

Anita Sarma

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RESEARCH AREAS: software engineering to support coordination in distributed software development; end-user programming; computer-supported cooperative work; interaction design and information visualization

EDUCATION

- 2002 – 2007 Doctor of Philosophy in Computer Science
University of California, Irvine
Dissertation Title: *Palantir: Enhancing Configuration Management Workspaces to Support Distributed Software Development*
Advisor: André van der Hoek
- 2000 – 2002 Master of Science in Computer Science
University of California, Irvine
Concentration: Software Engineering
- 1994 – 1998 Master of Management Studies
Birla Institute of Technology and Sciences (BITS)
Pilani, Rajasthan, India
Concentration: Finance and Software

EXPERIENCE

- 2009 – Present Assistant Professor
University of Nebraska, Lincoln
Department of Computer Science and Engineering
- 2008 – 2009 Post Doctoral Fellow
Carnegie Mellon University, Institute for Software Research
Area: Software Engineering
Advisor: James Herbsleb
- 2000 – 2007 University of California, Irvine, Donald Bren School of Information and Computer Sciences
Graduate Research Assistant (2001 – 2007)
Teaching Assistant (2000 – 2001)
- Summer 2004 IBM Research Labs, Collaborative User Experience Group, Cambridge, MA
Intern
- Summer 2001 University of California, Irvine
COSMOS (California State Summer School for Mathematics and Sciences)
Instructor of Record
- 1998 – 2000 IMRglobal Limited, Mumbai, India
Module Leader (February 2000 – July 2000)
Programmer and Analyst (August 1998 – February 2000)
- Jan – Jul 1998 Industrial Development Bank of India, Mumbai, India
Intern

RESEARCH FUNDING

- 2013 NSF, “HCC: Large: Collaborative Research: Variations to Support Exploratory Programming”, (PI) - \$857,156; 08/01/2013 – 07/31/2017.
- 2013 NSF, “SHF: CAREER: Conflict Minimization in Distributed Software Development”, (PI) - \$500,000; 05/15/2013 – 05/14/2018.
- 2011 NSF, REU Supplement award to "HCC: Large: Collaborative Research: Large-Scale Human-Centered Coordination Systems to Support Interdependent Tasks in Context", (PI) - \$16,000: 09/01/2011 – 08/31/2014.
- 2011 NSF, "HCC: Large: Collaborative Research: Large-Scale Human-Centered Coordination Systems to Support Interdependent Tasks in Context", (PI) - \$251,936; 09/01/2011 – 08/31/2014.
- 2010 AFOSR (Air Force Office of Scientific Research), “Safeguarding End-User Military Software”, supported as an earmark to Nebraska, (one of five co-PIs) - \$3,955,290; 10/01/2010 – 9/30/2014.
- 2010 NSF, “SHF: Supporting Continuous Awareness and Exploration of Social and Design Dependencies”, (PI) - \$166,143; 08/15/2010 – 08/14/2013.
- 2010 UNL, Layman award - “Characterizing Software Conflicts in Distributed Development”, (PI) - \$6,600; 06/01/2010 – 05/31/2011.
- 2009 IBM JAZZ Innovation Grant (co-PI), CMU - \$44,000; 06/01/2008 – 05/31/2009.

OTHER FUNDING

- 2010 NSF, “CCF: Student Volunteer Scholarship: Broadening Participation through Student Volunteers at FSE”, (PI) - \$13,170; period: 09/01/2010 – 08/31/2012.
- 2010 NSF and ACM SIGSOFT travel funds to attend Software Engineering Educators’ Symposium
- 2009 CRA-W scholarship to attend New Faculty Mentoring workshop.
- 2006 UMBC NSF ADVANCE Scholarship to attend Faculty Horizons, a workshop for aspiring STEM (Science, Technology, Engineering, and Mathematics) faculty.
- 2006, 2004 UCI, Ada Byron Research Center for diversity in computing and information technology, student scholarship for Grace Hopper Celebration of Women in Computing (GHC).

NOTABLE AWARDS

- 2012 Student Choice Outstanding Teaching Award (Upper Level).
- 2011 Distinguished paper award at Empirical Software Engineering and Measurement.
- 2007 Nominated for best paper award at Automated Software Engineering.
- 2007 UC Irvine Donald Bren School of Information and Computer Sciences Dissertation Fellowship Recipient.
- 2003 Donald Bren School of Information and Computer Sciences Summer Scholarship for Outstanding Students, University of California, Irvine.
- 2000 Donald Bren School of Information and Computer Sciences Fellowship, University of California, Irvine.

REFEREED JOURNAL PUBLICATIONS

- J.6 S. K. Kuttal, A. Sarma, and G. Rothermel, *On the Benefits of Providing Versioning Support for End Users: an Empirical Study*, ACM Transactions on Computer-Human Interactions, 2014, 21(2): 9.
- J.5 K. T. Stolee, S. Elbaum, and A. Sarma, *Discovering How End-User Programmers and their Communities use Public Repositories*, Information and Software Technology, 2013, 55(7): 1289-1303.

- J.4 A. Sarma, D. F. Redmiles, and A. van der Hoek, *Palantir: Early Detection of Development Conflicts Arising from Parallel Code Changes*. ACM Transactions on Software Engineering, 2012, 38(4): 889-908.
- J.3 A. Sarma, D. F. Redmiles, and A. van der Hoek, *Categorizing the Spectrum of Coordination Technology*, IEEE Computer, June 2010, 43(6): 61-67.
- J.2 B. Al-Ani, D. Redmiles, A. van der Hoek, M. Alvim, I. Almeida da Silva, N. Mangano, E. Trainer, and A. Sarma, *Continuous Coordination within Software Engineering Teams: Concepts and Tool Support*, Journal of Computer Science and Engineering in Arabic: special issue on Software Engineering, 2008, 1(3): 10-33.
- J.1 D. Redmiles, A. van der Hoek, B. Al-Ani, T. Hildenbrand, S. Quirk, A. Sarma, R. Silveira Silva Filho, C. de Souza, and E. Trainer, *Continuous Coordination: A New Paradigm to Support Globally Distributed Software Development Projects*, In Wirtschaftsinformatik, 2007, 49 (Special Issue): S28-S38.

JOURNAL PUBLICATIONS UNDER REVIEW

- S.3 Jose Ricardo Da Silva Junior, Esteban Clua, Leonardo Murta and Anita Sarma, *Dominoes: Exploratory Data Analysis of Software Repositories in Apache Derby*, International Journal of Software Engineering & Knowledge Engineering.
- S.2 R. Leano and A. Sarma, *Is this conflict complex? Predicting conflict severity by using project history*, Information and Software Technology Journal.
- S.1 A. Sarma and J. Wang, *Tesseract: Multi-Perspective Visual Exploration of Socio-Technical Relationships*, IEEE Transactions on Software Engineering.

BOOK CHAPTERS

- B.1 A. Sarma, B. Al-Ani, E. Trainer, R.S. Silva Filho, I. da Silva, D. Redmiles, A. van der Hoek, *Continuous Coordination Tools and their Evaluation*, book chapter for Collaborative Software Engineering (CoSE), Editors: A. Finkelstein, J.Grundy, A, van der Hoek, I. Mistrik, and Jim Whitehead, Springer-Verlag/Computer Science Editorial, Chapter 8, 2010, pp. 153-178.

REFEREED CONFERENCE PUBLICATIONS

- C.18 J. R. da Silva Junior, E. Clua, L. Murta, and A. Sarma, *Exploratory Data Analysis of Software Repositories via GPU Processing*, International Conference on Software Engineering and Knowledge Engineering, July 2014, pp. 495-500. [Acceptance rate: 29%]
- C.17 A. Sarma, J. Branchaud, M. Dwyer, S. Person, and N. Rungta, *Development Context Driven Change Awareness and Analysis Framework*, International Conference on Software Engineering: New Ideas and Emerging Results Track, May 2014, pp. 404-407. [Acceptance rate: 24%]
- C.16 P. Wagstrom, C. Jergensen, and A. Sarma, *A Network of Rails: A Graph Dataset of Ruby on Rails and Associated Projects*, Conference on Mining Software Repositories, June 2013, pp. 229-232. [Acceptance rate: 23%]
- C.15 S. K. Kuttal, A. Sarma, and G. Rothermel, *Predator Behavior in the Wild Web World of Bugs: An Information Foraging Theory Perspective*, Symposium on Visual Languages and Human-Centric Computing, September 2013, pp. 183-184. [Acceptance rate: 30%]
- C.14 B. K. Kasi and A. Sarma, *Cassandra: Proactive Conflict Minimization through Optimized Task Scheduling*, International Conference on Software Engineering, June 2013, pp. 732-741. [Acceptance rate: 18.5%]

- C.13 S. K. Kuttal, A. Sarma, and G. Rothermel, *Debugging Support for End-User Mashup Programming*, SIGCHI Conference on Human Factors in Computing Systems, 2013, pp. 1609-1618. [Acceptance rate: 20%]
- C.12 S. K. Kuttal, A. Sarma, and G. Rothermel, *History Repeats Itself More Easily When You Log It: Versioning for Mashup*, Symposium on Visual Languages and Human-Centric Computing, September 2011, pp 69-72. [Acceptance rate: 33%]
- C.11 K. T Stolee, S. Elbaum, and A. Sarma, *End-User Programmers and their Communities: An Artifact-based Analysis*, International Symposium on Empirical Software Engineering and Measurement, September 2011, pp. 147-156. [Distinguished Paper Award] [Acceptance rate: 31%]
- C.10 C. Jergensen, A. Sarma, and P. Wagstrom, *The Onion Patch: Migration in Open Source Ecosystems*, Joint meeting of the European Software Engineering Conference and Symposium on the Foundations of Software Engineering, September 2011, pp 70-80. [Acceptance rate: 16.7%]
- C.9 S. K. Kuttal, A. Sarma, A. Swearngin, and G. Rothermel, *Versioning for Mashups – An Exploratory Study*, International Symposium on End-User Development, June 2011, pp. 25-41. [Acceptance rate: 27%]
- C.8 L. Dabbish, P. Wagstrom, A. Sarma, and J. Herbsleb, *Coordination in Innovative Design and Engineering: Observations from a Lunar Robotics Project*. Conference on Supporting Group Work, November 2010, pp. 225-234. [Acceptance rate: 23%]
- C.7 A. Sarma, L. Maccherone, P. Wagstrom, and J. Herbsleb, *Tesseract: Interactive Visual Exploration of Socio-Technical Relationships in Software Development*, International Conference on Software Engineering, May 2009, pp. 23-33. [Acceptance rate: 12%]
- C.6 A. Sarma, D. Redmiles, and A. van der Hoek, *Empirical Evidence of the Benefits of Workspace Awareness in Software Configuration Management*, SIGSOFT International Symposium on the Foundations of Software Engineering, November 2008, pp. 113-123. [Acceptance rate: 20%]
- C.5 A. Sarma, G. Bortis, and A. van der Hoek, *Towards Supporting Awareness of Indirect Conflicts across Software Configuration Management Workspaces*, International Conference on Automated Software Engineering, November 2007, pp. 94-103. [Nominated for Best Paper Award] [Acceptance rate: 12%]
- C.4 A. Sarma, D. Redmiles, and A. van der Hoek, *A Comprehensive Evaluation of Workspace Awareness in Software Configuration Management Systems*, Symposium on Visual Languages and Human-Centric Computing, September 2007, pp. 23-26. [Acceptance rate: 30%]
- C.3 A. Sarma and A. van der Hoek, *Towards Awareness in the Large*, International Conference on Global Software Engineering, October 2006, pp. 127-131. [Acceptance rate: 30%]
- C.2 A. Sarma and A. van der Hoek, *Visualizing Parallel Workspace Activities*, IASTED International Conference on Software Engineering and Applications, November 2003, pp. 435-440. [Acceptance rate: not known]
- C.1 A. Sarma, Z. Noroozi, and A. van der Hoek, *Palantir: Raising Awareness among Configuration Management Workspaces*, Twenty-fifth International Conference on Software Engineering, May 2003, pp. 444-454. [Acceptance rate: 12.9%]

CONFERENCE PAPERS UNDER REVIEW

- S.2 X. Chen, L. Dabbish, and A. Sarma “*Impression Formation through Visual Resume*”, International Conference on Software Engineering
- S.1 S. Kuttal, A. Sarma, and G. Rothermel, “*Understanding the What’s and How’s of Program Variations*”, SIGCHI Conference on Human Factors in Computing Systems

REFEREED ARCHIVAL WORKSHOPS

- W.14 K. Hart and A. Sarma, *Perceptions of Answer Quality in An Online Technical Question and Answer Forum*, ICSE Workshop on Cooperative and Human Aspects of Software Engineering May 2014, 103-106.
- W.13 J. C. Georgas and A. Sarma, *STCML: An Extensible XML-based Language for Socio-Technical Modeling*, ICSE Workshop on Cooperative and Human Aspects of Software Engineering, May 2011, pp. 61-64.
- W.12 J. Wang and A. Sarma, “*Which Bug Should I Fix: Helping New Developers Onboard A New Project*”, ICSE Workshop on Cooperative and Human Aspects of Software Engineering, May 2011, pp. 76-79.
- W.11 L. Maccherone, A.Sarma, P. Wagstrom, and J. Herbsleb, *Tesseract: Interactive Environment for Exploration of Project Relationships*, Formal Research Demonstration at International Conference on Software Engineering, May 2009, Companion Volume, pp. 405-406.
- W.10 B. Al-Ani, E. Trainer, R. Ripley, A. Sarma, A. van der Hoek, and David Redmiles, *Continuous Coordination within the Context of Cooperative and Human Aspects of Software Engineering*, ICSE Workshop on Cooperative and Human Aspects of Software Engineering, May 2008, pp. 1-4.
- W.9 I. da Silva, M. Alvim, R. Ripley, A. Sarma, C. Werner, and A. van der Hoek, *Designing Software Cockpits for Coordinating Distributed Software Development*, Workshop on Measurement-based Cockpits for Distributed Software and Systems Engineering Projects, August 2007, pp. 14-18.
- W.8 R. Ripley, A. Sarma, and A. van der Hoek, *A Visualization for Software Project Awareness and Evolution*, Fourth International Workshop on Visualizing Software for Understanding and Analysis, June 2007, pp. 137-144.
- W.7 B. Al-Ani, A. Sarma, G. Bortis, I. Almeida da Silva, E. Trainer, A. van der Hoek, and D. Redmiles, *Continuous Coordination (CC): A New Collaboration Paradigm*, CSCW Workshop on Supporting the Social Side of Large Scale Software Development, November 2006, pp. 69-72.
- W.6 A. Sarma, A. van der Hoek, and L-T, Cheng, *A Need-Based Collaboration Classification Framework*, Eclipse as a Vehicle for CSCW Research Workshop, November 2004, pp. 16-20.
- W.5 R. Ripley, A. Sarma, and A. van der Hoek, *Workspace Awareness in Application Development*, Eclipse Technology eXchange Workshop, October 2004, pp. 17-21.
- W.4 A. Sarma and A. van der Hoek, *A Conflict Detected Earlier is a Conflict Resolved Easier*, Fourth Workshop on Open Source Software Engineering, May 2004, pp. 82-86.
- W.3 A. van der Hoek, D. Redmiles, P. Dourish, A. Sarma, R. S. Filho, and C. de Souza, *Continuous Coordination: A New Paradigm for Collaborative Software Engineering Tools*, Workshop on Directions in Software Engineering Environments, May 2004, pp. 29-36.
- W.2 A. Sarma and A. van der Hoek, *Palantir: Coordinating Distributed Workspaces*, Workshop on Cooperative Support for Distributed Software Engineering Processes, August 2002, pp. 1093-1097.
- W.1 A. Sarma and A. van der Hoek, *Palantir: Increasing Awareness in Distributed Software Development*, Second ICSE Workshop on Global Software Development, May 2002, pp. 28-32.

REFEREED NONARCHIVAL WORKSHOPS AND SYMPOSIA

- O.16 R. Leano, B. Kasi, and A. Sarma, “*Recommending Task Context: Automation meets Crowd*”, FSE Workshop on Context in Software Development collocated, November 2014.
- O.15 L. Dabbish, P. Wagstrom, and A. Sarma, *Cross-Team Knowledge Exchange in an Interdisciplinary Engineering Project*, Academy of Management Annual Meeting, August 2010.

- O.14 L. Dabbish, J. Herbsleb, A. Sarma, and P. Wagstrom, *Supporting Coordination of Interdependent Work: A Constraint Network Representation*, Academy of Management Annual Meeting, August 2009.
- O.13 L. Dabbish, J. Herbsleb, A. Sarma, and P. Wagstrom, *A Network Representation of Dependencies in Engineering*, Interdisciplinary Network of Group Researchers (InGROUP 2009), July 2009.
- O.12 A. Sarma, J. Georgas, and J. Herbsleb, *Architectural Congruence: Toward Exploring the Software Development Process through an Architectural Perspective*, ICSE Workshop on Socio-Technical Congruence, May 2009.
- O.11 J. Herbsleb, L. Dabbish, P. Wagstrom, A. Sarma, *Supporting Coordination of Work*, Paper in Human Computer Interaction Consortium (HCIC), February 2009.
- O.10 P. Wagstrom, L. Dabbish, A. Sarma, and J. Herbsleb, *Understanding the Collaboration Needs of a Developing Distributed Team*, CSCW Workshop on Supporting Distributed Team Work, November 2008.
- O.9 J. Herbsleb, L. Dabbish, P. Wagstrom, and A. Sarma, *Theory and Analysis of Closely-Coupled Production Work*, CSCW Workshop on Supporting Distributed Team Work, November 2008.
- O.8 A. Sarma and J. Herbsleb, *Exploring Interrelationships among Project Entities to Support Coordination in Distributed Teams*, CSCW Workshop on Supporting Distributed Team Work, November 2008.
- O.7 A. Sarma, J. Herbsleb, A. Mockus, and M. Cataldo, *Using Distributed Constraint Satisfaction to Build a Theory of Congruence*, ICSE Workshop on Socio-Technical Congruence, May 2008.
- O.6 A. Sarma and J. Herbsleb, *Using Development Experience to Calculate Congruence*, ICSE Workshop on Socio-Technical Congruence, May 2008.
- O.5 A. Sarma, J. Herbsleb, and A. van der Hoek, *Challenges in Measuring, Understanding, and Achieving Social-Technical Congruence*, ICSE Workshop on Socio-Technical Congruence, May 2008.
- O.4 A. Sarma, *Palantir: Coordinating Distributed Software Development through Awareness*, Invited student paper in Human Computer Interaction Consortium (HCIC), January 2006.
- O.3 D. Redmiles, A. van der Hoek, A. Sarma, C. de Souza, E. Trainer, S. Quirk, and R. de Paula, *Unifying Formal and Informal Coordination through Continuous Coordination*, Paper in Human Computer Interaction Consortium (HCIC), January 2006.
- O.2 A. Sarma, *Contextualized Awareness: A Lynchpin of Software Development*, CSCW Workshop on Awareness in Activity-Centric Groupware Design, November 2006.
- O.1 A. Sarma, *Configuration Management Workspace Awareness for Distributed Software Development*, Doctoral Symposium at the European Software Engineering Conference together with ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE), September 2003.

TECHNICAL REPORTS

- T.6 B.K. Kasi and A. Sarma, *A Degree of Conflict Model for Workspace Awareness*, Technical Report, TR-UNL-CSE-2011-0002, University of Nebraska, Lincoln, February 2011.
- T.5 A. Sarma, G. Bortis, and A. van der Hoek, *Cross-Workspace Impact Awareness for Early Detection of API-induced Indirect Conflicts in Configuration Management*. Technical Report, UCI-ISR-06-17, University of California, Irvine, Institute for Software Research, December 2006.
- T.4 R. Ripley, A. Sarma, and A. van der Hoek, *Using Visualizations to Analyze Workspace Activity and Discern Software Project Evolution*, Technical Report, UCI-ISR-06-1, University of California, Irvine, Institute for Software Research, January 2006.

- T.3 A. Sarma, *A Survey of Collaborative Tools in Software Development*, Technical Report, UCI-ISR-05-3, University of California, Irvine, Institute for Software Research, March 2005.
- T.2 A. Sarma and A. van der Hoek, *A Need Hierarchy for Team*, Technical Report, UCI-ISR-04-9, University of California, Irvine, Institute for Software Research, October 2004.
- T.1 A. Sarma and A. van der Hoek, *Visualizing Parallel Workspace Activities*, Technical Report, UCI-ISR-02-8, University of California, Irvine, Institute for Software Research, Jan. 2003.

INVITED PRESENTATIONS

- P.19 June 2014, Dagstuhl on Software Analytics, *Dagstuhl*, Germany (15 min)
- P.18 May 2014, *Institute for Software Research* at University of California, Irvine CA, USA (20 min)
- P.17 March 2014, *North Carolina State University*, Raleigh, NC, USA (50 min)
- P.16 March 2014, *University of Illinois*, Chicago, IL, USA (50 min)
- P.15 January 2014, *University of Southern California*, Los Angeles, CA, USA (50 min)
- P.14 November 2010, *University of New Mexico*, Albuquerque, NM, USA (50 min)
- P.13 July 2010, *Microsoft Research Faculty Summit*, Redmond, WA, USA (15 min)
- P.12 March 2010, *Mining Software Archives*, Ascona, Switzerland (20 min)
- P.11 October 2009, *IBM TJ Watson Labs*, Hawthorne, NY, USA (50 min)
- P.10 July 2009, *University of Toronto*, Toronto, Ontario, Canada (50 min)
- P.9 May 2009, *University of Victoria*, Victoria, BC, Canada (50 min)
- P.8 February 2009, *North Carolina State University*, Raleigh, NC, USA (50 min)
- P.7 April 2007, *University of Wisconsin*, Milwaukee, WI, USA (50 min)
- P.6 February 2007, *Microsoft Research*, Redmond, WA, USA (50 min)
- P.5 July 2006, *University of Maryland*, Baltimore County, MD, USA (50 min)
- P.4 January 2006, *University of Colorado at Boulder*, Boulder, CO, USA (50 min)
- P.3 August 2004, *IBM Research Labs, Collaborative User Experience Group*, Cambridge, MA, USA (20 min)
- P.2 March 2004, *Federal University of Rio de Janeiro*, Rio de Janeiro, Brazil (20 min)
- P.1 January 2004, *Association for Configuration and Data Management*, Anaheim, CA, USA (50 min)

UNDERGRADUATE COURSES TAUGHT

- CSCE 496 Coordination in Global Software Development, Fall 2009
- CSCE 378 Human Computer Interaction, Spring 2010, 2011, 2012, 2013
- CSCE 361 Software Engineering, Fall 2011, 2012, 2013

GRADUATE COURSES TAUGHT

- CSCE896 Coordination in Global Software Development, Fall 2009
- CSCE990 Empirical Software Engineering, Fall 2010, 2013; Spring 2012

GRADUATE STUDENTS SUPERVISED

Thesis Committee Chair

Hamed Heydari	UNL, PhD (expected 2019)
Kevin North	UNL, MS (expected 2016) – co chair
Rafael Leano	UNL, PhD (expected 2016)
Bakhtiar Khan Kasi	UNL, PhD (expected 2015)
Josh Branchaud	UNL, MS (expected 2014)
Sandeep Kuttal	UNL, PhD (graduated 2014) – co chair
Corey Jergensen	UNL, MS (graduated 2013)
Jianguo Wang	UNL, MS (graduated 2012)

Thesis Committee

Supat Rattanasuksun	UNL, PhD (expected 2015)
Zhongyin Zhang	UNL, MS (graduated 2014)
Andrew Mittleider	UNL, MS (graduated 2014)
Chris Assi	UNL, MS (graduated 2012)
Amanda Swearngin	UNL, MS (graduated 2012)
Si Huang	UNL, MS (graduated 2010)
Katie Stolee	UNL, MS (graduated 2010)

UNDERGRADUATE STUDENTS MENTORED

Zhendong Wang	UNL, REU* funded, expected 2015
David Montz	UNL, REU funded, expected 2015
Hardik Patel	UNL, graduated 2014
Caleb Larsen	UNL, REU funded, graduated 2014
Azrina Azmi	UNL, graduated 2013
James Sukup	UNL, UCARE** funded, graduated 2012
Brad Hoff	UNL, graduated 2012
Josh Branchaud	UNL, UCARE funded, graduated 2011
Corey Jergensen	UNL, graduated 2010

* REU: Research Experience for Undergraduates sponsored by NSF

** UCARE: Undergraduate Creative Activities and Research Experiences program at UNL

PROFESSIONAL SERVICE

Editorial Board and Conference Organization

- Workshop Chair: Automated Software Engineering (ASE): 2015
- Guest editor, Special Issue on *Software Engineering from a Social Network Perspective*, Springer Open Journal of Internet Services and Applications (JISA)
- Formal Demonstration Chair: International Conference on Software Engineering (ICSE): 2014
- Student Volunteer Chair: Foundations of Software Engineering (FSE): 2010

Workshop organizer

- The Future of Collaborative Software Development at CSCW – Feb 12, 2012
- Workshop on Supporting Distributed Team Work at CSCW – Nov 9, 2008
- Workshop for SCALE (Social Coordination Across Large Environments) group – Sept. 6-7, 2012

Program Committee member¹

- Automated Software Engineering (ASE): 2011, 2012, 2015
- International Conference on Software Engineering (ICSE): 2015 (Review Committee)
- International Conference on Software Engineering, Research Demonstration track (ICSE): 2015
- India Software Engineering Conference (ISEC): 2014, 2015

¹ Workshops where I was a program committee member are listed at the end and ordered chronologically

- International Conference on Global Software Engineering (ICGSE): 2007, 2013, 2014
- International Conference on Software Engineering, New Ideas and Emerging Results (NIER) track: 2013
- International Symposium on End-User Development (ISEUD): 2013
- Student Research Competition for ICSE: 2012
- International Conference on Software Engineering (ICSE): 2011
- Conference on Supporting Group Work (GROUP): 2010
- Foundations of Software Engineering, Research Demonstration track (FSE): 2010
- Conference on Mining Software Repository (MSR): 2010
- IASTED International Conference on Software Engineering and Applications (SEA): 2003
- Mini track on Concepts, Methods, and Tools for Collaborative IS Development at HICCS: 2009
- Workshop on Crowd Sourcing in Software Engineering (CSI-SE): 2014
- Workshop on Cooperative and Human Aspects of Software Engineering (CHASE) at ICSE: 2008, 2009, 2011, 2012, 2013, 2014
- Workshop on Data Analysis Patterns in Software Engineering at ICSE: 2013
- Workshop on User Evaluations for Software Engineering Researchers (USER) at ICSE: 2013
- Workshop on Socio-Technical Congruence (STC) at ICSE: 2008, 2009
- Workshop on Infrastructure for Research in Collaborative Software Engineering at FSE 2008
- Workshop on Knowledge Engineering in GSD at ICGSE: 2009
- Workshop on Future of Collaborative Software Development at CSCW: 2012

Journal Reviews

- Journal of Empirical Software Engineering (JESE): 2014
- IEEE Transactions on Software Engineering (TSE): 2009, 2010, 2011, 2012, 2013, 2014
- Communications of the ACM (CACM) – 2012
- ACM Transactions on Computer Human Interactions (TOCHI) – 2012
- ACM Transactions on Software Engineering and Methodology (TOSEM): 2011
- Journal on Empirical Software Engineering (ESE): 2008, 2009, 2010
- User Modeling and User-Adapted Interaction: The Journal of Personalization Research, Springer Verlag publishing: 2010
- IEEE Transactions on Software Engineering, Special issue on Socio-Technical dependency (TSE): 2009
- Software: Practice and Experience, Wiley Journal: 2009
- IEEE Software, Special Issue on Cooperative and Human Aspects of Software Engineering: 2009
- The Computer Supported Cooperative Work Journal (JCSCW): 2008
- IEEE Software, special issue on Data Mining: 2008
- Journal of Software Maintenance and Evolution: Research and Practice: 2008
- International Journal of Human-Computer Studies: 2007
- Journal of Zhejiang University Science A – Applied Physics and Engineering: 2007

Additional Conference Reviews

- Computer Human Interaction (CHI): 2008, 2009, 2010
- Computer Supported Cooperative Work (CSCW): 2008, 2010, 2011, 2012
- Book Chapter in Collaborative Software Engineering: 2008

NSF Reviews

- NSF panel reviewer: 2012, 2013, 2014
- NSF ad hoc reviewer: 2010

Other

- Executive committee member of End Users Shaping Effective Software (EUSES) consortium, which includes eight universities and two industrial collaborators

OUTREACH ACTIVITIES

Panelists

- New Faculty Symposium, International Conference on Software Engineering (ICSE), May 2013
- Graduate Student Research Symposium, University of California, Irvine, June 2006
- Graduate School Information Panel, Women in Computer Science (WICS), University of California, Irvine, April 2006

CS Summer Camp Instructor

- Big Red Summer Camp on “3-D Animation and Virtual World Creation” as part of Nebraska 4H Youth Development Program, June 12-17, 2011
- COSMOS (California State Summer School for Mathematics & Science, UCI); “Cluster 5 - Introduction to Computer Science”, June 20-25 2005

Program Committee Member

- Program Workshop and Panel committee for Grace Hopper (Women in Computer Science) Conference, 2012

Outreach Encouraging Students to Pursue CS Careers

- Designed and guided the implementation of *Kinect* – an application that allows users to paint (Jackson Pollock-style) by using gesture-detection software implemented through Microsoft Kinect. The objective of the application is to make science and art interesting to middle- and high-school students. The application was used as an interactive exhibit at the Sheldon Museum – a nationally accredited museum in Nebraska (June 2012), where it was very popular with youth and children. Since then, our department has showcased the application during recruitment activities. It has also been presented at the MINK WIC (Missouri, Iowa, Nebraska, Kansas Women In Computing) event held in Kansas City (2013), at the UNL Middle School College Access outreach program (2014), and at the TEDxYouth program geared towards high school students in Lincoln. The application has also been requested to be showcased at the Walton School Art Show in Wakefield, Massachusetts.
- As part of the BRAID (Building Recruiting And Inclusion for Diversity) program, a consortium of fifteen universities to increase diversity in Computer Science, I am in charge of guiding a group of fifteen CS students to attend the Grace Hopper Conference, October 2014.
- Visited middle schools in Lincoln area as part of NCWIT (National Center for Women in Information Technology) GEM (Girl Empowerment and Mentoring) program to encourage middle school students to pursue careers in computer science, February 2012.
- Judged essays as part of NCWIT GEM program, where middle school students are paired with undergraduate students who mentor the (middle school) students in writing essays on a technology related topic and the winner is provided a scholarship for attending the CSE department – March 2011, 2012.
- Participated in MINK - WIC (Minnesota, Indiana, Nebraska, Kansas - Women in Computing) career fair, Kansas City, MI, October 2011.
- Participated in “Ask a Scientist Night” to encourage middle school students to pursue careers in computer science at Irvine, October 2006, 2007.
- Invited talk at Brea Olinda High School to encourage high-school students to pursue career in computer science at Brea, CA, USA, February 2006.

DEPARTMENT SERVICE

2014-Present	Diversity committee
2014- Present	Graduate Admissions committee
2013 – 2014	CSE Grad Day recruitment event - ESQuaRED faculty lead
2011 – Present	Graduate Recruiting and Outreach committee
2012	Search committee on <i>Management of Big Data</i>
2012	Search committee on <i>Computational Nanotechnology</i>

2012 – 2013 CSE Colloquium chair
2012 – 2014 Graduate CS Curriculum committee
2010 Panel member for a NASA funded workshop for undergraduates on Careers in Research
2010 – 2012 CSE graduate recruitment day presentation on Software Engineering topics
2009 – 2012 Graduate Admissions committee

PROFESSIONAL AFFILIATIONS

2011 – Present End Users Shaping Effective Software (EUSES) consortium
2002 – Present Member of Association for Computing Machinery (ACM)
2002 – Present Association for Computing Machinery Special Interest Group on Software Engineering (ACM SIGSOFT)
2001 – Present Institute of Electrical and Electronics Engineers (IEEE)