# Margaret M. Burnett

Distinguished Professor
School of Electrical Engineering and Computer Science
Oregon State University

## *Academic Background*

***Education***

University of Kansas, 1987-1991, Ph.D. Computer Science (with honors).
University of Kansas, 1979-1981, M. S. Computer Science.
Miami University, Oxford, Ohio, 1967-1970, B.A. Mathematics, Cum Laude, Phi Beta Kappa.

***Areas of Interest***

Human aspects of software development. For example, HCI aspects of software development tools, visual programming, end-user programming and end-user software engineering, gender differences in software usage.

***Affiliations***

National Center for Women in Technology. Academic Alliance Executive Committee 2010-present, Academic Alliance Co-chair June 2011-May 2014, Academic Alliance Advisory Board May 2014-present.
Member, EUSES Consortium, 2003-present (Founding Project Director 2003-2009).
Senior Member, IEEE.
Fellow, ACM.

## *Experience*

***Academic Work Experience***

Feb. 2016 - present: Distinguished Professor, Oregon State University.
Sept. 2003 - Feb 2016: Professor, Oregon State University.
Sept. 1996 - Sept. 2003: Associate Professor, Oregon State University.
Jan. 1993 - Sept. 1996: Assistant Professor, Oregon State University.
Sept. 1991 - Dec. 1992: Assistant Professor, Michigan Technological University.

Mar. 2009 - June 2009: Visiting Researcher, Microsoft Research, Redmond, WA.
Sept. 2008 - Nov. 2008: Visiting Researcher, IBM T.J. Watson Research Lab, Hawthorne, NY.
March 2002 - April 2002: Honorary Research Fellow, University of Auckland, New Zealand.
Sept. 2001 - Nov. 2001: Visiting Scholar, Cambridge University, United Kingdom.
Sept. 2001 - Nov. 2001: Darwin College Visiting Associate, Cambridge, United Kingdom.
Sept. 2001 - Nov. 2001: Visiting Researcher, Microsoft Research, United Kingdom.

***Honors and Awards***

*National/International Awards*

IEEE VLHCC Most Influential Paper Award: 2022.
IEEE Computer Society TCSE Distinguished Women in Science and Engineering (WISE) Leadership Award: 2022.
IEEE VLHCC Most Influential Paper Award: 2021.
ACM IUI Highest Impact Award: 2021.
U.S. Department of State's Bureau of International Information Programs Speaker (2019).
ACM Fellow. 2017
Computing Research Association, CRA-E Undergraduate Research Faculty Mentoring Award. 2017.
ACM CHI Academy, 2016.
ACM Distinguished Scientist, 2015.
IEEE VLHCC Most Influential Paper Award from 10 Years Ago: 2015.
iGIANT: 2020 iGIANT Champion Award.
National Center for Women & IT (NCWIT) Undergraduate Research Mentoring Award: 2015.
Microsoft Hero in Education, 2014.
IEEE VLHCC Most Influential Paper Award from 20 Years Ago: 2011.
ACM Distinguished Speaker: 2012-2018, 2018-2021, 2022-2025.
IBM International Faculty Awards: 2005-2006, 2007, 2008.
National Science Foundation NSF Young Investigator Award (NYI): 1994.
Amoco Graduate Fellowship: 1989-1991.
Phi Beta Kappa: 1970.

*Best Paper Awards/Honorable Mentions*

IEEE VLHCC Best Paper Honorable Mention: 2017.
ACM CHI Best Paper Honorable Mention: 2017.
ACM FSE Distinguished Paper Award: 2016.
ACM CHI Best Paper Award: 2016.
ACM CHI Best Paper Honorable Mention: 2016.
ACM CHI Best Paper Honorable Mention: 2012.
IEEE VLHCC Best Paper Award: 2011.
ACM IUI Best Paper Nominee: 2011.
ACM CHI Best Paper Honorable Mention: 2010.
ACM CHI Best Paper Honorable Mention: 2008.

*Oregon State University Awards*

Oregon State University, Breaking Barriers in Research Award (with Anita Sarma), 2021.
Oregon State University, Distinguished Professor, 2016.
Oregon State University College of Engineering Alumni Professor Award: 2015.
Oregon State University Excellence in Graduate Mentoring Award: 2010.
Oregon State University College of Engineering Research Award: 2009.
Oregon State University College of Engineering Research Collaboration Award: 2005.
Oregon State University Elizabeth P. Ritchie Distinguished Professor Award: 2000.

*Service Awards*

ACM CHI: Special Recognition for Outstanding Reviewing: 2023 (three).
ACM IUI: Special Recognition for Outstanding Reviewing: 2022 (twice).

ACM CHI: Special Recognition for Outstanding Reviewing: 2022 (twice).
ACM DIS: Special Recognition for Outstanding Reviewing, 2021.
ACM CHI: Special Recognition for Outstanding Reviewing: 2020 (twice).
ACM CHI: Special Recognition for Outstanding Reviewing: 2019 (twice).
ACM CHI: Special Recognition for Outstanding Reviewing: 2018.
ACM CHI: Special Recognition for Outstanding Reviewing: 2017.
ACM DIS: Special Recognition for Outstanding Reviewing, 2014.

## *Patents*

R. Bellamy, M. Burnett, J. Lawrance, P. Malkin, J. Richards, C. Williams. Method and System for Determining a Prioritized List of Users Related to a Given Goal, U.S. Patent Number US Patent 8,825,561, issued September 2, 2014.
S. Peyton Jones, A. Blackwell, M. Burnett, User Defined Spreadsheet Functions, U. S. Patent Number 7,266,763, issued September 4, 2007.
G. Rothermel, M. Burnett, L. Li. A Methodology for Testing Spreadsheets, U. S. Patent Number 6,948,154, issued September 20, 2005.
A. Sheretov, M. Burnett, G. Rothermel. A Methodology for Testing Spreadsheet Grids, U. S. Patent Number 6,766,509, issued July 20, 2004.

## *Funding*

*Research Funding through Grants and Contracts:*
OSU College of Engineering, CREEdO grant, $89,142. PI: Margaret Burnett. Co-PIs: Anita Sarma, Lara Letaw. Sept. 2021-March 2023.
USDA, AI-Institute, $20,000,000. PI: Anantharaman Kalyanaraman (Washington State Univ.). Co-PIs: Margaret Burnett (OSU), Alan Fern (OSU), Lav Khot (WSU), Joshua Viers (Univ. California Merced). Oct. 1, 2021-Sept. 30, 2026.
National Science Foundation, REU supplement to IUSE grant. $16,000. June 2021-June 2022.
National Science Foundation, REU supplement to IIS grant (with Anita Sarma). $32,000. March 2021-March 2022.
National Science Foundation, Collaborative Research: ESL Level 1: Embedding Equitable Design through Computing Curricula. $299,678. PI: Margaret Burnett. Co-PI: Patricia Morreale. February 2021-January 2024.
Center for Inclusive Design at Northeastern University, Diversity Data, $60,000. PI: Lara Letaw. Co-PI: Margaret Burnett. November 2020-November 2022.
DARPA: After Action Review for AI (AARfAI), $500,000. PI: Alan Fern. Co-PIs: Margaret Burnett and Minsuk Kahng. estimated dates: April 2021-January 2022.
National Science Foundation, REU supplement (with Anita Sarma). $32,000. March 2020-March 2021.
National Science Foundation, Gender-Inclusive Open Source through Gender-Inclusive Tools, $1,400,000. Anita Sarma and Margaret Burnett (Oregon State), Igor Steinmacher and Marco Gerosa (Northern Arizona). October 2019-September 2023.
DARPA: EXACT: Explanation-Informed Acceptance Testing of Deep Adaptive Programs, $6,545,123, PI: Alan Fern, Co-PIs: Margaret Burnett, Thomas Dietterich, Martin Erwig, Liang Huang, Fuxin Li, Prasad Tadepalli, Weng-Keen Wong. 2017-2021.

National Science Foundation: Software to Support Diverse Problem Solvers, Margaret Burnett, $500,000, October 2015-September 2020.

National Instruments: Margaret Burnett. $1500. April 2014.

National Science Foundation: Information Foraging Theory: From Scientific Principles to Engineering Practice, Scott Fleming (Univ. Memphis), Christopher Scaffidi and Margaret Burnett (Oregon State). Total: $932,620. Sept. 2013-Aug. 2017.

National Science Foundation: Variations to Support Exploratory Programming, Brad Myers (Carnegie Mellon), Martin Erwig and Margaret Burnett (Oregon State), Anita Sarma and Gregg Rothermel (Univ. Nebraska), Andrew Ko (Univ. Washington). Total: $2,927,144. Aug. 2013-July 2018.

National Science Foundation: CE-21, Computing Education through Social Debugging, Andrew Ko (Univ. Washington), Margaret Burnett, Catherine Law (Oregon State): Total: $599,999. Oct. 2012-Sep. 2015.

Microsoft Research: $37,000, 2011.

IBM Open Collaboration Research Award (OCR): $50,000. 2010-2011.

Air Force Office of Scientific Research, "Supporting the Human Modelers in Large Scale Cognitive Modeling," Margaret Burnett, $256,535. 2010-2013.

IBM Open Collaboration Research Award (OCR): $50,000. 2009-2010.

National Science Foundation, "HCC: Supporting Males' and Females' Problem Solving Strategies in End-User Debugging," IIS/HCC Program, Total: $499,999. PI: Margaret Burnett. October 2009-September 2013.

Air Force Office of Scientific Research, "Information Foraging Theory in Software Maintenance," Margaret Burnett, $493,852. 2009-2012.

National Science Foundation, "End-User Debugging of Machine-Learned Programs", Margaret Burnett, Thomas Dietterich, Simone Stumpf, Weng-Keen Wong, $890,112. 2008-2013.

National Science Foundation, 1-year supplement to NSF-ITR Dependable End-User Software grant. $527,847 (submitted April 2007. Funded through 12/31/08). Project Director: Margaret Burnett. Collaborative with the following universities:

OSU. PIs: Margaret Burnett (lead PI), Martin Erwig, Margaret Niess, Gregg Rothermel (via subcontract).

Carnegie Mellon. PI: Brad Myers, Mary Shaw.

Drexel University. PI: Susan Wiedenbeck.

University of Nebraska Lincoln. PI: Sebastian Elbaum.

Pennsylvania State University. PI: Mary Beth Rosson.

IBM International Faculty Award: $15,000 (2008-9).

i5Logic: $12,600 (2007). Funding for spreadsheet-oriented research. 2007-2008.

IBM International Faculty Award: $30,000 (2007).

IBM International Faculty Award: $40,000 + $20,000 (2005-6).

DARPA/SRI, "Cognitive Agent that Learns and Organizes (CALO)," $840,000, Tom Dietterich, Jon Herlocker, Alan Fern, and Margaret Burnett. 2005-2006. (Burnett portion: $210,000).

Microsoft Research (U.K.): "Gender HCI Issues in Problem-Solving Software," Margaret Burnett, $148,147. 2004-2007.

National Science Foundation (ITWF Program), "Gender HCI Issues in Problem-Solving Software," Margaret Burnett, $249,285. Status: 2004-2008.

Computing Research Association, CRA-W Distributed Mentor Program (for involving 2 undergraduate women in research), $4,000. PI: M. Burnett. 2004.

National Science Foundation, "Collaborative Research: Dependable End-User Software," $2,640,000, ITR Medium Program, 2003-2007. Collaborative grant involving the following universities:

OSU. PIs: Margaret Burnett (Project Director), Gregg Rothermel, Martin Erwig, Margaret Niess. Additional investigators: Curtis Cook (OSU), Ellen Ford (OSU), Alan Blackwell (Cambridge University). $1,680,000.

Carnegie Mellon. PIs: Brad Myers, Mary Shaw. $324,000

Drexel University. PI: Susan Wiedenbeck. $212,000

Pennsylvania State University. PI: Mary Beth Rosson. $212,000

University of Nebraska Lincoln. PI: Sebastian Elbaum. $212,000

Microsoft Research, (collaborative research with Simon Peyton Jones), $17,920, 2001-2004, PI: M. Burnett.

Iwate Prefectural University, Japan, (subcontracted from Catena Corporation, Japan), "Analysis of the Potential of Incorporating WYSIWYT into Lyee," $68,792. 2002-2003. PI: M. Burnett. Co-PI: G. Rothermel.

Computing Research Association, CRA-W Distributed Mentor Program, $2,500. PI: M. Burnett. 2002.

National Science Foundation (ITR Program), "End-User Software Engineering", $455,000, 2000-2004. PIs: Margaret Burnett, Gregg Rothermel, and Curtis Cook.

Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Washington, D.C.: Visual Programming Patent Consulting, $2,350. 2000.

Hewlett-Packard Laboratories (Dr. Rajeev Pandey). "A WYSIWYG Programming Tool for End-User Creation of Services for e-speak", $49,500. 2000-2001, PI: M. Burnett.

Pictorius International, Software Grant, $45,747, 1999, PI: M. Burnett.

National Science Foundation, Experimental Software Systems (ESS Program), "An Experimental Environment for Integrating Testing and Debugging in Form-Based Visual Programming Languages", $909,553, 1998-2001. PIs: Margaret Burnett, Gregg Rothermel, and Curtis Cook.

Pictorius International, Software Grant, $10,100, 1998, PI: M. Burnett.

National Science Foundation, Software Capitalization Supplement, $30,000. 1997-1998, PI: M. Burnett.

Harlequin, Inc., Software Grant, $11,250, 1997, PI: M. Burnett.

Hewlett-Packard Laboratories (Dr. Mary Loomis), $37,500, 1995-1996, PI: M. Burnett.

OCATE, Colloquium Grant, $4,000, colloquium series entitled "Visual Programming Languages and Environments," 1995-1996, PI: M. Burnett.

National Science Foundation, Metacenter Regional Alliances, $1,474,822, 1995-1998. PIs: C. Pancake, R. Landau, A. Malony, T. Reynales. Co-Investigators: M. Burnett, J. Cuny, W. Daasch, M. Driscoll, S. Otto.

Hewlett-Packard Laboratories (Dr. Moshe Zloof), $37,500, 1994-1995, PI: M. Burnett.

Prograph International, Software Grant, $7,275, Nov. 1994, PI: M. Burnett.

National Science Foundation, Young Investigator (NYI) Award, $266,125. 1994-2000, PI: M. Burnett.

National Science Foundation, Research Initiation Award: "Toward Scaling Up: Visual Data Abstraction for Declarative Visual Programming Languages," $90,000, 1993-1996, PI: M. Burnett.

National Science Foundation, Research Planning Grant: "A Study of the Scaling Up Problem for Declarative Visual Programming Languages," $18,000. 1992–1994, PI: M. Burnett.

*Funding for Students, K-12 Teachers and Research Community-Building Events:*

National Science Foundation, REU Supplement to GenderMag grant: $16,000. April 2016-2017. (Burnett)

National Science Foundation, REU Supplement to IFT grant: $16,000. April 2015-2016. (Burnett, Scaffidi)

National Science Foundation, REU Supplement to CE-21 grant: $16,000. March 2015-2016. (Burnett)

National Science Foundation, REU Supplement to IFT grant: $14,000. April 2014. (Burnett, Scaffidi)

National Science Foundation, REU Supplement to CE-21 grant: $14,000. April 2014. (Burnett)

National Science Foundation, REU Supplement: $16,000. May 2011-May 2013. (Burnett, Wong)

National Science Foundation, REU Supplement to "Supporting Males' and Females' Problem Solving Strategies in End-User Debugging," $12,000, 1 year, starting approx. May 2010.

National Science Foundation, REU Supplement to "End-User Debugging of Machine-Learned Programs," $12,000, (with Weng-Keen Wong and Simone Stumpf), 1 year, starting approx. May 2009.

National Science Foundation, REU Supplement to "Dependable End-User Software," $12,000, (with Martin Erwig), 1 year, starting approx. Sept. 2008.

IBM PhD Scholarship, $15,000: Partial funding for Joseph Lawrance's studies, 2008-2009. Submitted by M. Burnett. 2008-2009.

National Science Foundation, REU Supplement to "Dependable End-User Software," $12,000, (with Martin Erwig), 2008-2009.

National Science Foundation, REU Supplement to "Gender HCI," Margaret Burnett, $12,000. 2006-2007.

National Science Foundation, REU Supplement to "Dependable End-User Software," $12,000, (with Martin Erwig), 2006-2007.

National Science Foundation, REU Supplement to "Dependable End-User Software," $12,000, (with Martin Erwig), 2005-2006.

National Science Foundation, Teacher Supplement, to "Dependable End-User Software," $99,999, (with Margaret Niess and Ellen Ford). 2004-2006.

National Science Foundation, REU Supplement to "Dependable End-User Software," $12,000, (with Martin Erwig and Gregg Rothermel), 2004-2005.

National Science Foundation, "Workshop Event: Programming Languages/Environments for the Educationally Disadvantaged," $39,096. PI: Margaret Burnett. 2003-2005.

National Science Foundation, Additional REU Supplement to ITR grant "End-User Software Engineering", $10,000. PIs: Margaret Burnett, Gregg Rothermel, and Curtis Cook. 2001-2002.

OSU/NASA Space Grant Fellowship, $6,000: Funding for graduate student Jay Summet. Sept. 2000-Aug. 2001. (Submitted by M. Burnett)

OSU/NASA Space Grant Fellowship, $16,000: Funding for incoming graduate student Jay Summet. Sept. 1999-Aug. 2000. (Submitted by M. Burnett)

NASA Graduate Student Researchers Grant: $44,000: Funding for Rebecca Walpole's studies. July 1997-June 1999. (Transferred remainder of Rebecca's second-year funding to John Atwood when she graduated.) Submitted by Rebecca Walpole and M. Burnett.

National Science Foundation (REU Supplement), $10,000. 1997-1999, PI: M. Burnett.
National Science Foundation, REU Supplement (Research Experiences for Undergraduates), $10,000, 1994-1996, PI: M. Burnett.
OSU/NASA Space Grant Fellowship, $15,000: Funding for incoming graduate student Paul Carlson. 1993-1994, submitted by W. Rudd and M. Burnett.
National Science Foundation, REU Supplement (Research Experiences for Undergraduates) to "A Study of the Scaling Up Problem for Declarative Visual Programming Languages", $5000. 1993-1994, PI: M. Burnett.

**Grand total funding:** **$ 44,886,261**

## *Publications*

***Journal Papers***

1) Roli Khanna, Jonathan Dodge, Andrew Anderson, Rupika Dikkala, Jed Irvine, Zeyad Shureih, Kin-Ho Lam, Caleb R. Matthews, Zhengxian Lin, Minsuk Kahng, Alan Fern, and Margaret Burnett, Finding AI's Faults with AAR/AI: An Empirical Study, ACM Transactions on Interactive Intelligent Systems 12(1), Article 1 (February 2022), 33 pages.
2) Hema Susmita Padala, Christopher Mendez, Felipe Fronchetti, Igor Steinmacher, Zoe Steine-Hanson, Claudia Hilderbrand, Amber Horvath, Charles Hill, Logan Simpson, Margaret Burnett, Marco Gerosa, Anita Sarma, How Gender-Biased Tools Shape Newcomer Experiences in OSS Projects, IEEE Transactions on Software Engineering, vol. 48, no. 1, pp. 241-259, 1 Jan. 2022, doi: 10.1109/TSE.2020.2984173.
3) Jonathan Dodge, Andrew Anderson, Roli Khanna, Jed Irvine, Rupika Dikkala, Kin-Ho Lam, Delyar Tabatabai, Anita Ruangrotsakun, Zeyad Shureih, Minsuk Kahng, Alan Fern, Margaret Burnett. From "No Clear Winner" to an Effective XAI Process: An Empirical Journey, Applied AI Letters. 2021, 2(4), Article e36 (10 pages), July 2021.
4) Jonathan Dodge, Roli Khanna, Jed Irvine, Kin-Ho Lam, Theresa Mai, Zhengxian Lin, Nicholas Kiddle, Evan Newman, Andrew Anderson, Sai Raja, Caleb Matthews, Christopher Perdriau, Margaret Burnett, and Alan Fern. After-Action Review for AI (AAR/AI). ACM Transactions on Interactive Intelligent Systems, 11(3-4), December 2021 Article No. 29 (35 pages). https://doi.org/10.1145/3453173.
5) Sean Penney, Jonathan Dodge, Andrew Anderson, Claudia Hilderbrand, Logan Simpson, and Margaret Burnett, The Shoutcasters, the Game Enthusiasts, and the AI: Foraging for Explanations of Real-Time Strategy Players, *ACM Transactions on Interactive Intelligent Systems* 11(1), March 2021, 43 pages.
6) Andrew Anderson, Jonathan Dodge, Amrita Sadarangani, Zoe Juozapaitis, Evan Newman, Jed Irvine, Souti Chattopadhyay, Matthew Olson, Alan Fern, and Margaret Burnett, Mental Models of Mere Mortals with Explanations of Reinforcement Learning, *ACM Transactions on Interactive Intelligent Systems*, Vol. 10(2), 2020, Article 15 (37 pages).
7) Simone Stumpf, Anicia Peters, Shaowen Bardzell, Margaret Burnett, Daniela Busse, Jessica Cauchard and Elizabeth Churchill, Gender-Inclusive HCI Research and Design: A Conceptual Review, *Foundations and Trends® in Human-Computer Interaction* 13(1), 2020, pp. 1-69. http://dx.doi.org/10.1561/1100000056

8) Sruti Srinivasa Ragavan, Mihai Codoban, David Piorkowski, Danny Dig, Margaret Burnett, Version Control Systems: An Information Foraging Perspective, *IEEE Transactions on Software Engineering*, 2019.
9) Sandeep Kaur Kuttal, Anita Sarma, Brooke Shepherd, Gregg Rothermel, Ian Koeppe, Margaret Burnett, How End-User Programmers Debug Visual Web-Based Programs: An Information Foraging Theory Perspective, *Journal of Computer Languages* (Elsevier), 2019.
10) Will Jernigan, Amber Horvath, Michael Lee, Margaret Burnett, Taylor Cuilty, Sandeep Kuttal, Anicia Peters, Irwin Kwan, Faezeh Bahmani, Andrew Ko, Christopher J. Mendez, Alannah Oleson, General Principles for a Generalized Idea Garden, *Journal of Visual Languages and Computing*, Vol. 39, April 2017, 51-65.
11) Margaret Burnett, Simone Stumpf, Jamie Macbeth, Stephann Makri, Laura Beckwith, Irwin Kwan, Anicia Peters, William Jernigan, "GenderMag: A Method for Evaluating Software's Gender Inclusiveness," *Interacting with Computers 28(6)*, October 2016, pp. 760-787, doi:10.1093/iwc/iwv046.
12) Andrew J. Ko, Thomas D. LaToza, Margaret M. Burnett, "A practical guide to controlled experiments of software engineering tools with human participants", *Empirical Software Engineering 20* (1), 110-141, 2015. (Also online at Springer, DOI 10.1007/s10664-013-9279-3.)
13) Jill Cao, Scott Fleming, Margaret Burnett, and Christopher Scaffidi, "Idea Garden: Situated Support for Problem Solving by End-User Programmers", *Interacting with Computers* 27(6), 640-660, November 2015.
14) Alex Groce, Todd Kulesza, Chaoqiang Zhang, Shalini Shamasunder, Margaret Burnett, Weng-Keen Wong, Simone Stumpf, Shubhomoy Das, Amber Shinsel, Forrest Bice, Kevin McIntosh, "You Are the Only Possible Oracle: Effective Test Selection for End Users of Interactive Machine Learning Systems", *IEEE Transactions on Software Engineering* 40(3), March 2014, 307-323.
15) Shubhomoy Das, Travis Moore, Weng-Keen Wong, Simone Stumpf, Ian Oberst, Kevin McIntosh, Margaret Burnett, "End-User Feature Labeling: Supervised and Semi-supervised Approaches Based on Locally-Weighted Logistic Regression", *Artificial Intelligence Journal* 204, Nov. 2013, 56-74.
16) Scott Fleming, Christopher Scaffidi, David Piorkowski, Margaret Burnett, Rachel Bellamy, Joseph Lawrance, Irwin Kwan, "An Information Foraging Theory Perspective on Tools for Debugging, Refactoring, and Reuse Tasks", *ACM Transactions on Software Engineering and Methodology* 22(2), March 2013.
17) Joseph Lawrance, Christopher Bogart, Margaret Burnett, Rachel Bellamy, Kyle Rector, Scott D. Fleming, "How Programmers Debug, Revisited: An Information Foraging Theory Perspective," *IEEE Transactions on Software Engineering*, 39(2), 197-215, February 2013. doi: http://doi.ieeecomputersociety.org/10.1109/TSE.2010.111
18) Valentina Grigoreanu, Margaret Burnett, Susan Wiedenbeck, Jill Cao, Kyle Rector, and Irwin Kwan, "End-User Debugging Strategies: A Sensemaking Perspective," *ACM Transactions on Computer-Human Interaction*, 19(1), Article 5, March 2012 (28 pages).
19) Todd Kulesza, Simone Stumpf, Weng-Keen Wong, Margaret M. Burnett, Stephen Perona, Andrew Ko, Ian Oberst, "Why-Oriented End-User Debugging of Naïve Bayes Text Classification," *ACM Transactions on Interactive Intelligent Systems*, 1(1), 2011.
20) Margaret M. Burnett, Laura Beckwith, Susan Wiedenbeck, Scott D. Fleming, Jill Cao, Thomas H. Park, Valentina Grigoreanu, Kyle Rector, "Gender Pluralism in Problem-

Solving Software", *Interacting with Computers,* 23(5), Elsevier, 450–460, September 2011. doi:10.1016/j.intcom.2011.06.004.

21) Andrew J. Ko, Robin Abraham, Laura Beckwith, Alan Blackwell, Margaret Burnett, Martin Erwig, Joseph Lawrance, Chris Scaffidi, Henry Lieberman, Brad Myers, Mary Beth Rosson, Gregg Rothermel, Mary Shaw, and Susan Wiedenbeck, "The State of the Art in End-User Software Engineering," *ACM Computing Surveys* 43(3), Article 21 (April 2011), 44 pages.
22) Chris Scaffidi, Chris Bogart, Margaret Burnett, Allen Cypher, Brad Myers, Mary Shaw, "Using traits of web macro scripts to predict reuse," *Journal of Visual Languages and Computing* 21(5), December 2010.
23) Margaret Burnett, "End-User Software Engineering and Why It Matters," *Journal of Organizational and End-User Computing* 22(1), 1-22, 2010.
24) Xiaoli Fern, Chaitanya Komireddy, Valentina Grigoreanu, Margaret Burnett, "Mining Problem-Solving Strategies from HCI Data," *ACM Transactions on Computer-Human Interaction* 17(1), 2010.
25) Simone Stumpf, Vidya Rajaram, Lida Li, Weng-Keen Wong, Margaret Burnett, Thomas Dietterich, Erin Sullivan, and Jonathan Herlocker, "Interacting Meaningfully with Machine Learning Systems: Three Experiments," *International Journal of Human-Computer Studies* 67*,* 639-662, 2009.
26) Christoph Neumann, Ronald Metoyer, and Margaret Burnett, "End-User Strategy Programming," *Journal of Visual Languages and Computing* 20(1), 16-29, February 2009.
27) Laura Beckwith, Margaret Burnett, Valentina Grigoreanu, and Susan Wiedenbeck,"Gender HCI: What About the Software?" *Computer* 39(11), 83-87, November 2006.
28) Jason Dagit, Joseph Lawrance, Christoph Neumann, Margaret Burnett, Ronald Metoyer, and Sam Adams, "Using Cognitive Dimensions: Advice from the Trenches," *Journal of Visual Languages and Computing* 17(4), 302-327, August 2006.
29) Marc Fisher II, Mingming Cao, Gregg Rothermel, Darren Brown, Curtis R. Cook, and Margaret M. Burnett, "Integrating Automated Test Generation into the WYSIWYT Spreadsheet Testing Methodology," *ACM Transactions on Software Engineering and Methodology* 15(2), 150-194, April 2006.
30) Joseph R. Ruthruff, Margaret Burnett, and Gregg Rothermel, "Interactive Fault Localization Techniques in an End-User Programming Environment," *IEEE Transactions on Software Engineering* 32(4), 213-239, April 2006.
31) T. J. Robertson, Joseph Lawrance, and Margaret Burnett, "Impact of High-Intensity Negotiated-Style Interruptions on End-User Debugging," *Journal of Visual Languages and Computing* 17(2), 187-202, April 2006.
32) Barbara G. Ryder, Mary Lou Soffa, and Margaret Burnett, "The Impact of Software Engineering Research on Modern Programming Languages," *ACM Transactions on Software Engineering and Methodology* 14(4), 431-477, October 2005.
33) Joseph Ruthruff, Shrinu Prabhakararao, James Reichwein, Curtis Cook, Eugene Creswick, and Margaret Burnett, "Interactive, Visual Fault Localization Support for End-User Programmers," *Journal of Visual Languages and Computing* 16(1-2), 3-40, February/April 2005.
34) Margaret Burnett, Curtis Cook, and Gregg Rothermel, "End-User Software Engineering," *Communications of the ACM* 47(9), 53-58, September 2004.

35) Margaret Burnett, Sherry Yang, and Jay Summet, "A Scalable Method for Deductive Generalization in the Spreadsheet Paradigm," *ACM Transactions on Computer-Human Interaction* 9(4), 253-284, December 2002.
36) Andrew Ko, Margaret Burnett, Thomas Green, Karen Rothermel, and Curtis Cook, "Improving the Design of Visual Programming Language Experiments Using Cognitive Walkthroughs," *Journal of Visual Languages and Computing* 13(5), 517-544, October 2002. (**This made JVLC's "Top 25" most downloaded articles list in 2003 and again in 2004**.)
37) Margaret Burnett, Nanyu Cao, Miguel Arredondo-Castro, and John Atwood, "End-User Programming of Time as an 'Ordinary' Dimension in Grid-Oriented Visual Programming Languages," *Journal of Visual Languages and Computing* 13(4), 421-447, August 2002.
38) Margaret Burnett, Andrei Sheretov, Bing Ren, and Gregg Rothermel, "Testing Homogeneous Spreadsheet Grids with the 'What You See Is What You Test' Methodology," *IEEE Transactions on Software Engineering* 29(6), 576-594, June 2002.
39) Margaret Burnett, John Atwood, Rebecca Walpole Djang, Herkimer Gottfried, James Reichwein, and Sherry Yang, "Forms/3: A First-Order Visual Language to Explore the Boundaries of the Spreadsheet Paradigm," *Journal of Functional Programming*, 11(2), 155-206, March 2001.
40) Gregg Rothermel, Margaret Burnett, Lixin Li, Christopher DuPuis, and Andrei Sheretov, "A Methodology for Testing Spreadsheets," *ACM Transactions on Software Engineering and Methodology* 10(1), 110-147, January 2001.
41) Margaret Burnett, Anurag Agrawal, and Pieter van Zee, "Exception Handling in the Spreadsheet Paradigm," *IEEE Transactions on Software Engineering* 26(10), 923-942, October 2000.
42) Rebecca Walpole Djang, Margaret Burnett, and Roger Chen, "Static Type Inference for a First-Order Declarative Visual Programming Language with Inheritance", *Journal of Visual Languages and Computing*, 191-235, April 2000.
43) Margaret Burnett and Herkimer Gottfried, "Graphical Definitions: Expanding Spreadsheet Languages through Direct Manipulation and Gestures," *ACM Transactions on Computer-Human Interaction* 5(1), 1-33, March 1998.
44) Sherry Yang, Margaret Burnett, Elyon DeKoven, and Moshe Zloof, "Representation Design Benchmarks: A Design-Time Aid for VPL Navigable Static Representations," *Journal of Visual Languages and Computing* 8(5/6), Academic Press, 563-599, October/December 1997.
45) Margaret Burnett, Marla Baker, Carisa Bohus, Paul Carlson, Sherry Yang, Pieter van Zee, "Scaling Up Visual Programming Languages," *Computer* 28(3), IEEE Computer Society, 45-54, March 1995.
46) Margaret Burnett, Richard Hossli, Timothy Pulliam, Brian VanVoorst, and Xiaoyang Yang, "Toward Visual Programming Languages for Steering in Scientific Visualization: a Taxonomy," *IEEE Computational Science and Engineering* 1(4), 44-62, Winter 1994.
47) Margaret Burnett and Marla Baker, "A Classification System for Visual Programming Languages," *Journal of Visual Languages and Computing* 5(3), 287-300, September 1994.

48) Margaret Burnett and Allen Ambler, "Interactive Visual Data Abstraction in a Declarative Visual Programming Language," *Journal of Visual Languages and Computing 5(1)*, 29-60, March 1994.
49) Allen Ambler, Margaret Burnett, and Betsy Zimmerman, "Operational versus Definitional: A Perspective of Programming Paradigms," *Computer* 25(9), 28-43, IEEE Computer Society, September 1992.
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51) Allen Ambler and Margaret Burnett, "Influence of Visual Technology on the Evolution of Language Environments," *Computer* 22(10), IEEE Computer Society, 9-22, October 1989. Reprinted in *Visual Programming Environments: Paradigms and Systems*, (E. Glinert, ed.), IEEE Computer Society Press, 1990.

***Refereed Conference Papers***

52) Amreeta Chatterjee, Lara Letaw, Rosalinda Garcia, Doshna Umma Reddy, Rudrajit Chaudhuri, Sabyatha Satish Kumar, Patricia Morreale, Anita Sarma, and Margaret Burnett. Inclusivity Bugs in Online Courseware: A Field Study. ACM Conference on International Computing Education Research (ICER 2022). August 7-11, 2022, Lugano and Virtual Event, Switzerland. 17 pages.
53) Mariam Guizani, Igor Steinmacher, Jillian Emard, Abrar Fallatah, Margaret Burnett, Anita Sarma, How to Debug Inclusivity Bugs? A Debugging Process with Information Architecture, ACM/IEEE International Conference on Software Engineering (ICSE): SE in Society, May 2022. 12 pages.
54) Jonathan Dodge, Andrew Anderson, Matthew Olson, Rupika Dikkala, Margaret Burnett, How Do People Rank Multiple Mutant Agents? ACM Int. Conf. Intelligent User Interfaces, March 2022. 21 pages.
55) Abrar Fallatah, Brett Stoddard, Margaret Burnett, Heather Knight, Towards User-Centric Robot Furniture Arrangement, 30th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN), August 2021, pp. 1066-1073.
56) Lara Letaw, Rosalinda Garcia, Heather Garcia, Christopher Perdriau, Margaret Burnett, Changing the Online Climate via the Online Students: Effects of Three Curricular Interventions on Online CS Students' Inclusivity, ACM International Computing Education Research Conference, August 2021. 18 pages.
57) Amreeta Chatterjee, Mariam Guizani, Catherine Stevens, Jillian Emard, Mary Evelyn May, Margaret Burnett, Iftekhar Ahmed, Anita Sarma, AID: An Automated Inclusivity-Bug Detector, ACM/IEEE International Conference on Software Engineering (ICSE), May 2021.
58) Theresa Mai, Roli Khanna, Jonathan Dodge, Jed Irvine, Kin-Ho Lam, Zhengxian Lin, Nicholas Kiddle, Evan Newman, Sai Raja, Caleb Matthews, Christopher Perdriau, Margaret Burnett, & Alan Fern, Keeping It "Organized and Logical": After-Action Review for AI (AAR/AI), *ACM Int. Conf. Intelligent User Interfaces*, March 2020.
59) Claudia Hilderbrand, Christopher Perdriau, Lara Letaw, Jillian Emard, Zoe Steine-Hanson, Margaret Burnett, Anita Sarma, Engineering Gender-Inclusivity into Software: Ten Teams' Tales from the Trenches, *ACM/IEEE Int. Conf. Software Engineering*, 2020.
60) Christopher Mendez, Lara Letaw, Margaret Burnett, Simone Stumpf, Anita Sarma, Claudia Hilderbrand, From GenderMag to InclusiveMag: An Inclusive Design Meta-Method, *IEEE*

*Symposium on Visual Languages and Human-Centric Computing*, October 2019, pp. 97-106.

61) Andrew Anderson, Jonathan Dodge, Amrita Sadarangani, Zoe Juozapaitis, Evan Newman, Jed Irvine, Souti Chattopadhyay, Alan Fern, Margaret Burnett, Explaining Reinforcement Learning to Mere Mortals: An Empirical Study, *International Joint Conference on Artificial Intelligence (IJCAI'19)*, Macao, China, August 2019, pp. 1328-1334.
62) Mihaela Vorvoreanu, Lingyi Zhang, Yun-Han Huang, Claudia Hilderbrand, Zoe Steine-Hanson, Margaret Burnett, From Gender Biases to Gender-Inclusive Design: An Empirical Investigation, *2019 CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019)*, May 4-9, 2019, Glasgow, Scotland, UK. ACM, Article 53 (14 pages).
63) Christopher Mendez, Zoe Steine Hanson, Alannah Oleson, Amber Horvath, Charles Hill, Claudia Hilderbrand, Anita Sarma, Margaret Burnett, Semi-Automating (or not) a Socio-Technical Method for Socio-Technical Systems, *IEEE Symposium on Visual Languages and Human-Centric Computing*, October 2018, 10 pages.
64) Alannah Oleson, Christopher Mendez, Zoe Steine-Hanson, Claudia Hilderbrand, Christopher Perdriau, Margaret Burnett and Andrew Ko, Pedagogical Content Knowledge for Teaching Inclusive Design, *ACM International Computing Education Research*, August 2018, pp. 69-77.
65) Christopher Mendez, Hema Susmita Pedala, Zoe Steine-Hanson, Claudia Hilderbrand, Amber Horvath, Charles Hill, Logan Simpson, Nupoor Patil, Anita Sarma, Margaret Burnett, Open Source barriers to entry, revisited: A sociotechnical perspective, *ACM/IEEE International Conference on Software Engineering*, May 2018, 1004-1015.
66) Jonathan Dodge, Sean Penney, Claudia Hilderbrand, Andrew Anderson, Margaret Burnett, How the Experts Do It: Assessing and Explaining Agent Behaviors in Real-Time Strategy Games, *ACM Conference on Human Factors in Computing Systems (CHI'18)*, April 2018.
67) Sean Penney, Jonathan Dodge, Claudia Hilderbrand, Andrew Anderson, Logan Simpson, Margaret Burnett, Toward Foraging for Understanding of StarCraft Agents: An Empirical Study, *ACM International Conference on Intelligent User Interfaces (IUI)*, March 2018, 225-237.
68) David Piorkowski, Sean Penney, Austin Henley, Marco Pistoia, Margaret Burnett, Omer Tripp and Pietro Ferrara, Foraging Goes Mobile: Foraging While Debugging on Mobile Devices, *IEEE Symposium on Visual Languages and Human-Centric Computing*, October 2017. **Best Paper Honorable Mention.**
69) Sruti Srinivasa Ragavan, Bhargav Pandya, David Piorkowski, Charles Hill, Sandeep Kaur Kuttal, Anita Sarma, Margaret Burnett, PFIS-V: Modeling Foraging Behavior in the Presence of Variants, *ACM Conference on Human Factors in Computing Systems (CHI'17)*, May 2017, 6232-6244.
70) Charles Hill, Maren Haag, Alannah Oleson, Chris Mendez, Nicola Marsden, Anita Sarma, Margaret Burnett, Gender-Inclusiveness Personas vs. Stereotyping: Can We Have It Both Ways? *ACM Conference on Human Factors in Computing Systems (CHI'17)*, May 2017, 6658-6671. **Best Paper Honorable Mention.**
71) David Piorkowski, Austin Z. Henley, Tahmid Nabi, Scott D. Fleming, Christopher Scaffidi, Margaret Burnett, Foraging and Navigations, Fundamentally: Developers' Predictions of Value and Cost, *ACM International Symposium on the Foundations of Software Engineering (FSE),* November 2016, 97-108. **Distinguished Paper Award.**
72) Charles Hill, Shannon Ernst, Alannah Oleson, Amber Horvath, and Margaret Burnett, GenderMag Experiences in the Field: The Whole, the Parts, and the Workload, *IEEE*

*Symposium on Visual Languages and Human-Centric Computing (VL/HCC),* September 2016, 199-207.

73) Charles Hill, Rachel Bellamy, Thomas Erickson, and Margaret Burnett, Trials and Tribulations of Developers of Intelligent Systems: A Field Study, *IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC),* September 2016, 162-170.
74) Sruti Srinivasa Ragavan, Sandeep Kaur Kuttal, Charles Hill, Anita Sarma, David Piorkowski, Margaret Burnett, Foraging among an Overabundance of Similar Variants, *ACM Conference on Human Factors in Computing Systems (CHI),* May 2016, 3509-3521. **Best Paper Award.**
75) Dastyni Loksa, Andrew J. Ko, Will Jernigan, Alannah Oleson, Christopher J. Mendez, and Margaret M. Burnett, Programming, Problem Solving, and Self-Awareness: Effects of Explicit Guidance, *ACM Conference on Human Factors in Computing Systems (CHI),* May 2016, 1449-1461.
76) Margaret Burnett, Anicia Peters, Charles Hill, and Noha Elarief, Finding Gender-Inclusiveness Software Issues with GenderMag: A Field Investigation, *ACM Conference on Human Factors in Computing Systems (CHI),* May 2016, 2586-2598. **Best Paper Honorable Mention.**
77) William Jernigan, Amber Horvath, Michael Lee, Margaret Burnett, Taylor Cuilty, Sandeep Kuttal, Anicia Peters, Irwin Kwan, Faezeh Bahmani, Andrew Ko, A Principled Evaluation for a Principled Idea Garden, *IEEE Symposium on Visual Languages and Human-Centric Computing* (October 2015), 235-243.
78) David Piorkowski, Scott D. Fleming, Christopher Scaffidi, Margaret Burnett, Irwin Kwan, Austin Z. Henley, Jamie Macbeth, Charles Hill, Amber Horvath, To Fix or to Learn? How Production Bias Affects Developers' Information Foraging during Debugging, *IEEE ICSME*, September 2015.
79) Todd Kulesza, Margaret Burnett, Weng-Keen Wong, Simone Stumpf, Principles of Explanatory Debugging to Personalize Interactive Machine Learning, *ACM International Conference on Intelligent User Interfaces,* March-April 2015, 12 pages. **Named the Highest Impact Paper at ACM IUI 2021**.
80) Michael J. Lee, Faezeh Bahmani, Irwin Kwan, Jilian LaFerte, Polina Charters, Amber Horvath, Fanny Luor, Jill Cao, Catherine Law, Michael Beswetherick, Sheridan Long, Margaret Burnett, Andrew J. Ko, Principles of a Debugging-First Puzzle Game for Computing Education, *IEEE Symposium on Visual Languages and Human-Centric Computing*, Melbourne, Australia, August 2014, pp. 57-64.
81) Todd Kulesza, Simone Stumpf, Margaret Burnett, Sherry Yang, Irwin Kwan, Weng-Keen Wong, Too Much, Too Little, or Just Right? Ways Explanations Impact End Users' Mental Models, *IEEE Symposium on Visual Languages and Human-Centric Computing*, San Jose, CA, September 2013.
82) Jill Cao, Irwin Kwan, Faezeh Bahmani, Margaret Burnett, Scott D. Fleming, Josh Jordahl, Amber Horvath, Sherry Yang, End-User Programmers in Trouble: Can the Idea Garden help them to help themselves? *IEEE Symposium on Visual Languages and Human-Centric Computing*, San Jose, CA, September 2013.
83) David Piorkowski, Scott Fleming, Irwin Kwan, Margaret Burnett, Christopher Scaffidi, Rachel Bellamy, Joshua Jordahl, The Whats and Hows of Programmers' Foraging Diets, *ACM Conference on Human Factors in Computing Systems (CHI),* April/May 2013, pp. 3063-3072.
84) Jill Cao, Irwin Kwan, Rachel White, Scott D. Fleming, Margaret Burnett, Christopher Scaffidi, From Barriers to Learning in the Idea Garden: An Empirical Study, *IEEE*

*Symposium on Visual Languages and Human-Centric Computing*, Innsbruck, Austria, September 2012, 59-66.

85) Todd Kulesza, Simone Stumpf, Margaret Burnett, Irwin Kwan, Tell Me More? The Effects of Mental Model Soundness on Personalizing an Intelligent Agent, *ACM Conference on Human Factors in Computing Systems (CHI),* May 2012. **Best Paper Honorable Mention.**
86) Christopher Bogart, Margaret Burnett, Scott Douglass, Rachel White, Hannah Adams, Designing a debugging interaction language: An initial case study in Natural Programming Plus, *ACM Conference on Human Factors in Computing Systems (CHI),* May 2012.
87) David Piorkowski, Scott D. Fleming, Christopher Scaffidi, Christopher Bogart, Margaret Burnett, Bonnie E. John, Rachel K. E. Bellamy, Calvin Swart, Reactive Information Foraging: An Empirical Investigation of Theory-Based Recommender Systems for Programmers, *ACM Conference on Human Factors in Computing Systems (CHI),* May 2012.
88) Jill Cao, Scott D. Fleming, Margaret Burnett, An Exploration of Design Opportunities for "Gardening" End-User Programmers' Ideas, *IEEE Symposium on Visual Languages and Human-Centric Computing*, Pittsburg, PA, September 2011. **Best Paper Award.**
89) David Piorkowski, Scott D. Fleming, Christopher Scaffidi, Liza John, Christopher Bogart, Bonnie E. John, Margaret Burnett, Rachel Bellamy, Modeling Programmer Navigation: A head-to-head empirical evaluation of predictive models, *IEEE Symposium on Visual Languages and Human-Centric Computing*, Pittsburg, PA, September 2011, pp. 109-116. **Named the Most Influential Paper at VLHCC'22.**
90) Amber Shinsel, Todd Kulesza, Margaret Burnett, William Curran, Alex Groce, Simone Stumpf, Weng-Keen Wong, Mini-Crowdsourcing End-User Assessment of Intelligent Assistants: A Cost-Benefit Study, *IEEE Symposium on Visual Languages and Human-Centric Computing*, Pittsburg, PA, September 2011.
91) Weng-Keen Wong, Ian Oberst, Shubhomoy Das, Travis Moore, Simone Stumpf, Kevin McIntosh, Margaret Burnett, End-User Feature Labeling via Locally Weighted Logistic Regression, *Twenty-Fifth AAAI Conference on Artificial Intelligence (Nectar Track)*, San Francisco, CA, August 2011, pp. 1575-1578.
92) Todd Kulesza, Margaret Burnett, Simone Stumpf, Weng-Keen Wong, Shubhomoy Das, Alex Groce, Amber Shinsel, Forrest Bice, Kevin McIntosh, "Where Are My Intelligent Assistant's Mistakes? A Systematic Testing Approach," *Third International Symposium on End-User Development, Lecture Notes in Computer Science 6654*, Torre Canne (Brindisi), Italy, June 2011, pp. 171-186.
93) Weng-Keen Wong, Ian Oberst, Shubhomoy Das, Travis Moore, Simone Stumpf, Kevin McIntosh, Margaret Burnett, "End-User Feature Labeling: A Locally-Weighted Regression Approach," *ACM International Conference on Intelligent User Interfaces*, February 2011, pp. 115-124. **Best Paper Nominee**.
94) Jill Cao, Kyle Rector, Thomas H. Park, Scott D. Fleming, Margaret Burnett, Susan Wiedenbeck, "A Debugging Perspective on End-User Mashup Programming," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Madrid, Spain, September 2010, pp. 149-156.
95) Christopher Bogart, Margaret Burnett, Scott Douglass, David Piorkowski, Amber Shinsel, "Does my model work? Evaluation abstractions of cognitive modelers," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Madrid, Spain, September 2010, pp. 49-56.

96) Todd Kulesza, Simone Stumpf, Margaret Burnett, Weng-Keen Wong, Yann Riche, Travis Moore, Ian Oberst, Amber Shinsel, Kevin McIntosh, "Explanatory Debugging: Supporting End-User Debugging of Machine-Learned Programs," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Madrid, Spain, September 2010, pp. 41-48. **Named the Most Influential Paper at VLHCC'21.**
97) Margaret Burnett, Scott D. Fleming, Shamsi Iqbal, Gina Venolia, Vidya Rajaram, Umer Farooq, Valentina Grigoreanu, Mary Czerwinski, "Gender Differences and Programming Environments: Across Programming Populations," *ACM-IEEE Empirical Software Engineering and Measurement (ESEM)*, Bolzano-Bozen, Italy, September 16–17, 2010, Article no. 28, 10 pages.
98) Joseph Lawrance, Margaret Burnett, Rachel Bellamy, Christopher Bogart, and Calvin Swart, "Reactive Information Foraging for Evolving Goals," *ACM Conference on Human Factors in Computing Systems (CHI),* April 2010.
99) Jill Cao, Yann Riche, Susan Wiedenbeck, Margaret Burnett, and Valentina Grigoreanu, "End-User Mashup Programming: Through the Design Lens," *ACM Conference on Human Factors in Computing Systems (CHI),* April 2010. **Best Paper Honorable Mention**.
100) Valentina Grigoreanu, Margaret Burnett, and George Robertson, "A Strategy-Centric Approach to the Design of End-User Debugging Tools," ACM Conference on Human Factors in Computing Systems (CHI), April 2010. Acceptance rate: 22%
101) Christopher Scaffidi, Christopher Bogart, Margaret Burnett, Allen Cypher, Brad Myers, Mary Shaw,"Predicting Reuse of End-User Web Macro Scripts," IEEE Symposium on Visual Languages and Human-Centric Computing, Corvallis, Oregon, September 2009. Acceptance rate: 26%
102) Valentina Grigoreanu, James Brundage, Eric Bahna, Margaret Burnett, Paul ElRif, Jeffrey Snover, "Males' and Females' Script Debugging Strategies," Second International Symposium on End-User Development, Siegen, Germany, March 2-4, 2009.
103) Todd Kulesza, Weng-Keen Wong, Simone Stumpf, Stephen Perona, Rachel White, Margaret Burnett, Ian Oberst, Andrew J. Ko, "Fixing the Program My Computer Learned: Barriers for End Users, Challenges for the Machine, " ACM Conference on Intelligent User Interfaces, Sanibel Island, Florida, Feb. 8-11, 2009, pp. 187-196. accepted 34/134 = 25%.
104) Neeraja Subrahmaniyan, Margaret Burnett, and Christopher Bogart, "Software Visualization for End-User Programmers: Trial Period Obstacles," *ACM Symposium on Software Visualization*, Herrsching am Ammersee, Germany, Sept. 2008, pp. 135-144.
105) Joseph Lawrance, Rachel Bellamy, Margaret Burnett, Kyle Rector, "Can Information Foraging Pick the Fix? A Field Study," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Herrsching am Ammersee, Germany, Sept. 2008, pp. 57-64.
106) Valentina Grigoreanu, Jill Cao, Todd Kulesza, Christopher Bogart, Kyle Rector, Margaret Burnett, and Susan Wiedenbeck, "Can Feature Design Reduce the Gender Gap in End-User Software Development Environments?" *IEEE Symposium on Visual Languages and Human-Centric Computing*, Herrsching am Ammersee, Germany, Sept. 2008, pp. 149-156.
107) Christopher Bogart, Margaret Burnett, Allen Cypher, and Christopher Scaffidi, "End-User Programming in the Wild: A Field Study of CoScripter Scripts", *IEEE Symposium on Visual Languages and Human-Centric Computing*, Herrsching am Ammersee, Germany, Sept. 2008, pp. 39-46.
108) Neeraja Subrahmaniyan, Laura Beckwith, Valentina Grigoreanu, Margaret Burnett, Susan Wiedenbeck, Vaishnavi Narayanan, Karin Bucht, Russell Drummond, and Xiaoli Fern, "Testing vs. Code Inspection vs. ... What Else? Male and Female End Users'

Debugging Strategies," *ACM Conference on Human Factors in Computing Systems*, April 2008, pp. 617-626.

109) Joseph Lawrance, Rachel Bellamy, Margaret Burnett, Kyle Rector, "Using Information Scent to Model the Dynamic Foraging Behavior of Programmers in Maintenance Tasks," *ACM Conference on Human Factors in Computing Systems*, April 2008, pp. 1323-1332. **Best Paper Honorable Mention**.

110) Simone Stumpf, Erin Sullivan, Erin Fitzhenry, Ian Oberst, Weng-Keen Wong, Margaret Burnett, "Integrating Rich User Feedback into Intelligent User Interfaces," *ACM International Conference on Intelligent User Interfaces*, January 2008, pp. 50-59.

111) Xiaoli Fern, Chaitanya Komireddy and Margaret Burnett, "Mining Interpretable Human Strategies: A Case Study," *IEEE International Conference on Data Mining*, Omaha NE, October 2007.

112) Joseph Lawrance, Rachel Bellamy, Margaret Burnett, "Scents in Programs: Does Information Foraging Theory Apply to Program Debugging?" *IEEE Symposium on Visual Languages and Human-Centric Computing*, Coeur d'Alene, Idaho, September 2007, pp. 15-22.

113) Neeraja Subrahmaniyan, Cory Kissinger, Kyle Rector, Derek Inman, Jared Kaplan, Laura Beckwith, and Margaret Burnett, "Explaining Debugging Strategies to End-User Programmers," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Coeur d'Alene, Idaho, September 2007, pp. 127-134.

114) Laura Beckwith, Derek Inman, Kyle Rector, and Margaret Burnett, "On to the Real World: Gender and Self-Efficacy in Excel," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Coeur d'Alene, Idaho, September 2007, pp. 119-126. Simone Stumpf, Vidya Rajaram, Lida Li, Margaret Burnett, Thomas Dietterich, Erin Sullivan, Russell Drummond, Jonathan Herlocker, "Toward Harnessing User Feedback For Machine Learning," *ACM International Conference on Intelligent User Interfaces*, Honolulu, HI, January 28-31, 2007.

116) Marc Fisher, Gregg Rothermel, Tyler Creelan and Margaret Burnett, "Scaling a Dataflow Testing Methodology to the Multiparadigm World of Commercial Spreadsheets", *IEEE International Symposium on Software Reliability Engineering*, Raleigh, NC, November 2006.

117) Joseph Lawrance, Robin Abraham, Margaret Burnett, Martin Erwig, "Sharing reasoning about faults in spreadsheets: An empirical study", *IEEE Symposium on Visual Languages and Human-Centric Computing*, Sept. 2006, 35-42.

118) Thippaya Chintakovid, Susan Wiedenbeck, Margaret Burnett, Valentina Grigoreanu, "Pair Collaboration in End-User Debugging", *IEEE Symposium on Visual Languages and Human-Centric Computing*, Sept. 2006, 3-10.

119) Valentina Grigoreanu, Laura Beckwith, Xiaoli Fern, Sherry Yang, Chaitanya Komireddy, Vaishnavi Narayanan, Curtis Cook, Margaret Burnett, "Gender Differences in End-User Debugging, Revisited: What the Miners Found", IEEE Symposium on Visual Languages and Human-Centric Computing, Sept. 2006, 19-26. Accepted 14/56 = 25%

120) Cory Kissinger, Margaret Burnett, Simone Stumpf, Neeraja Subrahmaniyan, Laura Beckwith, Sherry Yang, and Mary Beth Rosson, "Supporting End-User Debugging: What Do Users Want to Know?" Proceedings Advance Visual Interfaces, ACM Press, Venice, Italy, May 2006. (25% acceptance rate).

121) Laura Beckwith, Cory Kissinger, Margaret Burnett, Susan Wiedenbeck, Joseph Lawrance, Alan Blackwell, Curtis Cook, "Tinkering and Gender in End-User

Programmers' Debugging," *ACM Conference on Human Factors in Computing Systems (CHI'06)*, Montreal, Canada, 231-240, April 2006.

122) Amit Phalgune, Cory Kissinger, Margaret Burnett, Curtis Cook, Laura Beckwith, and Joseph R. Ruthruff, "Garbage In, Garbage Out? An Empirical Look at Oracle Mistakes by End-User Programmers," *IEEE Symposium on Visual Languages and Human-Centric Computing*, 45-52, September 2005.

123) Laura Beckwith, Shraddha Sorte, Margaret Burnett, Susan Wiedenbeck, Thippaya Chintakovid, and Curtis Cook, "Designing Features for Both Genders in End-User Software Engineering Environments," *IEEE Symposium on Visual Languages and Human-Centric Computing*, 153-160, September 2005.

124) Joseph Lawrance, Steven Clarke, Margaret Burnett, and Gregg Rothermel, "How Well Do Professional Developers Test with Code Coverage Visualizations?" An Empirical Study, *IEEE Symposium on Visual Languages and Human-Centric Computing*, 53-60, September 2005.

125) Joseph Ruthruff, Margaret Burnett, and Gregg Rothermel, "An Empirical Study of Fault Localization for End-User Programmers," *International Conference on Software Engineering*, St. Louis, MO, 352-361, May 2005.

126) Laura Beckwith, Margaret Burnett, Susan Wiedenbeck, Curtis Cook, Shraddha Sorte, Michelle Hastings, "Effectiveness of End-User Debugging Software Features: Are There Gender Issues?" *ACM Conference on Human Factors in Computing Systems (CHI'05)*, Portland, Oregon, 869-878, April 2005.

127) Joseph Ruthruff, Amit Phalgune, Laura Beckwith, Margaret Burnett, and Curtis Cook, "Rewarding 'Good' Behavior: End-User Debugging and Rewards," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Rome, Italy, 115-122, September 2004.

128) Laura Beckwith and Margaret Burnett, "Gender: An Important Factor in End-User Programming Environments?" *IEEE Symposium on Visual Languages and Human-Centric Computing*, Rome, Italy, 107-114, September 2004. **Won "Most Influential Paper Award: 10-Year Category"** at *IEEE Symposium on Visual Languages and Human-Centric Computing*, 2015.

129) Alan Blackwell, Margaret Burnett, and Simon Peyton Jones, "Champagne Prototyping: A Research Technique for Early Evaluation of Complex End-User Programming Systems," *IEEE Symposium on Visual Languages and Human-Centric Computing*, Rome, Italy, 47-54, September 2004.

130) T. J. Robertson, Shrinu Prabhakararao, Margaret Burnett, Curtis Cook, Joseph R. Ruthruff, Laura Beckwith, and Amit Phalgune, "Impact of Interruption Style on End-User Debugging," *ACM Conference on Human Factors in Computing Systems (CHI'04)*, Vienna, Austria, 287-294, April 24-29, 2004.

131) Darren Brown, Margaret Burnett, and Gregg Rothermel, "Generalizing WYSIWYT Visual Testing to Screen Transitions Diagrams," *IEEE Symposium on Human-Centric Languages*, Auckland, New Zealand, 203-210, October 2003.

132) S. Prabhakararao, C. Cook, J. Ruthruff, E. Creswick, M. Main, M. Durham, and M. Burnett, "Strategies and Behaviors of End-User Programmers with Interactive Fault Localization," *IEEE Symposium on Human-Centric Languages*, Auckland, New Zealand, 15-22, October 2003.

133) Simon Peyton Jones, Alan Blackwell, and Margaret Burnett, "A user-centred approach to functions in Excel," *ACM International Conference on Functional Programming*, Uppsala, Sweden, 165-176, August 25-29, 2003.

134) J. Ruthruff, E. Creswick, M. Burnett, C. Cook, S. Prabhakararao, M. Fisher, M. Main, "End-User Software Visualizations for Fault Localization," *ACM Symposium on Software Visualization*, San Diego, CA, 123-132, June 2003.

135) Margaret Burnett, Curtis Cook, Omkar Pendse, Gregg Rothermel, Jay Summet, and Christine Wallace, "End-User Software Engineering with Assertions in the Spreadsheet Paradigm," *International Conference on Software Engineering*, Portland, Oregon, 93-103, May 2003.

136) A. Wilson, M. Burnett, L. Beckwith, O. Granatir, L. Casburn, C. Cook, M. Durham, and G. Rothermel, "Harnessing Curiosity to Increase Correctness in End-User Programming," *ACM Conference on Human Factors in Computing Systems (CHI'03)*, Fort Lauderdale, Florida, 305-312, April 5-10, 2003.

137) Marc Fisher II, Dalai Jin, Gregg Rothermel, and Margaret Burnett, "Test Reuse in the Spreadsheet Paradigm," *IEEE International Symposium on Software Reliability Engineering*, Annapolis, MD, Nov. 12-15, 2002.

138) Laura Beckwith, Margaret Burnett, and Curtis Cook, "Reasoning about Many-to-Many Requirement Relationships in Spreadsheets," *IEEE Symposium on Human-Centric Languages*, Sept. 2002.

139) Margaret Burnett and Martin Erwig,"Visually Customizing Inference Rules About Apples and Oranges," *IEEE Symposium on Human-Centric Languages*, Sept. 2002.

140) Marc Fisher, Mingming Cao, Gregg Rothermel, Curtis Cook, and Margaret Burnett, "Automated Test Case Generation for Spreadsheets," *International Conference on Software Engineering*, Orlando, Florida, 141-151, May 19-25, 2002.

141) Martin Erwig and Margaret Burnett, "Adding Apples and Oranges," *Fourth International Symposium on Practical Aspects of Declarative Languages*, January 2002.

142) Vijay Krishna, Curtis Cook, Daniel Keller, Joshua Cantrell, Chris Wallace, Margaret Burnett, and Gregg Rothermel, "Incorporating Incremental Validation and Impact Analysis into Spreadsheet Maintenance: An Empirical Study," *IEEE International Conference on Software Maintenance*, Florence, Italy, 72-81, November 2001.

143) Margaret Burnett, Sudheer Chekka, Rajeev Pandey, "FAR: An End-User Language to Support Cottage E-Services," *IEEE Symposium on Human-Centric Languages*, Stresa, Italy, 195-202, Sept. 2001.

144) Margaret Burnett, Bing Ren, Andrew Ko, Curtis Cook, and Gregg Rothermel, "Visually Testing Recursive Programs in Spreadsheet Languages," *IEEE Symposium on Human-Centric Languages*, Stresa, Italy, 288-295, Sept. 2001.

145) T. R. G. Green, M. M. Burnett, A. J. Ko, K. J. Rothermel, C. R. Cook, J. Schonfeld, "Using the Cognitive Walkthrough to Improve the Design of a Visual Programming Experiment," *IEEE Symposium on Visual Languages*, Seattle, WA, 172-179, September 2000.

146)Margaret Burnett, Nanyu Cao, and John Atwood, "Time in Grid-Oriented VPLs: Just Another Dimension?" *IEEE Symposium on Visual Languages*, Seattle, WA, 137-144, September 2000.

147) Karen Rothermel, Curtis Cook, Margaret Burnett, Justin Schonfeld, Thomas Green, and Gregg Rothermel, "WYSIWYT Testing in the Spreadsheet Paradigm: An Empirical Evaluation," *International Conference on Software Engineering*, Limerick, Ireland, 230-239, June 2000.

148) James Reichwein, Gregg Rothermel, and Margaret Burnett, "Slicing Spreadsheets: An Integrated Methodology for Spreadsheet Testing and Debugging," *Conference on Domain Specific Languages (DSL'99)*, Austin, Texas, 25-38, October 3-5, 1999.

149) Margaret Burnett, Andrei Sheretov, and Gregg Rothermel, "Scaling Up a 'What You See Is What You Test' Methodology to Testing Spreadsheet Grids," *1999 IEEE Symposium on Visual Languages*, Tokyo, Japan, 30-37, Sept. 13-16, 1999.
150) Margaret Burnett, John Atwood, Zachary Welch, "Implementing Level 4 Liveness in Declarative Visual Programming Languages," *1998 IEEE Symposium on Visual Languages*, Halifax, Nova Scotia, Canada, 126-133, Sept. 1-4, 1998.
151) Rebecca Walpole Djang and Margaret Burnett, "Similarity Inheritance: A New Model of Inheritance for Spreadsheet VPLs," *1998 IEEE Symposium on Visual Languages*, Halifax, Nova Scotia, Canada, 134-141, Sept. 1-4, 1998.
152) Gregg Rothermel, Lixin Li, Christopher DuPuis, and Margaret Burnett, "What You See Is What You Test: A Methodology for Testing Form-Based Visual Programs," *International Conference on Software Engineering (ICSE'98)*, Kyoto, Japan, 198-207, April 19-25, 1998.
153) Gregg Rothermel, Lixin Li, and Margaret Burnett, "Testing Strategies for Form-Based Visual Programs," *International Symposium on Software Reliability Engineering (ISSRE'97)*, Albuquerque, NM, 96-107, November 2-5, 1997.
154) Curtis Cook, Margaret Burnett, Derrick Boom, "A Bug's Eye View of Immediate Visual Feedback in Direct-Manipulation Programming Systems," *Empirical Studies of Programmers*, Alexandria, VA, Oct. 24-26, 1997.
155) Herkimer Gottfried and Margaret Burnett, "Programming Complex Objects in Spreadsheets: An Empirical Study Comparing Textual Formula Entry with Direct Manipulation and Gestures," *Empirical Studies of Programmers*, Alexandria, VA, Oct. 24-26, 1997.
156) Herkimer Gottfried and Margaret Burnett, "Graphical Definitions: Making Spreadsheets Visual through Direct Manipulations and Gestures," *1997 IEEE Symposium on Visual Languages*, Capri, Italy, 246-253, September 1997.
157) Rebecca Walpole and Margaret Burnett, "Supporting Reuse of Evolving Visual Code," *1997 IEEE Symposium on Visual Languages*, Capri, Italy, 68-75, September 1997.
158) Eric Wilcox, John Atwood, Margaret Burnett, J. J. Cadiz, and Curtis Cook, "Does Continuous Visual Feedback Aid Debugging in Direct-Manipulation Programming Systems?" *ACM Proceedings CHI'97: Conference on Human Factors in Computing Systems*, 258-265, Mar. 1997.
159) John Atwood, Margaret Burnett, Rebecca Walpole, Eric Wilcox, and Sherry Yang, "Steering Programs via Time Travel," *1996 IEEE Symposium on Visual Languages*, 4-11, September 1996.
160) Pieter van Zee, Margaret Burnett, and Maureen Chesire, "Retire Superman: Handling Exceptions Seamlessly in a Declarative Visual Programming Language," *1996 IEEE Symposium on Visual Languages*, 222-230, September 1996.
161) Paul Carlson, Margaret Burnett, and Jonathan Cadiz, "A Seamless Integration of Algorithm Animation into a Visual Programming Language," *ACM Proceedings of AVI'96, International Workshop on Advanced Visual Interfaces*, Gubbio, Italy, 194-202, May 1996.
162) Sherry Yang and Margaret Burnett, "From Concrete Forms to Generalized Abstractions through Perspective-Oriented Analysis Of Logical Relationships," *1994 IEEE Symposium on Visual Languages*, St. Louis, Missouri, 6-14, October 4-7, 1994.

163) Margaret Burnett, "Types and Type Inference in a Visual Programming Language," *1993 IEEE Symposium on Visual Languages*, Bergen, Norway, 238-243, August 24-27, 1993.

164) Rajeev Pandey and Margaret Burnett, "Is It Easier to Write Matrix Manipulation Programs Visually or Textually? An Empirical Study," *1993 IEEE Symposium on Visual Languages*, Bergen, Norway, 344-351, August 24-27, 1993.

165) Margaret Burnett and Allen Ambler, "A Declarative Approach to Event-Handling in Visual Programming Languages," *1992 IEEE Workshop on Visual Languages*, Seattle, 34-40, September 1992. **Won "Most Influential Paper Award: 20-Year Category"** at *IEEE Symposium on Visual Languages and Human-Centric Computing*, 2011.

166) Margaret Burnett and Allen Ambler, "Generalizing Event Detection and Response in Visual Programming Languages," *Advanced Visual Interfaces: An International Workshop*, Rome, Italy, May 27-29, 1992, World Scientific Series in Computer Science 36, (T. Catarci, M. F. Costabile, S. Levialdi, eds.), World Scientific Press, Singapore, 334-347, 1993.

167) Margaret Burnett and Allen Ambler, "Efficiency Issues in a Class of Visual Languages," *1990 IEEE Workshop on Visual Languages*, Skokie, Illinois, 209-214, October 1990.

168) Allen Ambler and Margaret Burnett, "Visual Languages and the Conflict Between Single Assignment and Iteration," *1989 IEEE Workshop on Visual Languages*, Rome, Italy, 138-143, October 1989.

***Other Peer-Reviewed Papers***

169) Fabio Paternò, Margaret Burnett, Gerhard Fischer, Maristella Matera, Brad Myers, Albrecht Schmidt, Artificial Intelligence versus End-User Development: A Panel on What Are the Tradeoffs in Daily Automations? IFIP Conference on Human-Computer Interaction, 340-343, Aug. 2021.

170) Rupika Dikkala, Roli Khanna, Caleb Matthews, Jonathan Dodge, Sai Raja, Catherine Hu, Jed Irvine, Zeyad Shureih, Kin-Ho Lam, Andrew Anderson, Minsuk Kahng, Alan Fern, and Margaret Burnett, Doing remote controlled studies with humans: Tales from the COVID trenches, *ACM/IEEE 14th International Conference on Cooperative and Human Aspects of Software Engineering* (CHASE 2021), May 2021, pp. 113-116.

171) M. Guizani, L. Letaw, M. Burnett and A. Sarma, Gender inclusivity as a quality requirement: Practices and pitfalls, *IEEE Software*, 37(6), pp. 7-11, Nov.-Dec. 2020. doi: 10.1109/MS.2020.3019540.

172) Margaret Burnett, Zoe Steine-Hanson, Alannah Oleson, The GenderMag Teach Project, *EduCHI workshop, CHI'19 Extended Abstracts*, Glasgow, Scotland, UK, May 2019. 5 pages.

173) Christopher Mendez, Andrew Anderson, Brijesh Bhuva, Margaret Burnett, The GenderMag Recorder's Assistant, *IEEE Symposium on Visual Languages and Human-Centric Computing*, October 2018, 2 pages.

174) Christopher Mendez, Anita Sarma, Margaret Burnett, Gender in Open Source Software: What the tools tell, 2018 ACM/IEEE 1st International Workshop on Gender Equality in Software Engineering, May 2018, 21-24.

175) Margaret Burnett, Todd Kulesza, Alannah Oleson, Shannon Ernst, Laura Beckwith, Jill Cao, William Jernigan, Valentina Grigoreanu, Toward Theory-Based End-User Software Engineering, in *New Perspectives in End-User Development* (F. Paterno and V. Wulf, eds.), Springer, 2017.

176) Margaret Burnett, Elizabeth Churchill, and Michael Lee, SIG: Gender-Inclusive Software: What We Know About Building It, *CHI'15 Extended Abstracts on Human Factors in Computing Systems*, 2015.

177) Margaret Burnett and Todd Kulesza, End-User Development in Internet of Things: We the People, *CHI'15 Workshop on End-User Development in the Internet of Things Era*, April 2015.

178)Susan Dray, Daniela Busse, Anke Brock, Anicia Peters, Shaowen Bardzell, Allison Druin, Margaret Burnett, Elizabeth Churchill, Gayna Williams, Karen Holtzblatt, Dianne Murray, Perspectives on Gender and Product Design, *CHI'14 Extended Abstracts on Human Factors in Computing Systems*, 2014, 53-56.

179) William Curran, Travis Moore, Todd Kulesza, Weng-Keen Wong, Sinisa Todorovic, Simone Stumpf, Rachel White, and Margaret Burnett, Towards Recognizing "Cool": Can End Users Help Computer Vision Recognize Subjective Attributes of Objects in Images? *ACM Int. Conference on Intelligent User Interfaces,* February 2012. (Short paper).

180) Margaret Burnett, End-User Software Engineering and Why It Matters. In A. Dwivedi, & S. Clarke (Eds.), *End-User Computing, Development, and Software Engineering: New Challenges*. pp. 185-201, 2012. doi:10.4018/978-1-4666-0140-6.ch009. (This is a reprint of a 2010 journal paper of the same name.)

181) End-User Feature Labeling via Locally Weighted Logistic Regression. Wong, W-K., Oberst, I., Das, S., Moore, T., Stumpf, S., McIntosh, K., and Burnett, M. Proceedings of the Twenty-Fifth AAAI Conference on Artificial Intelligence (NECTAR Track), 2011

182) "Gender in End-User Software Engineering," Margaret Burnett, Susan Wiedenbeck, Valentina Grigoreanu, Neeraja Subrahmaniyan, Laura Beckwith, Cory Kissinger, *Workshop on End-User Software Engineering* (WEUSE IV) at ICSE'08, Leipzig, Germany, 2008.

183) "Improving intelligent assistants for desktop activities," Simone Stumpf, Margaret Burnett, Tom Dietterich, *AAAI Conference on Artificial Intelligence (AAAI'07)*, Vancouver, BC, Canada, July 2007.

184) "Gender HCI: Results To Date Regarding Issues in Problem-Solving Software", Laura Beckwith, Margaret Burnett, Susan Wiedenbeck, Valentina Grigoreanu, *Workshop Proceedings of Gender and Interaction: Real and Virtual Women in a Male World,* Venice, Italy, 1-4, May 2006.

185) "Gender and End-User Computing", Laura Beckwith, Margaret Burnett, and Shraddha Sorte, *Encyclopedia of Gender and Information Technology*, Information Science Publishing, 2006.

186) "An Integrated Software Engineering Approach for End-User Programmers," Margaret Burnett, Gregg Rothermel, and Curtis Cook, in *End User Development*, (H. Lieberman, F. Paterno, and V. Wulf, eds.), Springer, 87-113, 2006.

187) "TaskTracer: Using Machine Learning to Simplify Multi-tasking," Margaret Burnett, Jon Herlocker, Julie Lynn, Simone Stumpf, and Eleanor Wynn, Intel Information Systems and Technology Group Technical Community Conference, Lake Tahoe, Oct. 24-26, 2005.

188) "Mining Qualitative Behavioral Data from Quantitative Data: A Case Study from the Gender HCI Project," Laura Beckwith, Thippaya Chintakovid, Susan Wiedenbeck, and Margaret Burnett, *Proc. Psychology of Programmers Interest Group PPIG 2005 17th Annual Workshop*, Brighton, UK, June 2005.

189) "Six Challenges in Supporting End-User Debugging," Joseph Ruthruff and Margaret Burnett, *Workshop on End-User Software Engineering*, St. Louis, Missouri, May 2005.

190) "Visual Programming," Joseph Ruthruff and Margaret Burnett, in *Encyclopedia of Human Factors in Computing Systems ,* vol. 2, (William Bainbridge, ed.), Berkshire Publishing Group, 791-795, 2004.
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192) "HCI Research Regarding End-User Requirement Specification: A Tutorial," Margaret Burnett, *Knowledge-Based Systems* 16(7-8), Elsevier, 341-349, November 2003. (This paper made the journal's "most downloaded" list in 2004.)
193) "End-User Testing for the Lyee Methodology Using the Screen Transition Paradigm and WYSIWYT," Darren Brown, Margaret Burnett, and Gregg Rothermel, *Knowledge-Based Systems* 16(7-8), Elsevier, 431-440, November 2003.
194) "Representation and Coverage Characteristics of WYSIWYT for Lyee," Darren Brown, Margaret Burnett, and Gregg Rothermel, *International Workshop on Lyee Methodology*, Stockholm, Sweden, 287-302, September 2003.
195) "Software Engineering for End-User Programmers," M. Burnett, G. Rothermel, C. Cook, Perspectives in End-User Development Workshop at CHI'03, April 2003.
196) "End-User Testing of Lyee Programs: A Preliminary Report," Darren Brown, Margaret Burnett, and Gregg Rothermel, *International Workshop on Lyee Methodology*, Paris, France, October 2002.
197) "Assertions in End-User Software Engineering: A Think-Aloud Study" (Tech Note), Christine Wallace, Curtis Cook, Jay Summet, and Margaret Burnett, *IEEE Symposium on Human-Centric Languages*, Sept. 2002.
198) "Applying Attention Economics to End-User Programming" (Tech Note), Alan Blackwell and Margaret Burnett, *IEEE Symposium on Human-Centric Languages*, Sept. 2002.
199) "Software Engineering for Visual Programming Languages", Margaret Burnett, *Handbook of Software Engineering and Knowledge Engineering* Vol. 2, (S.-K. Chang, Ed.), World Scientific Publishing Co., 77-92, June 2002.
200)"What Visual Programming Research Contributes to Universal Access," M. Burnett, *HCI International: Conference on Universal Access in Human Factors in Computing Systems* Vol. 3, New Orleans, 257-260, Aug. 5-10, 2001.
201)"Visual Programming", Margaret Burnett, *Encyclopedia of Electrical and Electronics Engineering* (John G. Webster, Ed.), 275-283, John Wiley & Sons, 1999.
202)"Seven Programming Language Issues," Margaret Burnett, in *Visual Object-Oriented Programming: Concepts and Environments*, (Margaret Burnett, Adele Goldberg, Ted Lewis, eds.), Prentice-Hall, Englewood Cliffs, NJ, 1995.
203)"What is Visual Object-Oriented Programming?" Adele Goldberg, Margaret Burnett, and Ted Lewis, in *Visual Object-Oriented Programming: Concepts and Environments*, (Margaret Burnett, Adele Goldberg, Ted Lewis, eds.), Prentice-Hall, Englewood Cliffs, NJ, 1995.
204)"A Seamless Integration of Algorithm Animation into a Visual Programming Language with One-Way Constraints," Paul Carlson and Margaret Burnett, *International Workshop on Constraints for Graphics and Visualization*, Cassis, France, September 1995.
205)"Integrating Algorithm Animation into a Declarative Visual Programming Language" (Refereed poster paper), Paul Carlson and Margaret Burnett, 1995 IEEE Symposium on Visual Languages, 126-127, September 1995.

206)"Programming Language Issues of Visual Object-Oriented Programming Languages: a Case Study with Forms/3," Margaret Burnett, *Proceedings of the OOPSLA'93 Post-Conference Workshop on Visual Object-Oriented Programming*, Washington, D.C., October 1993.

207)"A Visual Future for Object-Oriented Programming Languages?" Margaret Burnett, *Proceedings of the OOPSLA'92 Pre-Conference Workshop on Object-Oriented Languages: The Next Generation*, Vancouver, Canada, October 1992.

***Invited/Position Papers***

208) Ananth Kalyanaraman et al., Special Report: The AgAID AI Institute for Transforming Workforce and Decision Support in Agriculture, Computers and Electronics in Agriculture 197, Article 106944, Elsevier, 2022, 8 pages.

209) Margaret Burnett, Doing Inclusive Design: From GenderMag in the Trenches to InclusiveMag in the Research Lab, International Conference on Advanced Visual Interfaces (AVI'20). (Invited paper: Keynote address). pp 1-6.

210) Margaret Burnett, Explaining AI: Fairly? Well? (Abstract, Keynote address) ACM Int. Conf. Intelligent User Interfaces, March 2020.

211) Margaret Burnett, Explaining AI Fairly (Well) (abstract for keynote address), ExSS Workshop on Explainable Smart Systems, IUI Workshops'19, March 20, 2019.

212) Margaret M. Burnett and Brad A. Myers, "Future of End-User Software Engineering: Beyond the Silos, *International Conference on Software Engineering,* Hyderabad, India, June 2014.

213) Margaret Burnett, "To Adopt or Not to Adopt? What Theory Predicts", ISAT/DARPA Workshop on Fostering Adoption of Programming Languages, February 2013.

214) Christopher Scaffidi and Margaret Burnett, "End-User Development", *Interaction Design Encyclopedia*, online at Interaction-Design.org, 2011.

215) Margaret Burnett, "The Future of Software Engineering: Enhancing Human Expertise in Tackling Software Quality" (position paper), *ACM FSE/SDP Workshop on the Future of Software Engineering Research*, November 2010, pp. 75-76.

216) Margaret Burnett, "Gender HCI: What About the Software?" (Abstract of keynote talk), *28th ACM International Conference on Design of Communication*, Sao Carlos, Brazil, Sept. 27-29, 2010, pp. 251-251.

217) Margaret Burnett, "What Is End-User Software Engineering and Why Does It Matter?" (Invited paper), *Second International Symposium on End-User Development*, Siegen, Germany, March 2009.

218)"Invited Research Overview: End-User Programming" (Invited paper), Brad Myers, Andrew Ko, and Margaret Burnett, *ACM Conference on Human Factors in Computing Systems (CHI'06)*, April 2006.

219)"A Spreadsheet-Based View of the End-User Software Engineering Concept" (position statement), Margaret Burnett, Curtis Cook, and Gregg Rothermel, *Workshop on Foundations of Spreadsheets*, September 2004.

220)"Bringing HCI Research to Bear Upon End-User Requirement Specification" (Invited paper), Margaret Burnett, *International Workshop on Lyee Methodology*, Paris, France, October 2002.

221)"The Future of Visual Languages" (Panel position paper), S. K. Chang, Margaret Burnett, Stefano Levialdi, Kim Marriott, Joseph Pfeiffer, and Steven Tanimoto, *1999 IEEE Symposium on Visual Languages*, Tokyo, Japan, September 1999.

222)"Intelligent Support for Testing in Languages for Blended- and End-User Programmers" (Position paper), Margaret Burnett, Gregg Rothermel, and Curtis Cook, *ACM CHI'99 Workshop on End-User Programmers and Blended-User Programmers*, May 1999.

223)"Challenges and Opportunities Visual Programming Languages Bring to Programming Language Research" (Invited talk abstract), Margaret Burnett, *7th International Conference on Compiler Construction (CC'98)*, Lisbon, Portugal, published as LNCS #1383, Springer Verlag, 188-188, March/April, 1998.

***Books***

224)*Visual Object-Oriented Programming: Concepts and Environments*, Margaret Burnett, Adele Goldberg, and Ted Lewis (editors), Manning Publications and Prentice-Hall, 1995. (Co-published by IEEE CS Press. IEEE listed it as one of their top 10 books).

225)*Fundamentals of Abstraction and Advanced Programming in Pascal -- A Software Engineering Approach,* William Bulgren and Margaret Burnett, McGraw-Hill, 1992.

***Non-Refereed Publications***

226) Using the GenderMag Method to Find Usability Issues through a Gender Lens, Margaret Burnett, Simone Stumpf, Laura Beckwith, and Anicia Peters. http://gendermag.org, most recent update: July 2019.

227) The whats and hows of programmers' foraging diets, Piorkowski, D., Fleming, S., Kwan, I., Burnett, M., Scaffidi, C., Bellamy, R., Jordhal J. Oregon State Univ. Tech Report. http://hdl.handle.net/1957/36082. Jan. 2013.

228)"REU in a Box: Expanding the Pool of Computing Researchers", Patricia Morreale, Margaret Burnett, Ann Gates, Jose Cossa, and Nancy Amato, www.ncwit.org/reubox, National Center for Women in Technology, July 2011. (In 2013, this was the **third-most-downloaded** Academic Alliance resource.)

229)"Gender HCI", Valentina Grigoreanu, Laura Beckwith, Margaret Burnett, Susan Wiedenbeck, Vaishnavi Narayana, Wikipedia, http://en.wikipedia.org/wiki/Gender_HCI, March 3, 2007.

230)"Designing for Gender Differences in Problem-Solving Software", Margaret Burnett, Laura Beckwith, Valentina Grigoreanu, *Proceedings of ITWF & ITR/EWF Principal Investigator Conference*, pp. 187-189, 2006.

231)"A Scalable Method for Deductive Generalization in the Spreadsheet Paradigm," Margaret Burnett, Sherry Yang, and Jay Summet, *interactions*, ACM, Sept./Oct. 2002.

232)"Applying a 'What You See Is What You Test' (WYSIWYT) Technology to Commercial Spreadsheet Packages: Several Scenarios", Margaret Burnett and Gregg Rothermel, web-based document, December 1999.

233)"Introducing HCI Into Programming Language and Software Engineering Research," Margaret Burnett, *SERC (Software Engineering Research Center) Newsletter*, 5-6, March 1997.

234)"Graphical Definitions," Herkimer Gottfried, Margaret Burnett, and Jonathan Cadiz, 8-minute video, April 1996.

235)"Algorithm Animation in Forms/3," Paul Carlson, Margaret Burnett, and Jonathan Cadiz, 5-minute video, August 1995.

236)"Visual Programming," Margaret Burnett and David McIntyre, Guest Editors' Introduction to a Special Issue of *Computer*, March 1995.

237)"Is It Easier to Write Matrix Manipulation Programs Visually or Textually? An Empirical Study" (Summary), Rajeev Pandey and Margaret Burnett, *Psychology of Programming Interest Group Newsletter* No. 15, October 1994.
238)"Visual Programming Languages Bibliography," Benjamin Summers and Margaret Burnett, WWW page, August 1994. This is a continually-updated document that gets 1000-2500 hits per month. We receive occasional thank-you notes from researchers who rely upon it as a resource.
239)"A Taste of Forms/3," Margaret Burnett, Sherry Yang, and John Atwood, 13-minute video, July 1994.
240)"Declarative Visual Languages," Margaret Burnett and Allen Ambler, Guest Editors' Introduction to a Special Issue of the *Journal of Visual Languages and Computing* 5(1), 1-3, March 1994.
241)"Workshop Report—Visual Object-Oriented Programming," Margaret Burnett, OOPSLA'93 Addendum to the Proceedings of the ACM OOPSLA'93 Conference, January 1994.
242)*Abstraction in the Demand-Driven, Temporal-Assignment, Visual Language Model*, Margaret Burnett, Ph.D. Thesis, University of Kansas, August 21, 1991.
243)10 articles over semi-technical and business-computer topics such as computer selection, computer security, file management algorithms, and programming techniques, Margaret Burnett, published in popular computer publications between 1983 and 1986.

### *Press Coverage*

1) UNESCO (United Nations Educational, Scientific, and Cultural Organization), "Artificial Intelligence and Gender Equality: Key findings of UNESCO's Global Dialogue", August 2020. 50-page booklet including a description of what GenderMag does.
2) OPB (Oregon Public Broadcasting)'s "Think Out Loud" interview about GenderMag. July 1, 2019. https://www.opb.org/radio/programs/thinkoutloud/segment/legislative-wrap-up-software-gender-bias-rebroadcast-priced-out/
3) Interview with Margaret Burnett on NBC's "Good Morning Namibia". March 2019. https://www.youtube.com/watch?v=kCD99PEhf5s
4) Margaret Burnett Makes Computers More Inclusive, Rewire (Minnesota Public Radio), 2017. http://www.rewire.org/
5) Engineering out Loud: Season Two, Episode 1: Polyphony of Inclusivity. OSU College of Engineering. Also published by NSF Science360 Radio. 2017.
6) People of ACM: Margaret Burnett, Nov. 2016, ACM. https://www.acm.org/articles/people-of-acm/2016/margaret-burnett
7) Software er generelt indrettet til maend, 2016. Prosabladet (magazine for Danish IT professionals), pp. 28-29. https://www.prosa.dk/fileadmin/user_upload/PROSAbladet/2016/Prosabladet_20160205.pdf
8) Elusive Equity, Terra Magazine, Winter 2015. (About women in STEM fields.)
9) Computer science student beats odds..., OSU Press Release June 9, 2014. (About REU student Charles Hill, with a bit of credit to me.). (http://oregonstate.edu/ua/ncs/archives/2014/jun/computer-science-student-beats-odds-hopes-expand-computer-usability)
10) Anthony Salcito's 365-day look at global heroes in education, *Daily Edventures*, Jan. 6, 2014. (http://dailyedventures.com/index.php/2014/01/06/margaretburnett/)

11) A Warrior for the Blind | Guest Blog, in *Scientific American Blog Network* http://blogs.scientificamerican.com/guest-blog/2013/09/17/a-warrior-for-the-blind/, September 20, 2013. (About former student Kyle Rector, with a bit of credit to me.)
12) The ASE Program Works Because of Three Key Ingredients, *Saturday Academy Blog*, December 12, 2012 (http://www.saturdayacademy.org/?p=1709)
13) End-User Assessments are Valuable – to a Certain Point, *IEEE Computing Now*, Aug. 17, 2011. (http://www.computer.org/portal/web/news/home/-/blogs/4525828)
14) End-User Debugging of Machine-Learned Programs, *Science Daily*, *ACM TechNews,* interview in *IEEE Intelligent Systems Magazine,* other places, August-November 2009.
15) Gender and Software: *Microsoft Channel 9* interview, June 2009.
16) High-Tech Gender Gap, in *ACM TechNews, USA Today, CNN Money, Forbes, Time, MSNBC, Washington Post, Chicago Tribune, Baltimore Sun, Denver Post, Boston Globe, Federal News Radio,* various CBS stations*, Oregonian*, other places, 2007 and 2008.
17) NCWIT Promising Practices: Why Do Research With Undergraduates? National Center for Women In Technology. http://www.ncwit.org/practices.post.html. February 2007.
18) Making It On Their Own, *CIO Magazine*, May 15, 2005.
19) Exterminating Bugs, radio show short on "Imagine That" Radio, April 2005.
20) The Dangers of End User Programming, *IEEE Software*, June 2004.
21) Debugging for the Masses, *PC Magazine,* May 14, 2004.
22) Helping Exterminate Bugs in Spreadsheets, Web Applications, in *ACM TechNews*, *National Science Foundation Press Release*, *Innovations Report*, *Eurekalert*, *NewsWise*, other places, May 6 and 7, 2004
23) *National Journal* Technology Daily column, May 6, 2004.
24) Working Smarter With Computers, KVAL-TV13, December 16, 2003.

## *Invited Talks*

***Invited Talks at Conferences and Workshops***

*Keynote*, JP Morgan/Chase Developers Conference, Plano, Texas, October 2022.
*Keynote*, International EUGAIN Summer Training School, Lugano, Switzerland, June 2022.
*Keynote,* CHI and UX Indonesia (Human-Computer Interaction and User Experience), CHIuXID (virtual), Nov. 2021.
*Invited Speaker,* CITRIS Research Exchange Seminar Series, Webinar, Oct. 2021.
*Keynote,* Methods, Theories, and Taking Action through Gender and Feminisms in HCI Workshop (virtual), Sept. 2021.
*Keynote,* ACM SIGUCCS Conference of the ACM Special Interest Group on University and College Computing Services (virtual), March 2021.
*Invited Speaker,* AAAI'21 Workshop on Explainable Agency in Artificial Intelligence (virtual), February 2021.
*Keynote,* Iberoamerican Conference on Software Engineering (CIbSE 2020), Brazil (virtual), November 2020.
*Invited Speaker* (with Anita Sarma), Silicon Valley Engineering Leadership Community, California (virtual), October 2020.
*Keynote,* ACM International Conference on Advanced Visual Interfaces, Italy (virtual), September 2020.
*(Keynote,* ACM Conference on Intelligent User Interfaces (IUI), March 2020—entire conference canceled due to COVID virus.)

*Keynote,* ACM-W Tri-State Women in Computing Conference, Kentucky, Feb. 2020.
*Keynote,* RIEC International Symposium on Human-Computer Interaction, Tohura University, Japan, January 2020.
*Invited Speaker,* ACM Education Board Annual Meeting, January 2020.
*Invited Speaker,* ACT-W/ChickTech Achieving Equity Workshop, Portland, OR, June 2019.
*Keynote (with Anita Sarma),* Google Software Developer Diversity and Inclusion (SDDI) Workshop, June 2019.
*Invited Speaker* (with Anita Sarma), ACM Webinar, April 2019.
*Invited Speaker,* Equality Meet Up, Salesforce Higher Education Summit, April 2019.
*Keynote*, Namibia Women in Tech Conference (IWD'19), Windhoek, Namibia, March 2019.
*Keynote*, IUI 2019 Workshop on Explainable Smart Systems (ExSS), March 2019.
*Keynote*, IEEE International Conference on Software Maintenance and Evolution, Sept. 2018.
*Invited Speaker,* ICSE'18 New Faculty Symposium, May 2018.
*Keynote,* ACM-W New Jersey Celebration of Women in Computing, April 2018.
*Keynote+Panelist,* Gender-Inclusive Design Discussion Event, Vancouver Hardware Meetups Speaker Series, March 2018.
*Invited Speaker,* Portland Women in Technology (PDXWIT), Feb. 2018.
*Invited Speaker,* Women in Application Security (OWASP), Feb. 2018.
*Invited Speaker*, Facebook+Univ. College London Workshop, Dec. 2017.
*Keynote*, Northwestern Regional Conference of the Consortium for Computing Sciences in Colleges (CCSC-NW), Oct. 2017.
*Keynote*, ACM-W Ohio Celebration of Women in Computing, February 2017.
*Invited Speaker,* Gendered Creative Teams Workshop, Budapest, Hungary, May 2017.
*Invited Speaker,* AAUW STEM Awards Ceremony for High-School Girls, Tillamook, OR, January 2017.
*Keynote*, ACM Foundations of Software Engineering, November 2016.
*Keynote*, ACM-W India Celebration of Women in Computing, October 2016.
*Invited Speaker,* ICSE'16 New Faculty Symposium, May 2016.
*Invited Speaker,* ACM SIGSOFT Webinar series, 2015.
*Invited Speaker*, CRA-W Career Mentoring Workshop at ACM FCRC, 2015.
*Invited Speaker*, Grace Hopper Celebration of Women in Computing, Representing "Best of ACM SIGCHI", 2014.
*Keynote*, 5th Intl. Conf. Human-Centered Software Engineering, Paderborn, Germany, September 2014.
*Invited Speaker*, ACM/IEEE International Conference on Software Engineering (Future of Software Engineering Event), June 2014.
*Keynote,* ACM-W Pune's Regional Celebration of Women in Computing, April 2013.
*Invited Speaker,* ISAT/DARPA Workshop on Fostering Adoption of Programming Languages, Philadelphia, Pennsylvania, February 2013.
*Keynote,* 19th IEEE International Conference on Program Comprehension, Kingston, Ontario, Canada, June 2011.
*Keynote,* Psychology of Programming Interest Group, Madrid, Spain, September 2010.
*Keynote,* 28th ACM International Conference on Design of Communication, São Carlos, Brazil, September 2010.
*Keynote,* Second International Symposium on End-User Development, Siegen, Germany, March 2009.
*Keynote,* IBM Research Symposium on Human-Computer Interaction, Hawthorne, NY, November 2008.

*Invited Speaker,* ICSE'08 New Faculty Symposium, Leipzig, Germany, May 2008.
*Invited Speaker,* ICSE'08 Workshop on End-User Software Engineering, Leipzig, Germany, May 2008.
*Invited Speaker*, IBM Conference on Situated Software, White Plains, NY, March 2006.
*Invited Speaker*, Workshop on End-User Software Engineering, St. Louis, Missouri, May 2005.
*Invited Speaker,* Workshop on Foundations of Spreadsheets, Rome, Italy, September 2004.
*Keynote*, International Workshop on Lyee Methodology, Paris, France, October 2002.
*Keynote*, European Joint Conferences on Theory and Practice of Software: International Conference on Compiler Construction, Lisbon, Portugal, April 1998.
*Keynote*, Prograph Developers Conference, Cupertino, California, October 1994.
*Keynote*, Visual Software and Programming Languages Workshop, Scottsdale, AZ, Oct. 1993.
*Invited Presentation,* OOPSLA'92 Pre-Conference Workshop on Object-Oriented Languages: The Next Generation, Vancouver, Canada, October 1992.

*Panelist*, IEEE VL/HCC Graduate Consortium, Rome, Italy, September 2022.
*Panelist*, IFIP Int. Conf. on HCI (INTERACT) (virtual), Sept. 2021.
*Panelist*, DoD AI Symposium and Tech Exchange (virtual), June 2021.
*Panelist and Panel Moderator*, NIST Measurement and Evaluation of AI Workshop (virtual), June 2021.
*Panelist,* DARPA XAI (Explainable AI) PI Meeting, Washington DC (virtual), March 2020.
*Panelist,* IJCAI Panel on Women in Computing, August 2019.
*Panelist*, Inclusion and Equality in Higher Education, Salesforce Higher Education Summit, April 2019.
*Panelist*, "How to be an Award Winning Mentor," National Center for Women & IT Summit, Hilton Head, SC, May 2015.
*Panelist*, CHI'13 panel on Women in HCI, Paris, France, May 2013.
*Panelist*, Educause panel on Women in Computing, Denver, Colorado, November 2012.
*Panelist*, "Software Engineering Research Grants and NSF 'Broader Impacts': NSF Changes and SE Researcher Strategies," ACM/IEEE International Conference on Software Engineering, Honolulu, Hawaii, May 2011.
*Panelist/SIG Speaker*, "Applying the Broader Impacts Criteria to HCI Research," ACM Conference on Human/Computer Interaction, Vancouver, Canada, May 2011.
*Speaker*, Introducing "REU in a Box", National Center for Women & IT Summit, New York, May 2011.
*Panelist*, "End Users: Expressing Intentions Directly to the Computer," International Workshop on Lyee Methodology, Paris, France, October 2002.
*Panelist,* "The Future of Visual Languages," 1999 IEEE Symposium on Visual Languages, Tokyo, Japan, September 1999.
*Panelist,* "Visual Languages and Software Engineering," 1999 IEEE Symposium on Visual Languages, Tokyo, Japan, September 1999.
*Panelist,* "Paradigms of Software Science," European Joint Conferences on Theory and Practice of Software, Lisbon, Portugal, April 1998.

***Invited Talks at Universities and Research Labs***

IT University Copenhagen, Denmark, May 2022.
Aarhus University, Denmark, May 2022.
OSU College of Engineering Faculty Lecture Series (virtual), Jan. 2022.

Pacific Northwest National Laboratory (virtual), April 2021.
Google Tech Talk (virtual), March 2021.
Tennessee Technological University Colloquium (virtual), October 2020.
Indiana University, February 2020.
Carnegie Mellon University, January 2020.
University of Oregon (with Anita Sarma), October 2019.
Salerno (Italy) Summer School on Software Engineering, June 2019.
Iowa State University, April 2019.
Namibia University of Science and Technology, March 2019.
University of Namibia, March 2019.
University of Houston, Nov. 2018.
WikiMedia Foundation, Oct. 2018.
Google Tech Talk, July 2018.
Indiana University, July 2018.
Oregon State University, June 2018.
Misty West, March 2018.
IBM T.J. Watson Research Center, Feb. 2018.
University of Washington, January 2018.
Microsoft, January 2018.
Simon Fraser University, Nov. 2017.
Univ. California San Diego, Oct. 2017.
Intel, Aug. 2017.
University of Michigan, June 2017.
Pacific Northwest National Labs (PNNL), May 2017.
University of Kansas, April 2017.
Bloomberg, March 2017.
University of Victoria, Canada, January 2017.
University of Maryland Baltimore County, October 2016.
Microsoft Research Cambridge, September 2016.
Microsoft, April 2016.
Microsoft Research, March 2016.
University of North Carolina Charlotte, January 2016.
Microsoft, January 2016.
Heilbronn University, Germany, December 2015.
University of Paderborn, Germany, December 2015.
IT University Copenhagen, Denmark, November 2015.
City University London, UK, November 2015.
McGill University, Canada, October 2015.
University of Waterloo, Canada, October 2015.
IBM TJ Watson Research Center, August 2015.
Microsoft Faculty Summit SE-Mix speaker, July 2015.
Google Tech Talk, May 2015.
Univ. Paderborn, Germany, January 2014.
Tata Research Center (TRDDC), Pune, India, April 2013.
University of Goa, India, April 2013.
Rayeshwar Institute of Engineering and Information Technology (RIT), Goa, India, April 2013.
Birla Institute of Technology and Science (BITS), Goa, India, April 2013.
University of Mumbai, Mumbai (Bombay), India, April 2013.

Georgia Institute of Technology, October 2012.
Starkey Hearing Technologies, Minneapolis, MN, July 2012.
Carnegie Mellon University, Pittsburgh, PA, April 23, 2012.
Dartmouth College, Hanover, NH, April 12, 2012.
University of California Irvine, Irvine, CA, Dec. 2, 2011.
Washington University of St. Louis, St. Louis, MO, Nov. 9, 2011.
Microsoft and Microsoft Research, Redmond, Washington, multiple talks in June and July 2009.
Oregon Institute of Technology, Klamath Falls, Oregon, February 17, 2009.
Microsoft Research, Redmond, Washington, Feb. 6, 2009.
Air Force Research Lab, Mesa, Arizona, Jan. 14, 2009.
Portland State University, Portland, Oregon, April 28, 2008.
University of Colorado (Center for Cognitive Studies) Boulder, Colorado, Sept. 7, 2007.
University of Colorado (CS Dept.), Boulder, Colorado, Sept. 6, 2007.
IBM T.J. Watson Research Center, Hawthorne, NY, August 1, 2007.
Google Tech Talk, Mountain View, California, April 27, 2007.
Microsoft Research, Cambridge, United Kingdom, August 30, 2006.
IBM T.J. Watson Research Center, Hawthorne, NY, August 1, 2006.
Open University, United Kingdom, June 28, 2005.
University of Nebraska/Lincoln, March 24, 2005.
Stanford University, Palo Alto, California, November 3, 2004.
Microsoft Research, Redmond, Washington, March 23, 2004.
Carnegie Mellon University, Pittsburgh, Pennsylvania, September 10, 2003.
IBM TJ Watson Research Center, New York, September 8, 2003.
SAP, Walldorf, Germany, July 29, 2003.
University of Auckland, New Zealand, April 12, 2002.
Microsoft (TechFest event), with S. Peyton Jones, Seattle, Feb. 21, 2002.
Institute of Computer Based Software Methodology and Technology, Tokyo, Feb. 14, 2002.
Darwin College Science Lecture Series, Cambridge, United Kingdom, November 15, 2001.
University of Cambridge, United Kingdom, November 7, 2001.
University of Manchester Institute of Systems and Technology, Manchester, UK, Nov. 5, 2001.
University of Cambridge, United Kingdom, October 24, 2001.
Microsoft Research, Cambridge, United Kingdom, October 19, 2001.
University of Kent, Canterbury, United Kingdom, October 16, 2001.
Instituto Superior Tecnico, Lisbon, Portugal, September 25, 2001.
McMaster University, Hamilton, Ontario, Canada, July 6, 2001.
University of Pittsburgh, May 19, 1999.
Waikato University, Hamilton, New Zealand, April 30, 1999.
University of Auckland, New Zealand, April 28, 1999.
Monash University, Melbourne, Australia, April 26, 1999.
University of Newcastle, Australia, April 21, 1999.
Macquarie University, Sydney, Australia, April 20, 1999.
Macquarie University, Sydney, Australia, April 9, 1999.
University of Washington, Seattle, Washington, January 1999.
Microsoft, Seattle, Washington, January 1999.
OCATE, Portland, Oregon, May 2, 1997.
FX (Fuji-Xerox) Palo Alto Research Labs, Palo Alto, California, August 1996.
Hewlett-Packard Laboratories, Palo Alto, California, February 1996.
IBM Santa Teresa Lab, San Jose, California, February 1996.

University of Erlangen-Nurnberg, Erlangen, Germany, September 1995.
University of Paderborn, Germany, September 1995.
Hewlett-Packard Laboratories, Palo Alto, California, August 1995.
University of Oregon, Eugene, Oregon, May 1995.
Hewlett-Packard Laboratories, Palo Alto, California, August 1994.
Evergreen College, Olympia, Washington, April 1994.
University of Washington, Seattle, WA, May 1993.
Consorzio Compano di Ricerca per l'Informatica e l'Automazione Industriale, with A. Ambler, Naples, Italy, 1991.

## *Service*

***Professional Service and Leadership Activities***

CRA-E Undergraduate Research Faculty Mentoring Award selection committee, 2020-2021.
Member, ACM CHI Research and Practice Awards Committee, 2017-2019.
Founding Project Director: EUSES Consortium (2003-2009). A group of researchers across six (initially) universities investigating ways to increase the reliability of software created or shaped by end users. (Now 11 institutions.)
Founding Chair: Graduate/Doctoral Student Consortium, IEEE Symposium on Visual Languages and Human-Centric Computing (Founding Chair 2003, Co-Chair 2014. Panelist/committee member 2004, 2005, 2012).
Chair, Small Business Council, Chamber of Commerce, Lawrence, KS, 1986/1987.
Founding President, Lawrence Women's Network, Lawrence, KS, 1983. The Lawrence Women's Network is an organization for the professional advancement of women in professional and managerial positions, and continues to thrive now, more than 30 years later.

National Center for Women and Technology (NCWIT): 2006-present.
Academic Alliance Emeritus Chairs Council (AECC): NCWIT, 2020-present.
Advisory Board: NCWIT Academic Alliance, 2014-2020.
Planning Committee: NCWIT Extension Services Recognition Awards program, 2014.
Co-Chair NCWIT Academic Alliance, May 2011-May 2014.
Co-chair: "REU-in-a-box" team for NCWIT, 2010-2011.
Contributed to the REU Case Study of "Best Practices" for NCWIT, 2007.
Chair, Seed Grant Review Committee, May-July 2007.

IEEE Computer Society Technical Activities Committee Member at Large, 2016.
Advisory Board, Univ Kansas EECS, 2017.
Advisory Board, PACT, SRI International, 2015-present.
Advisory Board, National Center for Women & IT Academic Alliance, May 2014-present.
Advisory Committee: Workshop on Human Aspects of Software Engineering, a Pre-ICSE Workshop for ICSE'14. 2013.
Advisory Board: Northwest Computer Science Consortium to Enhance the Study of Climate Change, 2011-present.
DARPA Information Science and Technology (ISAT) study group, an advisory group of "about 30 thought leaders in academia and industry who help DARPA in its mission of detecting and creating strategic surprise broadly related to computing in the context of national security." (2020 for a 3-year term.)

Design Advisory Council: iGIANT (a non-profit working on gender biases across a number of industries, especially medical and tech), 2018-present.
Executive Committee: EUSES Consortium: 2003-2009, 2014-2016.
Steering Committee: Conference on Fairness, Accountability, and Transparency (FAT*), 2017-2020.
Steering Committee: International Symposium on End-User Development, 2013-2017.
Steering Committee: ACM Symposium on Software Visualization: Steering Committee 2005-2010.
Steering Committee: IEEE Symposium on Visual Languages and Human-Centric Computing: 1998-2002, 2002-2006, 2006-2010. (Chair Sept. 2000-Sept. 2001; Vice Chair Sept. 2002-Sept. 2003.)
Business Advisory Council, Independence, Inc., Lawrence, KS. Independence Inc. is a non-profit self-help agency for the handicapped. 1985-1986.

Journal Editorial Positions:

Editorial board: IEEE Transactions on Software Engineering, 2013-2017.
Editorial advisory board: Interacting with Computers, Elsevier, 2012-present.
Editorial board: Interaction Design Foundation, 2013-present.
Editorial board: ACM Transactions on Interactive Intelligent Systems, 2012-2016.
Editorial advisory board: Human Centric Visualizations: Theories, Methodologies and Case Studies (Tony Huang, ed.), Springer, 2014.
Editorial board: *Handbook on Software Engineering & Knowledge Engineering*, (S.-K. Chang, ed.) 2001.
Editorial board: *Journal of Visual Languages and Computing*. 1998-2002.

Guest Editor:

Special Issue on Highlights from IUI'18, ACM Transactions on Interactive Intelligent Systems, with Aaron Quigley and Mark Billinghurst, 2018-2019.
Special Issue on End-User Software Engineering, *IEEE Software*, IEEE, with Andrew Ko, Robin Abraham, and Brad Myers, 2009.
Special Issue, *Journal of Visual Languages and Computing*, Academic Press, with Wayne Citrin, August 1997.
Special Issue on Visual Programming Languages and Environments, *Computer*, IEEE, with David McIntyre, March 1995.
Special Issue on Declarative Visual Programming Languages, *Journal of Visual Languages and Computing*, Academic Press, with Allen Ambler, March 1994.

General Co-Chair: International Symposium on End-User Development, 2013.
General Co-Chair: 1997 IEEE Symposium on Visual Languages.
Program (Co-)Chair:

2018 ACM Symposium on Intelligent User Interfaces.
2014 Grace Hopper: Co-Chair Human-Computer Interaction Program.
2013 IEEE Symposium on Visual Languages and Human Centric Computing.
2008 ACM Conference on Human Factors in Computing Systems.
2006 ACM Symposium on Software Visualization.
2003 IEEE Symposium on Visual Languages and Human Centric Computing.
1996 IEEE Symposium on Visual Languages.

Program Committees:

ACM Conference on Designing Interactive Systems (DIS): 2014
ACM Conference on Human Factors in Computing Systems (CHI): Papers Program Committee Reviewer: 1998, 1999, 2002, 2005, 2006, 2008 (Papers Co-Chair), 2013. ACM Conference on Programming Language Design and Implementation (PLDI), 1997.
ACM International Conference on Functional Programming (ICFP): 2002.
ACM Symposium on Intelligent User Interfaces, 2020 (Senior Program Committee), 2021 (Senior Program Committee), 2022 (Senior Program Committee), 2023 (Senior Program Committee).
ACM Symposium on Software Visualization: 2003, 2005, 2006, 2008, 2010.
ACM International Symposium on the Foundations of Software Engineering (FSE), 2012, 2016.
ACM/IEEE International Conference on Automated Software Engineering (ASE), 2011.
ACM/IEEE International Conference on Software Engineering (ICSE), 2007, 2013, 2014 (Program Board), 2018 (Program Board), 2019 (Program Board), 2022 (Journal-First PC)
ACM/IEEE ICSE "NIER" (New Ideas and Emergent Results Track): 2010, 2015.
IFIP Symposium on Human-Centered Software Engineering, 2014.
International Conference on Gender and IT: 2014.
Advanced Visual Interfaces (AVI): 2004, 2006, 2008, 2010, 2012.
IEEE Symposium on Visual Languages and Human Centric Computing (VL/HCC): 1992-2007, 2003 (Program Co-Chair), 2009-2015, 2020.
International Symposium on End-User Development (EUD): 2009, 2011, 2015.
Psychology of Programming Interest Group (PPIG): 2003, 2007, 2010.

Workshops Committee, ICSE10 (to select which ICSE'10 Workshop Proposals to accept).
and served on PCs of various individual workshops 2004-present.

Doctorial Consortium Committee Co-Chair, 2023 ACM Conference on Human Factors in Computing Systems, 2022-2023.
Hybrid Conference Advisory Committee, 2021 ACM Conference on Human Factors in Computing Systems (CHI 21), August 2020-December 2020.
Keynote Committee Co-Chair, 2021 ACM Conference on Human Factors in Computing Systems, 2019-2021.
Keynote Committee Co-Chair, 2024 ACM Conference on Human Factors in Computing Systems, 2023-2024.
New Faculty Symposium Co-Chair, 2016 ACM/IEEE International Conference on Software Engineering.
Workshops Co-Chair, 2013 ACM/IEEE International Conference on Software Engineering, with Holger Giese.
Workshops Co-Chair, 2007 ACM Conference on Human Factors in Computing Systems, with JJ Cadiz.
Publicity Chair, 2003 International Conference on Software Engineering.
Publicity Chair, 2000 IEEE Symposium on Visual Languages.

Tutorials Chair, 1997 ACM Conference on Multimedia.
Tutorials Chair, 1992 IEEE Workshop on Visual Languages, Seattle.

SIG Co-Organizer: Special Interest Group session on Programming Language Usability (at ACM CHI 2016).
Workshop Co-Organizer, CHI'15 Workshop, End-User Development in the Internet of Things, with Daniel Tetteroo, Volkmar Pipek, Stefano Valtolina, Fabio Paterno, and Panos Markopoulis.
Workshop Co-Organizer, CHI'14 Workshop, Perspectives on Gender and Product Design, with Daniela Busse, Elizabeth Churchill, Susan Dray, Karen Holzblatt, et al.
Workshop Co-Organizer, CHI'12 Workshop on End-user Interactions with Intelligent and Autonomous Systems, with Simone Stump, Weng-Keen Wong, and Volkmar Pipek.
Panel Co-organizer: Panel/SIG at ACM CHI'11 on how HCI researchers can meet the NSF Broader Impacts criteria, 2011.
Panel Organizer: Panel at ACM/IEEE ICSE'11 on how Software Engineering researchers can meet the NSF Broader Impacts criteria, 2011.
SIG Co-Organizer: Special Interest Group session on End-User Software Engineering (at ACM CHI 2004-05, 2007-10).
Workshop Co-Organizer, ICSE'08 Workshop on End-User Software Engineering, with Robin Abraham and Mary Shaw.
Dagstuhl Co-Organizer, End-User Software Engineering, February 2007, with Gregor Engels, Brad Myers, and Gregg Rothermel.
Workshop Co-Organizer, CHI'06 Workshop on End-User Software Engineering, with Brad Myers, Mary Beth Rosson, and Susan Wiedenbeck.
Workshop Co-Organizer, ICSE'05 Workshop on End-User Software Engineering, with Gregg Rothermel, Sebastian Elbaum, Brad Myers.
Workshop Co-Organizer, ACM OOPSLA'93 Workshop on Visual Object-Oriented Programming, with Adele Goldberg and Ted Lewis, October 1993.

Also a Reviewer for:

Journals:

*ACM Transactions on Computer-Human Interaction*
*ACM Transactions on Programming Languages and Systems*
*ACM Transactions on Software Engineering and Methodology*
*Australian Computer Journal*, Special Issue on Software Visualization
Automated Software Engineering
*Computer* (IEEE)
*IEEE Computational Science & Engineering*
*IEEE Transactions on Computers*
*IEEE Transactions on Software Engineering*
*International Journal of Human Computer Studies*
*International Journal of Software Engineering and Knowledge Engineering*
*International Journal on Very Large Data Bases*
*Journal of Visual Languages and Computing* (Academic Press)

*Journal of Functional Programming* (Cambridge University Press)
*Object-Oriented Systems* (Chapman & Hall)
*Software: Practice and Experience* (John Wiley and Sons)
*The Computer Journal* (Oxford University Press)
Funding Agencies:
National Science Foundation
Engineering and Physical Sciences Research Council, United Kingdom
Australian Research Council
Natural Sciences and Engineering Research Council of Canada
Italian Ministry for Universities and Research

NSF Review Panel Member: 1993, 1994, 1996 (twice), 1997, 1998, 1999, 2000, 2001, 2004 (twice), 2005 (twice), 2006, 2008, 2009, 2010, 2011 (twice), 2013, 2014, 2015, 2020, 2021.

External PhD Committees:
Advait Sarkar, University of Cambridge, UK, 2016-2017.
Filip Kis, KTH Royal Institute of Technology, Sweden, 2016.
Kerry Chang, Carnegie Mellon University, 2014-2016.
Lena Palmquist (MS External Committee Member), Umea University, Umea, Sweden, 2014.
Sandeep Kuttal, Univ. Nebraska-Lincoln, 2014.
Felienne Hermans, Delft University of Technology, Delft, The Netherlands, 2012-2013.
Brian Lim, Carnegie Mellon University, Pittsburgh, PA, 2011-2012.
Robert Sheehan, University of Auckland, Auckland, New Zealand, 2004.
Richard Lin, Monash University, Melbourne, Australia, 2000.

Mentor:
Computing Research Association, CRA-W Distributed Mentor Program, June-Sept. 2002, June-Sept. 2004.
Mentor to individual undergraduate REU students continuously from 1992-present.
Mentor to individual Saturday Academy ASE high school research students 2004-2006, 2008-2015, 2017-present.
Mentor to junior faculty members between 1996-present: Gregg Rothermel, Jon Herlocker, Martin Erwig, Carlos Jensen, Christopher Scaffidi, Alex Groce, Shaowen Bardzell (Indiana Univ.), Danny Dig, James MacBeth (MIT/Clemson postdoc), Anita Sarma, Minsuk Kahng.

***University Service***

2022/2023:
EECS Promotion/Tenure Dossier Committee

2021/2022:
OSU-IT organization: integrating GenderMag throughout OSU
EECS Promotion/Tenure Dossier Committee

2020/2021:
OSU-IT organization: integrating GenderMag throughout OSU
COE Promotion and Tenure Committee

2019/2020:
OSU-IT organization: integrating GenderMag throughout OSU
OSU President and Provost's Leadership Council
EECS Promotion/Tenure Dossier Committee

2018/2019:

OSU-IT organization: integrating GenderMag throughout OSU
OSU President and Provost's Leadership Council
OSU Bias Incident Response PPLC Subcommittee
EECS Grad admissions
EECS NCWIT liaison

2017/2018:

COE Hiring committee for EECS Head Search
EECS Undergrad. curriculum committee (co-chair)
EECS NCWIT liaison.
EECS Grad admissions.

2016/2017:

OSU Distinguished Professor Screening committee.
EECS Diversity committee (chair).
EECS Faculty executive advisory committee.
EECS Group lead: Software Engineering and HCI (fall term).
EECS NCWIT liaison.
EECS Promotion and tenure dossier committee.
EECS Grad admissions.

2015/2016:

On sabbatical.

2014/2015:

OSU Graduate Faculty Advisory Committee.
College of Engineering Research Council.
EECS promotion and tenure dossier committee.
EECS grad admissions committee.
EECS NCWIT liaison.

2013/2014:

College of Engineering Research Council.
EECS strategy committee.
EECS graduate committee.
EECS grad admissions committee.
EECS women in EECS committee.
EECS NCWIT liaison.

2012/2013 :

EECS Graduation representative.
EECS promotion and tenure dossier committee.
EECS grad admissions committee.
EECS NCWIT liaison.

2011/2012:

Chair (fall), Member (spring): EECS promotion and tenure dossier committee.
EECS grad admissions committee.

2010/2011:

EECS promotion and tenure dossier committee.
EECS hiring committee.
EECS awards committee.
EECS grad admissions committee.

2009/2010:

EECS promotion and tenure committee.
EECS awards committee.
EECS grad admissions committee.

2008/2009:

EECS promotion and tenure committee.
(Also on sabbatical all academic year.)

2007/2008:

EECS promotion and tenure committee.
Chair: Computer science hiring committee.
EECS grad admissions committee.

2006/2007:

University promotion and tenure committee.
EECS grad admissions committee.

2005/2006:

University promotion and tenure committee.
EECS promotion/tenure committee.
EECS grad admissions committee.

2004/2005:

University promotion and tenure committee.
EECS promotion/tenure committee.
EECS hiring committee.
EECS grad admissions committee.

2003/2004:

EECS promotion/tenure committee.
EECS hiring committee.
EECS grad admissions committee.

2002/2003:

Oregon Space Grant Advisory Board.
College: Updated and presented the CS Department introduction section of the video.
Chair, Departmental Hiring Committee (tenure track position).
Departmental Undergraduate Committee.
Departmental Focus Group Team Leader for anticipated merger, Graduate Admission Procedure
Departmental Promotion/Tenure Committee.
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

2001/2002: On sabbatical.

2000/2001:

Oregon Space Grant Advisory Board.
University Faculty Recognition and Awards Committee.
Departmental Hiring Committee.
Departmental Student Development Committee (Chair).
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

1999/2000:

Oregon Space Grant Advisory Board.
University Faculty Recognition and Awards Committee.
Departmental Scholarship Committee.

Departmental Rep: Beaver Open House
Departmental Hiring Committee.
Departmental Library Representative
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

1998/1999:

Oregon Space Grant Advisory Board.
University Faculty Recognition and Awards Committee.
College of Engineering Hiring Committee for Chemical Engineering Department Head and Kuse Chair.
Departmental Graduation Reception Committee (Chair)
Departmental Rep: Beaver Open House
Departmental Hiring Committee.
Departmental Promotion and Tenure and Faculty/Staff Awards Committee.
Departmental Library Representative
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

1997/1998:

Oregon Space Grant Advisory Board.
College of Engineering Graduation Representative: Computer Science.
Departmental Graduation Reception Committee (Chair)
Departmental MSE Hiring Committee.
Departmental Library Representative
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.
Graduate Committee

1996/1997:

Oregon Space Grant Advisory Board.
College of Engineering Committee to Select Computer Science Interim Head.
College of Engineering Committee on Pay Equity.
Departmental Library Representative
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

1995/1996:

Oregon Space Grant Advisory Board.
Departmental Executive Committee.
Graduate Student Recruitment (selected tasks)
Departmental Library Representative
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

1994/1995:

Martin-Rudd Joint Science/Computer Science Scholarship Committee.
Mentoring Committee (Chair)
Departmental Library Representative
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

1993/1994:

Departmental Library Representative
Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.

1992/1993:

Beaver Bits. Founder and Editor-in-Chief of Beaver Bits, the newsletter for the department.
Graduate Committee
Colloquium Committee (Chair)

1991/1992:

Department Advancement Committee (Chair)
Colloquium Committee (Chair)
Department Head Recruitment Committee

## *Teaching and Direction of Students*

***Direction of Student Research***

As Major Professor:

Jon Dodge, Ph.D. 2022. Refereed publications: 6 conference, 5 journal. **IUI Outstanding Paper Award 2019**, **OSU/College of Engineering Graduate Research Assistant Award 2021, ACM UMAP Best Reviewer Award 2021**.

Abrar Fallatah, Ph.D. in progress, 2 conference .

Andrew Anderson, Ph.D. in progress (M.S. 2019). Refereed publications: 4 conference, 5 journal.

Montaser Hamid, Ph.D. in progress (co-mentored with Anita Sarma)

Puja Agarwal, M.S. in progress.

Rosalinda Garcia, M.S. in progress. 2 conference.

Chimdi Chikezie, M.S. in progress.

Rupika Dikkala, M.S. 2022 July. 1 conference, 2 journal.

Brijesh Bhuva, M.S. 2020: Co-lead 1 OSS software product, 1 poster paper.

Christopher Mendez, M.S. 2020. Refereed publications: 4 conference 1 journal. **CHI Best Paper Hon. Mention 2017, NSF Graduate Fellow Award 2018**.

Sruti Srinivasa Ragavan, Ph.D. 2019. 4 papers: **ICSME Best Paper Award 2015, Best Paper Award CHI 2016**.

Claudia Hilderbrand, M.S. 2019. Refereed publications: 6 conference

Charles Hill, M.S. 2017. **Rickert Scholarship: 2014. Google Lime Scholarship: 2014, CHI Best Paper Award 2016, CHI Best Paper Hon. Mention 2016, CHI Best Paper Hon. Mention 2017.** Refereed publications: 6 conference.

Sean Penney, M.S. 2017. Refereed publication: 3 conference. **VLHCC Best Paper Hon. Mention 2017**.

Bhargav Pandya, M.S. 2017. 1 paper.

David Piorkowski, M.S. 2013, Ph.D. 2016. Refereed publications: 8 conference, 1 journal. **IBM PhD Fellowship 2015, CHI Best Paper Award 2016, FSE Distinguished Paper Award 2016, VLHCC Best Paper Honorable Mention 2017.**

William Jernigan, M.S. 2015. **Oregon Lottery Graduate Scholarship: 2014**. Refereed publications: 2 conference, 1 journal.

Todd Kulesza, M.S. 2009, Ph.D. 2014. Refereed publications: 9 conference, 2 journal. **ACM CHI Best Paper Honorable Mention**: 2012, **ACM CHI Best Paper Award**: 2014.

Faezeh Bahmani, M.S. 2014. Refereed publications: 3 conference.

Christopher Bogart, Ph.D. 2013. Refereed publications: 9 conference, 2 journal. System scientist at Carnegie Mellon University.

Jill Cao, Ph.D. 2013. Refereed publications: 8 conference, 4 journal. **ACM CHI Best Paper Honorable Mention**: 2010, **IEEE VLHCC Best Paper Award**: 2011. User Experience Researcher at Mathworks.

Valentina Grigoreanu, Ph.D. 2009, (MS 2007). Refereed publications: 8 conference, 1 magazine, 3 journal. **ACM CHI Best Paper Honorable Mention**: 2010. User Experience Researcher at Microsoft.

Joseph Lawrance, Ph.D. 2009 (M.S. 2005). Refereed publications: 7 conference, 4 journal. **ACM CHI Best Paper Honorable Mention**: 2008. **IBM PhD Scholarship**. Postdoc at MIT. Assistant Professor, Wentworth Institute of Technology, Boston, MA.

Vaishnavi Narayanan, M.S. Sept. 2007. Refereed publications: 2 conference. Joined Microsoft in 2007.

Neeraja Subrahmaniyan, M.S. Sept. 2007. Refereed publications: 3 conference. Joined Microsoft in 2007.

Laura Beckwith, Ph.D. April 2007 (M.S. Nov. 2002). Refereed publications: 10 conference, 1 journal, 1 magazine, 2 workshop/encyclopedia. Joined Microsoft in 2007.

Flora Tan, M.S. June 2006.

Vidya Rajaram, M.S. 2006. Refereed publications: 2 conference, 1 journal. User Experience Researcher at Microsoft.

Cory Kissinger, M.S. May 2006. Refereed publications: 3 conference. Senior Consultant at Revere Group.

Shraddha Sorte, M.S. October 2005. Refereed publications: 2 conference, 1 workshop/encyclopedia. Senior User Experience Designer at NetApp.

Amit Phalgune, M.S. October 2005. Refereed publications: 3 conference. Lead Engineer at Qualcomm.

Zheng Liu, M.S. July 2004.

Joseph Ruthruff, M.S. July 2004. Refereed publications: 2 journal, 6 conference, 2 workshop/encyclopedia. **NSF Graduate Research Fellowship Honorable Mention** 2003. Researcher at Sandia National Lab.

T.J. Robertson, M.S. March 2004. Refereed publications: 1 journal, 1 conference.

Eugene Rogan Creswick, M.S. June 2004. Refereed publications: 1 journal, 2 conference. AI Software Engineer at Stottler Henke Associates.

Darren Brown, (Co-Major Professor), M.S. May 2003. Refereed publications: 3 conference, 1 journal. Software Engineer at Strands.

Bing Ren, M.S. June 2001. Refereed publications: 1 journal, 1 conference. Now at Nike.

Miguel Arredondo-Castro, M.S. May 2001. Refereed publications: 1 journal. Now at SeeByte.

Sudheer Chekka, M.S. July 2001. Refereed publications: 1 conference. Technical Lead at Juniper Networks.

Jay Summet, M.S. July 2001. Refereed publications: 1 journal, 1 conference. Lecturer, Georgia Institute of Technology.

James (Dusty) Reichwein, M.S., June 2000. Refereed publications: 2 journal, 1 conference. Now at BAE Systems.

Nanyu Cao, M.S., June 2000. Refereed publications: 1 journal, 1 conference. Senior Software Engineer at Thomson Grass Valley.

Andrei Sheretov, M.S., January 2000 (jointly advised with Gregg Rothermel). Refereed publications: 2 journal, 1 conference. Senior Engineer, Software Security at Motorola Mobility.

Roger Chen, M.S.,September 1999. Refereed publications: 1 journal. Innovation Architect at Nike.

Rebecca Walpole Djang, Ph.D. 1998. Refereed publications: 2 journal, 3 conference. **NASA Graduate Fellowship.**

David Hackenyos, M.S. August 1998.

Sunanda Mishra, M.A.I.S. April 1998.

Anurag Agrawal, M.S. July 1997. Refereed publications: 1 journal. Now at Google.

Herkimer Gottfried, M.S. December 1996. Refereed publications: 2 journal, 2 conference. Senior Software Engineer at Fiserv.

Sherry Yang, Ph.D. 1996. Refereed publications: 6 journal, 2 conference. Professor at Oregon Institute of Technology.

John Atwood, M.S. January 1996. Refereed publications: 1 journal, 4 conference. Software Engineer at Hewlett-Packard.

Paul Carlson, M.S. April 1995. Refereed publications: 1 journal, 1 conference. Director of Crew Planning and Analysis at United Airlines.

Pieter van Zee, M.S. February 1995. Refereed publications: 2 journal, 1 conference. Chief Technologist, Retail Publishing, at Hewlett-Packard.

Postdocs mentored:

Yann Riche, postdoc summer 2009. Refereed publications: 2 conference long papers, 1 conference short paper. Now User Experience Researcher at Microsoft, **ACM CHI Best Paper Honorable Mention**: 2010.

Simone Stumpf, post-doc, co-advised with Jon Herlocker 2006-2008. Grants co-PI'd: 2 (NSF, Intel). Refereed publications: 1 journal, 3 conference, 2 other. Now Lecturer (equivalent to Assistant Professor), City University London, UK. **ACM CHI Best Paper Honorable Mention**: 2012.

Scott Fleming, post doc (2009-2011). Refereed publications: 5 conference, 3 journal. Now Assistant Professor, University of Memphis, **IEEE VLHCC Best Paper Award**: 2011.

Irwin Kwan post doc (2011-2014). Refereed publications: 4 conference, 2 journal. **ACM CHI Best Paper Honorable Mention**: 2012. Now User Experience Researcher at Mathworks.

Sandeep Kuttal, post doc (2014-2015). Now Assistant Professor, University of Tulsa. **Best Paper Award CHI'16**. **AFOSR Young Investigator Award (2021).**

Anicia Peters, post doc (2014-2015). Now Dean at University of Science and Technology of Namibia. **Best Paper Hon. Mention CHI'16**.

James Macbeth, informal post doc (2013-2015). Now Assistant Professor, Fairfield University. 1 conference paper + 1 journal paper.

Funded undergraduate student research experiences mentored:

Geraldine Jimena Noa (2022-present REU)

Fatima Moussaoui (2022-present REU)

Stella Doehring (2022-present REU)

Sabyatha Sathish Kumar (2021-2022 REU; unfunded).

Aishwarya Vellanka (2020-2021 REU).
Rosalinda Garcia (2019-2021 REU).
Catherine Hu (2018-2021 REU).
Christopher Perdriau (2017-2021 REU). Refereed publications: 3 conference papers, 1 journal paper. **NSF Graduate Fellowship Award 2021**.
Ashwin Subramanian (2020 REU).
Heather DiRuscio (2020 REU).
Zoe Steine-Hanson (2016-2019 REU, Honors Thesis). Refereed publications: 6 conference (ICSE18, ICER18, VLHCC18, CHI19, ICSE20, the paper with her UW summer mentor), 1 Workshop (EduCHI19), **Hon. Mention NSF Graduate Fellow Award 2019**, **NSF Graduate Fellowship Award 2020.**
Teresa Mai (2019 REU, **Waldo-Cummings Outstanding Student Award** 2019); 1 conference paper, 1 journal paper.
Claudia Mini (2016-2017 REU).
Christopher Mendez (2015-2017 REU). Refereed publications: 2 conference, 1 journal. **CHI Best Paper Hon. Mention 2017, NSF Graduate Fellowship 2018.**
Alannah Oleson (2015-2018 REU, Honors Thesis). Refereed publications: 4 conference, 1 journal, 1 book chapter. **Adobe Research Women-in-Technology Scholarship 2017, CHI Best Paper Hon. Mention 2017, Finalist CRA's Outstanding Undergrad Researcher Award, NSF Graduate Fellow Award 2018**.
Shannon Ernst (2015-2016 REU). Refereed publications: 1 conference, 1 book chapter
Sheridan Long (2014 REU). (Unfunded.) Refereed publications: 1 conference.
Taylor Cuilty (2014-2016 REU).
Amber Horvath (2013-2017 REU). Refereed publications: 5 conference, 1 journal. **Honorable Mention for 2015 OSU Undergraduate Research Student of the Year, CHI Best Paper Hon. Mention 2017.**
Charles Hill (2013-2014 REU). **2014 Google Lime Scholarship**.
Jilian LaFerte (2013-2014 REU). Refereed publications: 1 conference.
Hannah Adams (2011-2013 REU). Refereed publications: 1 conference, **2012 Google Anita Borg Scholarship**. Now at Intel Research Lab.
Josh Jordahl (2012 REU). Refereed publications: 1 conference.
Rachel White (2011-2012 REU). Refereed publications: 3 conference.
Forrest Bice (summer 2011 REU; Northeastern Univ.) Refereed publications: 1 conference.
Amber Shinsel (Tektronix scholar 2008-2009, NSF REU 2009-2011). Refereed publications: 4 conference.
William Curran, (NSF REU 2010-2011). Refereed publications: 1 conference.
Jarrod Jackson (undergrad researcher on AFOSR grant 2009-2010). Co-mentored by Christopher Scaffidi.
Kevin McIntosh (NSF REU 2009-2010). Refereed publications: 3 conference. **ACM IUI Best Paper Nominee**: 2011.
Kyle Rector (female. Tektronix scholar 2006, NSF REU 2006-2010). Refereed publications: 6 conference (one with a **Best Paper Award Hon. Mention**), 3 journal. **Google PhD Fellowship, NSF Graduate Fellowship**, **2010 Google Anita Borg Scholarship**, **Waldo-Cummings Honorable mention**, **CRA Outstanding Research Undergraduate finalist.**
Stephen Perona (provided partial funding under NSF REU 2008. Mentored and co-funded by Weng-Keen Wong).
Nicholas Schultz (NSF REU 2007-2008).
Derek Inman (NSF REU 2006-2008). Refereed publications: 2 conference.

Andrew Stucky (NSF REU 2005-2007).
Erin Sullivan (Tektronix/Intel scholar 2006-2007). Refereed publications: 1 conference. Co-mentored with Simone Stumpf.
Evelyn Perez Wick (NSF REU 2004-2005), funded by Tom Dietterich and Jon Herlocker. Co-mentored with Simone Stumpf.
Irene Cooperstein Cole (CRA-W summer 2004, co-mentored with Martin Erwig). Refereed publications: 1 conference.
Aye Thuzar (CRA-W summer 2004). Refereed publications: 1 journal. (M.S. in Computer Science at Ohio State.)
Andrew Christmann (NSF REU 2004-05).
Michael Durham (NSF REU 2003-04, co-mentored with Curtis Cook). Refereed publications: 2 conference.
Orion Granatir (NSF REU 2002-03). Refereed publications: 1 conference.
Ledah Casburn (CRA-W summer 2002). Refereed publications: 1 conference.
Aaron Wilson (NSF REU 2001-02). Refereed publications: 1 conference.
Andrew Ko (NSF REU 1999-01). Refereed publications: 1 journal, 2 conference. **Waldo-Cummings award**, **CRA Outstanding Research Undergraduate honorable mention**, **NSF Graduate Fellowship**.
Frank Cort (NSF REU 1998-9).
Zachary Welch (NSF REU 1997-8). Refereed publications: 1 conference.
Chris DuPuis (NSF REU 1996-7). Refereed publications: 1 conference.
Maureen Chesire (NSF 1996). Refereed publications: 1 conference.
Eric Wilcox (NSF REU 1995-6). Refereed publications: 2 conference.
J. J. Cadiz (NSF REU 1995-6). Refereed publications: 2 conference, **Waldo-Cummings award**.
Marla Baker (NSF REU 1993-4). Refereed publications: 2 journal, **Rhodes Scholarship finalist, NSF Graduate Fellowship.**

Of these undergraduate students who have graduated so far, about 75% have gone on to graduate school at Carnegie I institutions.

Funded high-school student research experiences mentored:
Sarah Yang (Saturday Academy ASE, summer 2022, co-mentored with numerous grad and undergrad students).
Isaac Escobar (Saturday Academy ASE, summer 2022, co-mentored with numerous grad and undergrad students).
Maria Jesus Alzugaray-Orellana (Saturday Academy ASE, summer 2021, co-mentored with numerous grad and undergrad students).
Spencer Madsen (Saturday Academy ASE, summer 2021, co-mentored with numerous grad and undergrad students).
Geraldine Jimena Noa-Guevara (high-school student, summer 2021, co-mentored with numerous grad and undergrad students).
Caroline Gao, (Saturday Academy ASE, summer 2020, co-mentored with Catherine Hu and Rupika Dikkala). **Oregon NCWIT Aspirations in Computing Award, NCWIT Aspirations in Computing Honorable Mention (national),** 2020-2021.
Sai Raja (Saturday Academy ASE, summer 2019-fall 2020, co-mentored with Christopher Perdriau, Theresa Mai, Andrew Anderson, Catherine Hu, Rupika Dikkala).
Caleb Matthews, (Saturday Academy ASE, summer 2019-fall 2020, co-mentored with Christopher Perdriau, Theresa Mai, Andrew Anderson, Catherine Hu, Rupika Dikkala).

Anusha Vasudevan, (Saturday Academy ASE, summer 2019, co-mentored with Christopher Perdriau, Theresa Mai, and Andrew Anderson).

Kaitlyn Duthil (Saturday Academy ASE, summer 2018, co-mentored with Claudia Hilderbrand).

Malika Gottfried (Saturday Academy ASE, summer 2018, co-mentored with Claudia Hilderbrand).

Logan Simpson (Saturday Academy ASE, summer 2017, and summer 2018, co-mentored with Christopher Mendez, Zoe Steine-Hanson, Claudia Hilderbrand, Andrew Anderson).

Nupoor Patil (Saturday Academy ASE, summer 2017, co-mentored with Christopher Mendez and Zoe Steine-Hanson).

Claire Richards (Saturday Academy ASE, summer 2015, co-mentored with Will Jernigan, Christopher Mendez, and Alannah Oleson).

Rory Moeller (Saturday Academy ASE, summer 2015, co-mentored with Will Jernigan, Christopher Mendez, and Alannah Oleson).

Renuka Bhatt (Saturday Academy ASE, summer 2014, co-mentored with Amber Horvath and Will Jernigan).

Leah Hanen (Saturday Academy ASE, summer 2014, co-mentored with Amber Horvath and Will Jernigan).

Sheridan Long (Saturday Academy ASE, summer 2013, co-mentored with Jilian LaFerte, Amber Horvath, and Faezeh Bahmani). (Also summer 2014, unfunded.) Refereed publications: 1 conference.

Angelica Allen (Saturday Academy ASE, summer 2013, co-mentored with Jilian LaFerte, Amber Horvath, and Faezeh Bahmani). **Oregon winner, NCWIT Aspirations in Computing Award**, 2014.

Romina Rodriguez (Saturday Academy ASE, summer 2012, co-mentored with Josh Jordahl and David Piorkowski).

Amber Horvath (Saturday Academy ASE, summer 2012, co-mentored with Josh Jordahl and David Piorkowski). **Oregon Runner-Up, NCWIT Aspirations in Computing Award, 2013**. Later hired her as an REU.

Rachel Pearce-Smith (Saturday Academy ASE, summer 2011, co-mentored with Jill Cao and Hannah Adams).

Damian Kulp (Saturday Academy ASE, summer 2011, co-mentored with Todd Kulesza, Forrest Bice, and Hannah Adams).

Nicole Usselman (Saturday Academy ASE, summer 2010, co-mentored with Jill Cao and Kevin McIntosh). **Oregon winner + National Runner-Up, NCWIT Aspirations in Computing Award**, 2011.

Jeremy Goodrich (Saturday Academy ASE, summer 2010, co-mentored with Todd Kulesza and Kevin McIntosh).

Forrest Bice (Saturday Academy ASE, summer 2009, co-mentored with Todd Kulesza). 1 paper. Rehired for a second summer, (2010) and then rehired for a third as an REU.

Diana Salazar (Saturday Academy ASE, summer 2009, co-mentored with Jill Cao).

Rachel White (Saturday Academy ASE, summer 2008, co-mentored with Todd Kulesza). Refereed publications: 1 conference. Worked with her informally a few times later, and then she worked for me as an REU for about a year.

Akshay Subramanian (Saturday Academy ASE, summer 2008, co-mentored with Todd Kulesza).

Russell Drummond (Saturday Academy ASE, summer 2006, co-mentored with Neeraja Subrahmaniyan and Vidya Rajaram). Refereed publications: 2 conference.

Karin Bucht (Saturday Academy ASE, summer 2006, co-mentored with Valentina Grigoreanu). Refereed publications: 1 conference.
Sienna Hiebert (Saturday Academy ASE, summer 2005, co-mentored with Laura Beckwith).
Michelle Hastings (Saturday Academy ASE, summer 2004, co-mentored with Laura Beckwith). Refereed publications: 1 conference.

***Courses Taught***

CS 419/519, Inclusive Design (Fall 2016).
CS 468/568, Inclusive Design (Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022).
CS 564, Field Studies in Software Engineering and HCI (Winter 2021).
CS 565, HCI (Spring 2018, Spring 2019).
CS/ECE 507, EECS Ethics, Professionalism, and Diversity/Power/Discrimination. (Fall 2016).
CS 519, Personas Methods in HCI and User-Centered Design: 4 hours graduate. (Winter 2015).
CS 569, Empirical Methods for Software Engineering: 4 hours, graduate. (Spring 2007 (co-listed with 589), 2008; Winter 2011, 2014 (co-listed with 589); Spring 2013; Fall 2014).
CS 584, Human Factors of Programming Languages: 4 hours, graduate. (Spring 2006, Spring 2008, Spring 2010, Winter 2012, Fall 2013).
CS 589, Visual Programming Languages/HCI of Programming Languages/Empirical: 4 hours, graduate. (Spring 1994, 1995, 1997; Winter 1999, 2001, 2008, 2014 (co-listed with 569); Spring 2003, 2004, 2007 (co-listed with 569); Fall 2010, 2011).
CS 589, Object-Oriented Programming Languages: 4 hours, graduate. (Fall 1993)
CS 581 (aka CS 535 at Michigan Tech), Advanced Programming Languages: 4 hours, graduate. (Winter 1991/1992, 1994, 1996, 1998, 2000, 2005).
CS 511 Operating Systems: 4 hours, graduate, combined with CS 411. (Fall 1997, 1998).
Visual Programming Languages Readings Group: a no-credit directed readings course for graduate students meeting once per week. (Winter 1993, Spring 1993).
Visual Programming Languages Research (credit): 3 hours, graduate-level course meeting three times per week (Spring 1993, Summer 1993). This involved extensive reading and analysis, and culminated in a survey paper (published in IEEE's *Computer*, 1995). To participate, students signed up for independent study.
Visual Programming Research (non-credit): I direct a research group that at first consisted solely of my own research students (graduate and undergraduate), but now also includes some of Dr. Cook's and Dr. Rothermel's students. Meets once to twice per week to discuss readings, research ideas, and implementation matters. Some of our research and sabbatical visitors also attend these meetings. Usual number of attendees is approximately 12-15.

CS 411, Operating Systems II: 4 hours, junior/senior (Fall 1995; Fall 1996 with C. Pancake; Fall 1997, 1998, 2003; Spring 2004).
CS 410 (Michigan Tech), File Structures: 4 hours, junior/senior. (Winter 1991/1992, Spring 1992)
CS 391, Social and Ethical Issues in Computer Science: 3 hours, undergraduate (Fall 1994 with L. Crowl)
CS 381 (aka CS 420 at Michigan Tech) Programming Languages: 4 hours, junior/senior. (Fall 1991; Spring and Fall 1992; Winter 1993, 1995; Winter and Spring 1996; Fall 1996; Spring and Fall 1997; Spring and Fall 1998; Winter and Fall 1999; Spring and Fall 2000; Fall 2002).
CS 361, Software Engineering I: 4 hours, juniors. (Fall 2004, 2006; Winter 2005, 2006, 2008).

CS 352, Human Computer Interaction: 4 hours, juniors (Winter 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2022).
CS 161, Introduction to Computer Science I: 4 hours, freshman (Winter 2001).
CS 101, Computer Applications and Implications: 3 hours, freshman (Winter 1995 with T. Budd).

***Courses Developed***

CS 352-ecampus, Human Computer Interaction: 4 hours, junior (Summer 2012).
CS 519, Personas Methods in HCI and User-Centered Design (Winter 2015).
CS 584, Human Factors of Programming Languages: 4 hours, graduate (Spring 2006).
CS 468/568, Inclusive Design (Fall 2017).
CS 565, HCI (Spring 2018)
CS/ECE 507, EECS Ethics, Professionalism, and Diversity/Power/Discrimination (Fall 2016).