BETH SIMON

Computer Science and Engineering Dept.
University of California, San Diego
9500 Gilman Drive
San Diego, CA 92093-0404

Email: bsimon@cs.ucsd.edu
Home Page: http://www.cs.ucsd.edu/~bsimon
Phone (858)534-5419; Fax (858)534-7029

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO
Ph.D. in Computer Science and Engineering, March 2002.
Dissertation: *Turning Predicate Information to Advantage to Improve Compiler Scheduling and Branch Prediction*
Advisors: Jeanne Ferrante and Brad Calder.

M.S. in Computer Science and Engineering, 1998.

UNIVERSITY OF DAYTON
B.S. in Computer Science and Spanish, summa cum laude, 1995.

PROFESSIONAL EXPERIENCE

UNIVERSITY OF CALIFORNIA, SAN DIEGO
September 2005-present. La Jolla, CA, USA.
Lecturer with Security of Employment, an education-oriented, senate faculty-line appointment
Computer Science and Engineering Department.

UNIVERSITY OF CALIFORNIA, SAN DIEGO
July 2011-present. La Jolla, CA, USA.
Director, Center for Teaching Development (50% FTE)

UNIVERSITY OF BRITISH COLUMBIA CARL WIEMAN SCIENCE EDUCATION INITIATIVE
August 2007-May 2008. Vancouver, BC, Canada.
Science Teaching and Learning Fellow
Computer Science Department.

SAN DIEGO SUPERCOMPUTER CENTER
May 2003-August 2005. La Jolla, CA, USA.
Researcher, Performance Modeling and Characterization Laboratory.

UNIVERSITY OF SAN DIEGO
January 2002-August 2005 (on leave August 2004-August 2005). San Diego, CA, USA.
Assistant Professor of Computer Science.

INTEL CORPORATION
May-August 2000. San Jose, CA, USA.
Summer research internship in IA-64 IL0 compiler group.
Supervisors: David C. Sehr, Daniel Lavery
Santa Clara, CA.

PROFESSIONAL ACTIVITIES

Program Committee Member or Chair
• Chair, International Computing Education Research Conference (ICER) 2013 (co-chair 2012, 2014).
• Program Committee, International Computing Education Research Conference (ICER) 2007-2011.
• Workshops Chair (inaugural), International Computing Education Research (ICER) 2010, 2011.

- Associate Program Chair (inaugural), SIGCSE Conference 2009, 2010.
- Doctoral Consortium Chair, International Computing Education Research (ICER) 2008-2009.
- Program Committee, International Conference on Computer Supported Education, 2009.
- Working Group Chair (co-Chair Sue Fitzgerald), Innovation and Technology in Computer Science Education 2007, "Developing Novice Debugging Techniques via youTube Video".
- Local Chair, 2006 Grace Hopper Celebration of Women in Computing Program Committee.
- Program Committee, SC'05 (Supercomputing), 2005,
- Program Committee, International Conference on Parallel Processing, 2005.

Other Professional Activities
- Advanced Placement (College Board) Computer Science Principles University Pilot (1000+ students) 2010-2011, funded by NSF Broadening Participation in Computing. http://csprinciples.org
- International Society of Technology in Education (ISTE) Assessment Mentor for HP Technology in Teaching Program 2009-2010.
- Advanced Placement (College Board) Computer Science Principles Advisory Group, 2009-present.
- Reviewer, The ACM Transactions on Computing Education, 2010.
- Advisory Board, Center for Graduate Education Initiative, Japan Advanced Institute of Science and Technology 2010-present.
- UCSD National Center on Women in Technology Representative 2008-present.
- Reviewer, Journal of Computer Science Education 2007-present.
- Panel Member or Chair, various National Science Foundation Review Panels (DUE and CISE) 2004-present.
- Reviewer, American Journal of Physics (Physics Education Research), 2009.
- Guest editor (w/ Donald Joyce) Computer Science Education: Special Issue on Doctoral Issues, Fall 2009.
- Grace Hopper Celebration of Women in Computing Advisory Board, 2008.
- Reviewer, Conference on Human Factors in Computing Systems (CHI), 2008.
- MentorNet Mentor, 2007-2009.
- Invited Researcher, Bracelet Australasian Computing Project 2007.
- Computing Research Association's Committee on the Status of Women's Distributed Mentorship Project Mentor 2005, 2006, 2007; Selection Committee, 1999.
- Microsoft Research Computational Education for Scientists Workshop (by invitation), Fall 2007, Fall 2008.
- Microsoft Research Assessment of Educational Impact Consultant, 2007.
- Reviewer, Workshop on the Impact of Pen Technology in Education 2006-2009.
- Microsoft Tablet PC Workshop, University of Washington, 2004, 2005.
- Innovation and Technology in Computer Science Education 2004 Working Group Member. "A Study of the Programming Knowledge of First-Year CS Students".
- National Science Foundation Workshop on Computer Science Education Research (Scaffolding) 2003-2004. International 2-year long computer science education research training program and project exploring student's understanding of software design.
- National Science Foundation Workshop on Teaching Computer Ethics, 2002.

GRANTS, CONTRACTS, & GIFTS
- National Science Foundation, Department of Undergraduate Education, Transforming Undergraduate Education in STEM, Collaborative Research: Peer Instruction in Computer Science (Type 1) Award, $106,988, 2012-present. PI Simon.
- National Science Foundation, CISE, Computing Education for the 21st Century, Computing Principles for All Students' Success (ComPASS) (Type 1) Award, $704,131, PI Baxter.
- National Science Foundation, Department of Undergraduate Education, Course Curriculum and Laboratory Improvement, PeerWise: Students Creating, Sharing, and Evaluating their own Exam Questions (Phase 1) Award, $245,000, 2009-2012. PI: Simon
- National Science Foundation, CNS EAGER, EAGER: Transforming Attitudes via Best Practices CS1, $250,000, 2009-2011. PI: Simon

- National Science Foundation, Department of Undergraduate Education, Course Curriculum and Laboratory Improvement, Collaborative Research: Commonsense computing: what students know before we teach (Phase 1) Award (co-PIs Gary Lewandowski, Dennis Bouvier, Tammy VanDeGrift, Tzu Yi Chen), $28,000, 2008-2010. PI: McCartney
- National Science Foundation, Department of Undergraduate Education, Course Curriculum and Laboratory Improvement, Workshop on Novice Abilities in Locating Software Bugs, $15,000, 2007-2009. PI: Simon
- National Science Foundation, Department of Undergraduate Education, Course Curriculum and Laboratory Improvement, Workshop on Statistics for CS Education Research, $15,000, 2006-2009. PI: Simon
- National Science Foundation, Department of Undergraduate Education, Course Curriculum and Laboratory Improvement, "Breaking Barriers in Communication: Technology-Enabled Active Learning for STEM Disciplines", Phase 2 Award (with co-PI Bill Griswold), $400,000 2007-2009. PI: Simon
- Microsoft Tablet PC in Higher Education Grant Recipient (with Bill Griswold), $45,000, 2006.
- Hewlett-Packard Higher Education HP Technology for Teaching Grant Recipient (with Bill Griswold), $69,000, 2006.
- Microsoft Tablet PC in Higher Education Grant Recipient (with Bill Griswold), $74,000, 2005.
- University of San Diego Teaching and Learning Grant 2003-2004.

HONORS & ACHIEVEMENTS

- UCSD Jacobs School of Engineering Annual Best Teacher Award Selected by Ballot of the Students, Department of Computer Science and Engineering. 2006-2007 and 2008-2009.

JOURNAL PUBLICATIONS

J13. Paivi Kinnunen and Beth Simon. Phenomenography and Grounded Theory as Research Methods in Computing Education Research Field. In *Journal of Computer Science Education*. 22(2), 199-218, 2012.

J12. Paivi Kinnunen and Beth Simon. My program is OK – am I? Computing freshmen's experiences of doing programming assignments. In *Journal of Computer Science Education*. 22(1), 1-28, 2012

J11. Sue Fitzgerald, Renée McCauley, Brian Hanks, Laurie Murphy, Beth Simon, and Carol Zander. Debugging From the Student Perspective. *IEEE Transactions on Education*. 53(3), 390-396. August 2010.

J10. Dennis Bouvier, Tzu-Yi Chen, Gary Lewandowski, Robert McCartney, Kate Sanders, Beth Simon and Tammy VanDeGrift. Commonsense Understanding of Concurrency: Computing Students and Concert Tickets. *Communications of the ACM*. July 2010.

J9. Edward Price and Beth Simon. Ubiquitous Presenter: A Tablet PC-based System to Support Instructors and Students, *The Physics Teacher*, 47 (9), 570-573.

J8. Beth Simon and Jared Taylor. What is the Value of Course-Specific Learning Goals. *Journal of College Science Teaching*, 39(2), 52-57.

J7. Anders Berglund, Anna Eckerdal, Arnold Pears, Philip East; Päivi Kinnunen, Lauri Malmi, Robert McCartney, Jan-Erik Moström, Laurie Murphy, Mark Ratcliffe, Carsten Schulte, Beth Simon, Ioanna Stamouli, and Lynda Thomas. Learning computer science: perceptions, actions and roles. *European Journal of Engineering Education*, 34 (4), 327-338.

J6. Renee McCauley, Sue Fitzgerald, Gary Lewandowski, Laurie Murphy, Beth Simon, Lynda Thomas, Carol Zander. Debugging: A Review of the Literature from an Educational Perspective. In *Journal of Computer Science Education, Special Issue on Debugging by Novice Programmers*. Ray Lister guest editor, 18(2) 67-92.

J5. Sue Fitzgerald, Gary Lewandowski, Renee McCauley, Laurie Murphy, Beth Simon, Lynda Thomas, Carol Zander. Debugging: Finding, Fixing, and Flailing, A Multi-Institutional Study of Novice Debuggers. In *Journal of Computer Science Education, Special Issue on Debugging by Novice Programmers*. Ray Lister guest editor, 18(2) 93-116.

J4. Beth Simon, Dennis Bouvier, Tzu-Yi Chen, Gary Lewandowski, Robert McCartney, Kate Sanders. Commonsense Computing: (Episode 4): Debugging. In *Journal of Computer Science Education, Special Issue on Debugging by Novice Programmers*. Ray Lister guest editor, 18(2) 117-133.

J3.   Beth Simon, Brian Hanks. First Year Students' Impressions of Pair Programming in CS1. Re-published in *Journal of Educational Resources in Computing*. Special Issue featuring papers from the third International Computing Education Research Workshop. 7(4) Article No. 5, January 2008. Original publication in Third International Computing Education Research Workshop, September, 2007.

J2.   Tammy VanDeGrift, Beth Simon, Dean Sanders, and Ken Blaha. Do Students Recognize Ambiguity in Software Specifications? A Multi-national, Multi-institutional Report. In *Software Engineering Education in the Modern Age.* Paola Inverardi and Mehdi Jazayeri (editors), LNCS 4309, Springer, 2006, pp. 71-88.

J1.   Josh Tenenberg, Sally Fincher, Ken Blaha, Dennis Bouvier, Tzu-Yi Chen, Donald Chinn, Stephen Cooper, Anna Eckerdal, Hubert Johnson, Robert McCartney, Alvaro Monge, Jan Erik Mostrom, Marian Petre, Kris Powers, Mark Ratcliffe, Anthony Robins, Dean Sanders, Leslie Schwartzman, Beth Simon, Carol Stoker, Allison Elliot Tew, Tammy VanDeGrift. Students designing software: a multi-national, multi-institutional study. In *Informatics in Education*, 4(1):143-162, May 2005.

BOOK CHAPTERS

B1.   Andrew Begel and Beth Simon. "Novice Professionals: How Newly-Hired Recently-Graduated Software Developers Fare in their First Software Engineering Job", In *Beautiful Evidence*, Ed. Greg Wilson. O'Reilly Press. 2010.

REFEREED CONFERENCE PUBLICATIONS
(Note: Conferences are often the premiere publication venue in Computer Science)

C61.   Leo Porter and Beth Simon. Retaining 18-30% more Majors with a Trio of Instructional Best Practices in CS1. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2013.

C60.   Jaime Spacco, Julian Parris, Beth Simon. How We Teach Impacts Student Learning: Peer Instruction vs. Lecture in CS0. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2013.

C59.   Leo Porter, Cynthia Bailey-Lee, and Beth Simon. Halving Fail Rates using Peer Instruction: A Study of Four Computer Science Courses. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2013.

C58.   Sarah Esper, Beth Simon, and Quintin Cutts. Exploratory Homeworks: An Active Learning Tool for Textbook Reading. In *Proceedings of the Eighth International Computing Education Research Conference,* September, 2012.

C57.   Quintin Cutts, Sarah Esper, Marlena Fecho, Stephen Foster, and Beth Simon. The Abstraction Transition Taxonomy: Developing Desired Learning Outcomes through the Lens of Situated Cognition. In *Proceedings of the Eighth International Computing Education Research Conference,* September, 2012.

C56.   Quintin Cutts, Sarah Esper and Beth Simon. Computing as the 4th "R": A General Education Approach to Computing Education. In *Proceedings of the Seventh International Computing Education Research Workshop,* August, 2011.

C55.   Paul Denny, Brian Hanks, Beth Simon and Spencer Bagley. PeerWise: Exploring Conflicting Efficacy Studies. In *Proceedings of the Seventh International Computing Education Research Workshop,* August, 2011.

C54.   Leo Porter, Cynthia Bailey-Lee, Beth Simon and Daniel Zingaro. Peer Instruction: Do Students Really Learn from Peer Discussion in Computing? In *Proceedings of the Seventh International Computing Education Research Workshop,* August, 2011.

C53.   Päivi Kinnunen and Beth Simon. CS Majors' Self-Efficacy Perceptions in CS1: Results in Light of Social Cognitive Theory. In *Proceedings of the Seventh International Computing Education Research Workshop,* August, 2011.

C52.   Leo Porter, Cynthia Bailey Lee, Beth Simon, Quintin Cutts, Daniel Zingaro. Experience report: a multi-classroom report on the value of peer instruction. In *Proceedings of the 16th Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, 2011.

C51.   Tammy VanDeGrift, Tamara Caruso, Natalie Hill, Beth Simon. Experience Report: Getting Novice Programmers to THINK about Improving their Software Development Process. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2011.

C50.   Beth Simon, Elizabeth Bales, William G. Griswold, Stephen Cooper. Case Study: Faculty Professional Development Workshops for Innovation Diffusion. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2011.

C49.   Beth Simon, Mike Clancy, Robert McCartney, Briana Morrison, Brad Richards and Kate Sanders. Making sense of data structures exams. In *Proceedings of the Sixth International Computing Education Research Workshop,* August, 2010.

C48.   Päivi Kinnunen and Beth Simon. Experiencing Programming Assignments in CS1: The Emotional Toll. In *Proceedings of the Sixth International Computing Education Research Workshop,* August, 2010.

C47.   Beth Simon, Paivi Kinnunen, Leo Porter, Dov Zazkis. Experience Report: CS1 for Majors with Media Computation. In *Proceedings of the 15th Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, 2010.

C46.   Paul Denny, Brian Hanks, and Beth Simon. PeerWise: Replication Study of a Student-Collaborative Self-Testing Web Service in a U.S. Setting. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2010

C45.   Beth Simon, Michael Kohanfars, Jeff Lee, Karen Tamayo, Quintin Cutts. Experience Report: Peer Instruction in Introductory Computing. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2010.

C44.   Michael Stepp and Beth Simon. Introductory Computing Students' Concepts of Illegal Student-Student Collaboration. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2010.

C43.   Elizabeth Bales, William Griswold, Beth Simon, Aaron Hieber, Michael J. Kelly, James Lintern, and David Ouyang. Use of Ubiquitous Presenter: 2006-2009. *Proceedings of the 4th Workshop on the Impact of Pen Technologies in Education*, October 2009

C42.   Beth Simon, Brian Hanks, Renee McCauley, Briana Morrison, Laurie Murphy and Carol Zander, "For Me, Programming Is ...". In Proceedings of the *Fifth International Computing Education Research Workshop*, August, 2009.

C41.   Robert McCartney, Dennis Bouvier, Tzu-Yi Chen, Gary Lewandowski, Kate Sanders, Beth Simon and Tammy VanDeGrift. Commonsense Computing (episode 5): Algorithm Efficiency and Balloon Testing. In Proceedings of the *Fifth International Computing Education Research Workshop*, August, 2009.

C40.   Carol Zander, Lynda Thomas, Beth Simon, Laurie Murphy, Renée McCauley, Brian Hanks, Sue Fitzgerald. Learning styles: novices decide. In *Proceedings of the 14th Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, 2009.

C39.   Brian Hanks, Laurie Murphy, Beth Simon, Renée McCauley, Carol Zander. CS1 students speak: advice for students by students. In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2009.

C38.   Paul Denny, Andrew Luxton-Reilly, Beth Simon. Quality of student contributed questions using PeerWise. In *Proceedings of the Eleventh Australasian Computing Education Conference*, January, 2009.

C37.   Beth Simon, Brian Hanks, Laurie Murphy, Sue Fitzgerald, Renée McCauley, Lynda Thomas and Carol Zander. Saying Isn't Necessarily Believing: Influencing Self-theories in Computing. In Proceedings of the *Fourth International Computing Education Research Workshop*, September, 2008.

C36.   Andrew Begel and Beth Simon. Novice software developers, all over again. . In Proceedings of the *Fourth International Computing Education Research Workshop*, September, 2008.

C35.   Paul Denny, Andrew Luxton-Reilly, Beth Simon. Evaluating a new exam question: Parsons problems. . In Proceedings of the *Fourth International Computing Education Research Workshop*, September, 2008.

C34.   Judy Sheard, Angela Carbone, Raymond Lister, Beth Simon, Errol Thompson, Jacqueline L. Whalley. Going SOLO to Assess Novice Programmers. In Proceedings *of 13th Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, June 2008.

C33.   Laurie Murphy, Gary Lewandowski, Renee McCauley, Beth Simon, Lynda Thomas, Carol Zander. Debugging: The good, the bad and the quirky – a qualitative analysis of novices strategies. In Proceedings of the *Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2008.

C32.   Andrew Begel and Beth Simon. Struggles of New College Graduates in their First Software Development Job. In Proceedings of the *Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2008.

C31.   Beth Simon, Krista Davis, William G. Griswold, Michael Kelly, Roshni Malani. NoteBlogging: Taking Note Taking Public. In Proceedings of the *Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2008.

C30.   Gary Lewandowski, Dennis J. Bouvier, Robert McCartney, Kate Sanders, Beth Simon. Commonsense Computing (episode 3): Concurrency and Concert Tickets. In Proceedings of the *Third International Computing Education Research Workshop*, September, 2007.

C29.   Beth Simon and Brian Hanks. First Year Students' Impressions of Pair Programming in CS1.   . In Proceedings of the *Third International Computing Education Research Workshop*, September, 2007.

C28.   K. M. Davis, Michael Kelly, Roshni Malani, William G. Griswold, Beth Simon. Preliminary Evaluation of NoteBlogger: Public Note-taking in the Classroom. In Proceedings of the *2nd Workshop on the Impact of Pen Technologies in Education*, June 2007.

C27.   Edward Price and Beth Simon. Instructor Inking in Physics Classes with Ubiquitous Presenter. In Proceedings of the *2nd Workshop on the Impact of Pen Technologies in Education*, June 2007.

C26.   Edward Price and Beth Simon. A Survey to Assess the Impact of Tablet PC-based Active Learning: Preliminary Report and Lessons Learned. In *Proceedings of the 2nd Workshop on the Impact of Pen Technologies in Education*, June 2007

C25.   Tzu-Yi Chen, Gary Lewandowski, Robert McCartney, Kate Sanders, Beth Simon Commonsense Computing: Using student sorting abilities to improve instruction. In Proceedings of the *Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2007.

C24.   David Lindquist, Tamara Denning, Michael Kelly, Roshni Malani, William G. Griswold, Beth Simon. Exploring the Potential of Mobile Phones for Active Learning in the Classroom. In Proceedings of the *Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium,* March 2007.

C23.   Tamara Denning, Michael Kelly, David Lindquist, Roshni Malani, William G. Griswold, Beth Simon. Lightweight Preliminary Peer Review: Does in-class peer review make sense?   In Proceedings of *the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2007.

C22.   Edward Price, Roshni Malani, and Beth Simon. Characterization of Instructor and Student Use of Ubiquitous Presenter, a Presentation System Enabling Spontaneity and Digital Archiving. 2006 *Physics Education Research Conference, AIP Conference Proceedings* Vol. 883, pp. 125-128.

C21.   Beth Simon, Tzu-Yi Chen, Gary Lewandowski, Robert McCartney, Kate Sanders. Commonsense Computing: What students know before we teach (Episode 1: Sorting) . In Proceedings of the *Second International Computing Education Research Workshop*, September, 2006.

C20.   Raymond Lister, Beth Simon, Errol Thompson, Jacqueline Whalley, Christine Prasad. Not Seeing the Forest for the Trees: Novice Programmers and the SOLO Taxonomy. In *Proceedings of the 11th Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, pages 118-122, 2006.

C19.   Errol Thompson, Jacqueline Whalley, Raymond Lister, Beth Simon. Code classification as a learning and assessment exercise for novice programmers. *In Proceedings of the 19th Annual Conference of the National Advisory Committee on Computing Qualifications*, 2006.

C18.   Erik Buchanan, Tamara Denning, Michael Kelly, David Lindquist, William G. Griswold, Beth Simon. Technology-enabled active learning: What to do in large classrooms with few devices? In Proceedings of the *2006 American Society for Engineering Education Pacific Southwest Section Conference*, April 2006.

C17.   Richard Anderson, Ruth Anderson, Oliver Chung, K. M. Davis, Peter Davis, Craig Prince, Valentin Razmov and Beth Simon. Classroom presenter - a classroom interaction system for active and collaborative learning. In Proceedings of the *Workshop on the Impact of Pen Technologies in Education*, pages 21-30, March 2006.

C16. Tamara Denning, William Griswold, Beth Simon and Michelle Wilkerson. Multimodal communication in the classroom: what does it mean for us? In Proceedings of the *37th Annual SIGCSE Technical Symposium on Computer Science Education*, pages 219-223, February 2006.

C15. Tzu-Yi Chen, Alvaro Monge, Beth Simon. Relationship of Early Programming Language to Novice Generated Design. In Proceedings of the 37th *Annual SIGCSE Technical Symposium on Computer Science Education*, pages 495-499, February 2006.

C14. Richard Anderson, Ruth Anderson, Luke McDowell, Beth Simon. Use of classroom presenter in engineering courses. In Proceedings of the *35th Annual Frontiers in Education Conference*, pages 13-18, October 2005.

C13. Xiaofeng Gao, Michael Laurenzano, Beth Simon, Allan Snavely. Reducing overheads for acquiring dynamic traces. In Proceedings of the *IEEE International Workload Characterization Symposium (IISWC05)*, pages 46-55,October 2005.

C12. Sue Fitzgerald, Beth Simon, Lynda Thomas. Strategies that students use to trace code: an analysis based in grounded theory. In Proceedings of the *2005 International Workshop on Computing Education Research*, pages 69-80, October 2005.

C11. Xiaofeng Gao, Beth Simon, Allan Snavely. ALITER: an asynchronous lightweight instrumentation tool for event recording. In *ACM SIGARCH Computer Architecture News Special Issue on the 2005 Workshop on Binary Instrumentation and Applications*, page 33-38, September 2005.

C10. Michael Laurenzano, Beth Simon, Allan Snavely, Meghan Gunn. Low cost trace-driven memory simulation using SimPoint. In *ACM SIGARCH Computer Architecture News Special Issue on the 2005 Workshop on Binary Instrumentation and Applications*, pages 81-86, September 2005.

C9. Ken Blaha, Alvaro Monge, Dean Sanders, Beth Simon, Tammy VanDeGrift. Do students recognize ambiguity in software design? a multi-national, multi-institutional report. In Proceedings of the 27th *International Conference on Software Engineering*, pages 615-616, May 2005.

C8. Michelle Wilkerson, Bill Griswold, Beth Simon. Ubiquitous presenter: increasing student access and control in an digital lecturing environment. In Proceedings of the *36th Annual SIGCSE Technical Symposium on Computer Science Education*, pages 116-120, February 2005.

C7. Ray Lister (chair), William Fone, Robert McCartney, Otto Seppälä, Elizabeth S. Adams, John Hamer, Jan Erik Moström, Beth Simon, Sue Fitzgerald, Morten Lindholm, Kate Sanders, Lynda Thomas. A multi-national study of reading and tracing skills in novice programmers. In *ACM Bulletin Inroads*, pages 119-150, December 2004. Invited

C6. Sally Fincher, Marian Petre, Josh Tenenberg, Ken Blaha, Dennis Bouvier, Tzu-Yi Chen, Donald Chinn, Stephen Cooper, Anna Eckerdal, Hubert Johnson, Robert McCartney, Alvaro Monge, Jan Erik Mostrom, Kris Powers, Mark Ratcliffe, Anthony Robins, Dean Sanders, Leslie Schwartzman, Beth Simon, Carol Stoker, Allison Elliot Tew, Tammy VanDeGrift. A multi-national, multi-institutional study of student-generated software designs. *4th Annual Finnish/Baltic Sea Conference on Computer Science Education*, pages 20-28, October 2004.

C5. Beth Simon, Ruth Anderson, Crystal Hoyer and Jonathan Su. Preliminary experiences with a tablet PC based system to support active learning in computer science courses. In Proceedings of the *9th Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, pages 213-217, June 2004.

C4. Richard Anderson, Ruth Anderson, Beth Simon, Steven A. Wolfman, Tammy VanDeGrift, and Ken Yasuhara. Experiences with a tablet PC based lecture presentation system in computer science courses. In Proceedings of the *35th SIGCSE Technical Symposium on Computer Science Education*, pages 56-60, March 2004.

C3. Richard Anderson, Ruth Anderson, Crystal Hoyer, Beth Simon, Fred Videon, and Steve Wolfman. Lecture presentation from the Tablet PC. *Workshop on Advanced Collaborative Environments (WACE)* pages 8-15, June 2003.

C2. Beth Simon, Richard Anderson, and Steven Wolfman. Activating computer architecture with classroom presenter. *10th Workshop on Computer Architecture Education*, pages 64-71, June 2003.

C1. Beth Simon, Brad Calder, and Jeanne Ferrante. Incorporating predicate information into branch predictors. In Proceedings of the *9th International Symposium on High Performance Computer Architecture (HPCA'03)*, pages 53-64, February 2003.