eric Lemar, Adam MacBeth, Steven Swanson, Tom Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, and David Wetherall. "Systems Directions for Pervasive Computing." In *Proceedings of the 8th Workshop on Hot Topics in Operating Systems (HotOS-VIII),* pages 147-151, Elmau, Germany, May 2001.

Benjamin Barden, Janet Davis, Ran Libeskind-Hadas, and William W. Williams. "On Edge-Disjoint Spanning Trees in Hypercubes." *Information Processing Letters,* 70(1):13-16, April 16, 1999.


## PEER-REVIEWED PRESENTATIONS

Jakob Barnard, Grant Braught, Janet Davis, Amanda Holland-Minkley, David Reed, Karl Schmitt, Andrea Tartaro, and James Teresco. "Reflective Curriculum Review for Liberal Arts Computing Programs." Tutorial to be presented at the *A*nnual Northwestern Regional Conference of the Consortium for Computing Sciences in Colleges (CCSC-NW 2022), Portland, OR, November 3-4, 2022.

Haiyan Cheng, Janet Davis, Shereen Khoja, and Tammy VanDeGrift. "Expanding Career Pathways: The Joy of Teaching Computer Science at Predominantly Undergraduate Liberal Arts Institutions." Panel presented at the *Annual Northwestern Regional Conference of the Consortium for Computing Sciences in Colleges (CCSC-NW 2021)*, virtual, October 8-9, 2021.

Amanda Holland-Minkley, Janet Davis, Mario Nakazawa, Andrea Tartaro, Jim Teresco. "Innovations and Opportunities in Liberal Arts Computing Education." Pre-symposium event at the *52nd ACM Annual Technical Symposium on Computer Science Education (SIGCSE 2021)*, Virtual, March 8-9, 2021.

Janet Davis. "A Proposed Evaluation of *Just Not Sorry*, a Technology to Influence Language Use." *Adjunct proceedings of the 15th International conference on Persuasive Technology (PERSUASIVE 2020)*, online asynchronous, April 20-23, 2020.

Janet Davis and Grant Braught. "Liberal Arts Computing Curricula: Innovations, Challenges, and Opportunities." Pre-symposium event at the *51st ACM Technical Symposium on Computer Science Education (SIGCSE '20)*, Portland, OR, USA, March 11-14, 2020.

Darakhshan J. Mir, Iris Howley, Janet Davis, Evan Peck, and Michael Stewart. "Make and Take an Ethics Module: Ethics Across the CS Curriculum." Workshop at the *50th ACM Technical Symposium on Computer Science Education (SIGCSE '19)*, Minneapolis, MN, USA, February 27-March 2, 2019. (53% acceptance rate.)

Janet Davis (moderator), Valerie Galuzzi, Nery Chapeton-Lamas, and Peter-Michael Osera. "Finding your kind of teaching school: Different paces at different places." Presented at the *ACM Richard Tapia Celebration of Diversity in Computing*, Austin, TX, September 14-17, 2016.

Janet Davis. "Reframing Persuasive Technology for Sustainability ." Presented at the workshop on "Design patterns, principles, and strategies for Sustainable HCI" at the *ACM Conference on Human Factors in Computer Systems (CHI 2016)*, San Jose, CA, May 7-8, 2016.

Christine A. Shannon, James Kiper, Samuel A. Rebelsky, Janet Davis (moderator). "Engaging CS Alumni from Afar." Panel at the *ACM Technical Symposium on Computer Science Education (SIGCSE 2016)*, March 2-5, Nashville, KY

Janet Davis (moderator), Sorelle Friedler, Sherri Goings, Darakhshan Mir, Cynthia Taylor. "Diverse Paths to Teaching and Research at Liberal Arts Colleges." Panel at the 2015 Grace Hopper Celebration of Women in Computing (GHC 2015), October 14-16, Houston, TX.

Janet Davis, Christine Alvarado, Miranda C. Parker, Jennelle Nystrom[†]. "Preparing Undergraduates to Make the Most of Attending CS Conferences." Birds-of-a-Feather session at the *ACM Technical Symposium on Computer Science Education (SIGCSE 2015)*, Kansas City, Missouri, March 4-7, 2015.

Debra Lee Davis, David Berque, Janet Davis, Matt Jadud, and Paul Resnick. "Including HCI and user experience (UX) methodologies in computing curriculum." Birds-of-a-Feather session at the *ACM Technical Symposium on Computer Science Education (SIGCSE 2014)*, Atlanta, Georgia, March 6-8, 2014.

Janet Davis, Christine Alvarado, Tzu-Yi Chen, Amy Czismar-Dalal, and Sohie Lee. "Faculty Careers at Liberal Arts Colleges: Myths and Realities." Panel at the *Grace Hopper Celebration of Women in Computing (GHC 2013)*, Minneapolis, Minnesota, October 2-5, 2013.

Debra Lee Davis, Kip Irvine, David Berque, Janet Davis, Brian Dorn, and Matt Jadud. "Including HCI and user experience (UX) methodologies in computing curriculum." Birds-of-a-Feather session at the *ACM Technical Symposium on Computer Science Education (SIGCSE 2013)*, Denver, Colorado, March 6-9, 2013.

Juan Pablo Hourcade, Natasha Bullock-Rest, Janet Davis, Lahiru Jayatilaka, Neema Moraveji, Lisa Nathan, and Panayiotis Zaphiris. "HCI for Peace—Preventing, De-Escalating, and Recovering from Conflict." Workshop at the *ACM Conference on Human Factors in Computer Systems (CHI 2012)*, Austin, TX, May 5-10, 2012. (62% acceptance rate.)

Marge Coahran and Janet Davis. "Circuits and Microcontrollers in Computer Organization Laboratories." Workshop at the *ACM Technical Symposium on Computer Science Education (SIGCSE 2012)*, Raliegh, North Carolina, USA, February 29 - March 3, 2012. (46% acceptance rate.)

Scott Kaitz[†] and Janet Davis. "Facebook Support Groups: Toward Understanding Member Usage." Presented at the *Sixth International Conference on Persuasive Technology (PERSUASIVE 2011)*, Columbus, OH, June 2-5, 2011.

Janet Davis. "From Ethics to Values in the Design of Mobile PINC." Presented at "The 2nd International Workshop on

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[†]Grinnell student or alumna/us.

[†]Grinnell student or alumna/us.

Persuasion, Influence, Nudge & Coercion through mobile devices" at the *ACM Conference on Human Factors in Computer Systems (CHI 2011)*, Vancouver, May 8-13, 2011.

Janet Davis. "Workshop on Ethics of Persuasive Technology: Envisioning Systemic Impacts." Workshop at the *Fifth International Conference on Persuasive Technology (PERSUASIVE 2010)*, Copenhagen, Denmark, June 10, 2010.

Janet Davis. "Participatory Design for Sustainable Campus Living." Work-in-progress in *CHI 2010 Extended Abstracts on Human Factors in Computing Systems*, Atlanta, April 14-15, 2010. (26% acceptance rate.)

Janet Davis. "Applying the Inspiration Card Workshop." Presented at the workshop on "Bridging the Gap: Moving from Contextual Analysis to Design" at the *CHI 2010 Conference on Human Factors in Computing Systems*, Atlanta, April 10, 2010.

Timothy M. Miller[†], Patrick Rich[†], and Janet Davis. "ADAPT: Audience Design of Ambient Persuasive Technology." Work-in-progress in *CHI 2009 Extended Abstracts on Human Factors in Computing Systems*, Boston, April 4–9, 2009. (34% acceptance rate.)

Janet Davis. "Early Experiences with Participatory Design of Ambient Persuasive Technology." Presented at the workshop on "Defining the Role of HCI in the Challenges of Sustainability" at the *CHI 2009 Conference on Human Factors in Computing Systems*, Boston, April 5, 2009.

Richard Brown, Janet Davis, Samuel A. Rebelsky (moderator), Brian Harvey. "Whither Scheme? 21st Century Approaches to Scheme in CS1." Panel at the *SIGCSE 2009 Technical Symposium on Computer Science Education*, Chattanooga, Tennesee, March 4–7, 2009.

Matthew Kluber, Janet Davis, Samuel A. Rebelsky. "Workshop 21: MediaScripting: Media Computation In Context." Workshop at the *SIGCSE 2009 Technical Symposium on Computer Science Education*, Chattanooga, Tennessee, March 6, 2009.

Soren Berg[†], Janet Davis, and Samuel A. Rebelsky. "MediaScripting: Introductory Computer Science with a Free and Open-Source Graphics Application." *Free and Open Source Software (FOSS) Symposium 2009: Integrating FOSS into the Undergraduate Computing Curriculum*, Chattanooga, Tennessee, March 4, 2009.

Timothy M. Miller[†], Patrick Rich[†], and Janet Davis. "ADAPT: Audience Design of Persuasive Technology." In "Pervasive Computing Approaches to Environmental Sustainability," ed. Anthony D. Joseph. *IEEE Pervasive Computing* 8(1): 54-57, January - March 2009.

Janet Davis. "Towards Participatory Design of Ambient Persuasive Technology." Presented at "Persuasive Pervasive Technology and Environmental Sustainability," Workshop at the *Sixth International Conference on Pervasive Computing (Pervasive 2008)*, Sydney, Australia, May 19–22, 2008.

Janet Davis, Jeannie Albrecht, Melissa O'Neill, Megan Thomas. "Making the Transition to a Teaching-Oriented Institution." Panel at the *Grace Hopper Celebration of Women in Computing 2007*, Orlando, October 17–20, 2007.

Janet Davis, Ruth Anderson, Cheryl D. Seals, Megan Thomas, Tammy VanDeGrift. "The Journey to a Teaching-Oriented Faculty Position." Panel at the *Grace Hopper Celebration of Women in Computing 2006*, San Diego, October 4–7.

Janet Davis. "Household Indicators: Design to Inform and Engage Citizens." Work-in-progress in *CHI 2006 Extended Abstracts on Human Factors in Computing Systems*, Montreal, April 22–27, 2006. (23% acceptance rate.)

Alan Borning and Janet Davis. "Three Contexts of Appropriation for an Urban Simulation System." Presented at "Supporting Appropriation Work—Approaches for the 'Reflective' User," Workshop at the *9th European Conference on Computer-Supported Cooperative Work*, Paris, September 2005.

Janet Davis, Peyina Lin, Alan Borning, and Batya Friedman. "Designing Urban Simulation to Foster Civic Engagement: A Value Sensitive Design Approach." Presented at "Engaging the City: Public Interfaces as Civic Intermediary," Workshop at *CHI 2005, ACM Conference on Human Factors in Computing Systems,* Portland, Oregon, April 2005.

Janet Davis. "Bias and Credibility in UrbanSim." Presented at the Doctoral Consortium of the *Eighth Biennial Participatory Design Conference,* Toronto, July 2004.

Morgan Ames, A.J. Brush, and Janet Davis. "Comparing Synchronous Local and Remote Usability Studies for an Expert Interface." Presented at the *Grace Hopper Celebration of Women in Computing,* Chicago, October 2004.

Robert Grimm, Janet Davis, Eric Lemar, Adam MacBeth, Steven Swanson, Steven Gribble, Tom Anderson, Brian Bershad, Gaetano Borriello, and David Wetherall. "System-level Programming Abstractions for Ubiquitous Computing." Presented at the *UbiTools'01 Workshop on Application Models and Programming Tools for Ubiquitous Computing*, Atlanta, September 2001.

**OTHER PRESENTATIONS AND PUBLICATIONS**

Janet Davis, Michael Hilton, and Ian Ludden. "The Ph.D. in CS: Getting There and Being Successful." CRA-E presentation, virtual, November 1, 2021.

Invited panelist, Department Chairs' Roundtable at the *52nd ACM Technical Sumposium on Computer Science Education (SIGCSE 2021)*, virtual, March 12-13, 2021.

Janet Davis. "Too Many Projects on Gender, Language, and Technology." Whitman College Faculty Forum, February 3, 2021

Janet Davis. "An experiment in the socially-distanced classroom." Blog post, *Counting From Zero*, June 2020. This blog post went viral and was followed by 39 public comments, the most of any of my blog posts. `http://blogs.whitman.edu/countingfromzero/2020/06/19/an-experiment-in-the-socially-distanced-classro`

Janet Davis. "5 ways to welcome women to computer science." *The Chronicle of Higher Education*, November 18, 2019. `https://www.chronicle.com/article/5-Ways-to-Welcome-Women-to/247541`

Janet Davis. "Value Sensitive Design: Foundation, Critiques, and Possibilities." Invited talk, *Workshop on Exploring Values across Methods and Disciplines*, Delft University of Technology, Faculty of Technology, Policy & Management, October 31 - November 1, 2019.

Ruth Anderson, Janet Davis, Richard LeBlanc, Kelvin Sung, and Dan Grossman. "Academic (non-R1) Job Search Seminar." Invited panel, University of Washington, Department of Computer Science and Engineering, November 5, 2019.

Janet Davis. "Seven tips for advertising your graduate program to undergraduate programs." *Computing Research News* 31(7). August 2019. `https://cra.org/crn/2019/08/seven-tips-for-advertising-your-graduate-prog`

Janet Davis. "The Persuasive Technology Studies." In B. Friedman and D. Hendry, *Value Sensitive Design: Shaping Ways of Being with Technology*, 121-127. MIT Press, 2019.

Ruth Anderson, Janet Davis, Richard LeBlanc, Kelvin Sung, and Dan Grossman. "Academic (non-R1) Job Search Seminar." Invited panel, University of Washington, Department of Computer Science and Engineering, November 2, 2017.

Janet Davis. "Liberal arts academia wants YOU!" *Communications of the ACM* 60(2):12–13, February 2017. `https://cacm.acm.org/magazines/2017/2/212444-liberal-arts-academia-wants-you/fulltext`

Janet Davis, Christine Alvarado, Jeannie Albrecht, Tzu-Yi Chen, Amy Csizmar Dalal, and Sohie Lee. "Computer science faculty careers at liberal arts colleges." *XRDS: Crossroads, The ACM Magazine for Students* 21(3): 13-15, Spring 2015.

Janet Davis, Batya Friedman, and Lisa Nathan, "HCI and Public Policy: History and Focus." In J. Lazar (Ed.), *Human-Computer Interaction and Public Policymaking Internationally: A Foundation for Understanding*, SIGCHI Public Policy Report, April 2015.

Janet Davis. "Computer Science at Grinnell College." Invited talk in the Whitman College Symposium on Computer Science, June 16, 2014.

Janet Davis. "Values and Persuasive Technology, Revisited." Invited talk at the 3TU Centre for Ethics and Technology, University of Twente, May 15, 2014.

Janet Davis. "The Mobile Phone and Human Values." Invited lectures in Grinnell's Adult Community Exploration Series (ACES), June 26 and July 3, 2013.

Janet Davis. "The Mobile Revolution." Invited lecture in Grinnell College's Alumni College, May 30, 2013.

Janet Davis. "Designing Persuasive Technology Together." Invited lecture in the Computer Science Colloquium series, University of Iowa, Iowa City, IA, November 9, 2012.

Jonathan Lazar, Julio Abascal, Janet Davis, Vanessa Evers, Jan Gulliksen, Joaquim Jorge, Tom McEwan, Fabio Paternans Persson, Raquel Prates, Hans von Axelson, Marco Winckler, Volker Wulf. HCI public policy activities in 2012: a 10-country discussion. *interactions* 19(3), 78-81, May + June 2012.

Janet Davis, Harry Hochheiser, Juan Pablo Hourcade, Jeff Johnson, Lisa P. Nathan, and Janice Tsai. "Politics, Power, and Passion: Engaging U.S. Policymakers." Invited panel at the *CHI 2012 Conference on Human Factors in Computer Systems*, Austin, TX, May 5-10, 2012.

Maurits Kaptein, Dean Eckles, and Janet Davis. "Envisioning Persuasion Profiles: Challenges for Public Policy and Ethical Practice." *interactions* 18(4): 66-69, September + October 2011.

Juan E. Gilbert, Margaret Burnett, Richard E. Ladner, Mary Beth Rosson, and Janet Davis (moderator). "Applying the NSF Broader Impacts Criteria to HCI Research." Invited Special Interest Group meeting at the *CHI 2011 Conference on Human Factors in Computer Systems*, Vancouver, May 8-13, 2011.

Janet Davis. "Exploring persuasive technology through participatory design." Computer Science Thursday Extras Series, Grinnell College, September 16, 2010.

Janet Davis. "SIGCAS, HCI & Sustainability." *ACM SIGCAS Computers and Society Newsletter* 38(2): 19–21, June 2008.

Invited speaker, New Faculty Workshop, Midstates Science and Mathematics Consortium, July 2007.

Janet Davis. "Engaging and Informing Citizens with Household Indicators." Department of Computer Science, Knox College, February 18, 2007.

## OPEN-SOURCE SOFTWARE

Janet Davis, Kalilou Ali Kadiri*, Ahmed Elsayed*, Zoë Hill*, Nidhi Jaltare*, and Dylan Wu*. Contributions to *Reading for Gender Bias*, summer 2020. `https://github.com/gender-bias`.

Janet Davis and Beszel Hawkins*. *Degender the Web*, 2019–2020. `https://github.com/glam-lab/degender-the-web`.

Janet Davis and Buyaki Nyatichi*. Contributions to *Just Not Sorry*, June 17, 2019. `https://github.com/defmethodinc/just-not-sorry/commits?author=ProfJanetDavis`

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*Whitman student or alumna/us.