

Anita Sarma

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RESEARCH AREAS: human factors in software engineering; human computer interaction, end-user programming; distributed software development

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

- 2015 – present Associate Professor
Oregon State University
School of Electrical Engineering and Computer Science
- 2015 – present Adjunct Associate Professor
University of Nebraska, Lincoln
Department of Computer Science and Engineering
- 2009 – 2015 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

2020 NSF: REU Supplemental award to “CHS: SHF: SMALL: Collaborative Research: Scaffolding skill acquisition to onboard OSS ecosystems” **(PI)** - \$16,000.

2020 NSF: REU Supplemental award to “CHS: Large: Collaborative Research: Gender-Inclusive Open Source through Gender-Inclusive Tools” **(PI)** - \$32,000.

2019 NSF: “CHS: Large: Collaborative Research: Gender-Inclusive Open Source through Gender-Inclusive Tools” **(PI)** - \$1,400,000; 09/01/2019 – 08/31/23.

2018 NSF: “CHS: SHF: SMALL: Collaborative Research: Scaffolding skill acquisition to onboard OSS ecosystems”, **(PI)** - \$250,000; 09/01/2018 – 08/31/21.

2018 NSF: REU Supplemental award to “HCC: Large: Collaborative Research: Variations to Support Exploratory Programming”, **(PI)** - \$16,000; 05/08/2018.

2018 NSF: REU Supplemental award to “SHF: CAREER: Conflict Minimization in Distributed Software Development”, **(PI)** - \$16,000; 04/23/2018.

2017 NSF: REU Supplemental award to “SHF: CAREER: Conflict Minimization in Distributed Software Development”, **(PI)** - \$16,000; 05/02/2017.

2016 NSF: REU Supplemental award to “HCC: Large: Collaborative Research: Variations to Support Exploratory Programming”, **(PI)** - \$16,000; 06/20/2016.

2016 NSF, "CHS: VL/HCC 2016 Graduate Consortium", **(PI)** - \$28,810; 03/01/2016 – 02/28/2017.

2015 NSF, "CHS: VL/HCC 2015 Graduate Consortium", **(PI)** - \$26,034; 07/01/2015 – 06/20/2016.

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, "CCF: Student Volunteer Scholarship: Broadening Participation through Student Volunteers at FSE", **(PI)** - \$13,170; period: 09/01/2010 – 08/31/2011.

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

- 2016 NSF: “HCC: WORKSHOP: VL/HCC 2016 Graduate Consortium”, (PI) - \$28,810; 07/01/2016 – 06/30/2017.
- 2015 NSF: “HCC: WORKSHOP: VL/HCC 2015 Graduate Consortium”, (PI) - \$26,034; 07/01/2015 – 06/30/2016.
- 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

- 2020 ACM SIGSOFT Distinguished Paper award (ICSE)
- 2020 Honorable Mention at SIGCHI Conf. on Human Factors in Computing Systems (CHI)
- 2017 IEEE TCSE Distinguished Paper Award at International Conference on Software Maintenance and Evolution (ICSME)
- 2017 Honorable Mention at SIGCHI Conf. on Human Factors in Computing Systems (CHI)
- 2016 Best paper award at IEEE International Conference on Global Software Engineering (ICGSE)
- 2016 Best paper award at SIGCHI Conf. on Human Factors in Computing Systems (CHI)
- 2015 Distinguished Reviewer award for ICSE 2015
- 2012 Student Choice Outstanding Teaching Award (Upper Level).
- 2011 Distinguished paper award at Empirical Software Engineering and Measurement (ESEM).
- 2007 Nominated for best paper award at Automated Software Engineering (ASE) .
- 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.16 J. R. da Silva Junior, D. P. Campagna, E. Clua, A. Sarma, and L. Murta, *Dominoes: An Interactive Exploratory Data Analysis tool for Software Relationships*, IEEE Transactions on Software Engineering, 2020, 13(9).
- J.15 C. Brindescu, I. Ahmed, C. Jensen, and A. Sarma, *An Empirical Investigation into Merge Conflicts and their Effect on Software Quality*, Empirical Software Engineering, 2020, 25(1): pages 562-590.
- J.14 S. H. Padala, C. J. Mendez, L. F. Dias, I. Steinmacher, Z. Stein-Hanson, C. Hilderbrand, A. Horvath, C. Hill, L. Simpson, M. Burnett, M. Gerosa, and A. Sarma, *How Gender-biased Tools Shape Newcomer Experiences in OSS Projects*, IEEE Transactions on Software Engineering, 2020.
- J.13 C. d. S. Costa, J. J. Figueiredo, J. F. Pimentel, A. Sarma, and L. G. P. Murta, *Recommending Participants for Collaborative Merge Sessions*, IEEE Transactions on Software Engineering, 2019.
- J.12 N. Nelson, C. Brindescu, S. McKee, A. Sarma, and D. Dig, *The Life-Cycle of Merge Conflicts: Processes, Barriers, and Strategies*, Empirical Software Engineering Journal (Springer), 2019, 24(5): pages 2863-2906.

- J.11 S. K. Kuttal, M. Burnett, A. Sarma, G. Rothermel, I. Koeppel, and B. Shepherd, *How End-User Programmers Debug Visual Web-Based Programs: An Information Foraging Theory Perspective*, Journal of Computer Language, 2019, 53: pages 22-37.
- J.10 S. K. Kuttal, A. Sarma, G. Rothermel, and Z. Wang, *What Happened to My Application? Helping End Users Comprehend Evolution through Variation Management*, Information and Software Technology Journal, Elsevier, 2018, 103: pages 55-74.
- J.9 S. Balali, I. Steinmacher, U. Annamalai, A. Sarma, and M. Gerosa, *Newcomers' Barriers... Is That All? An Analysis of Mentors' and Newcomers' Barriers in OSS*, Journal of Computer Supported Cooperative Work (CSCW), 2018, 27: pages 55-74.
- J.8 M. A. Gerosa, D. Redmiles, P. Bjørn, and A. Sarma, *Thematic series on software engineering from a social network perspective*, Journal of Internet Services and Applications, 2015, 6(1): page 23.
- J.7 J. R. da Silva Junior, E. Clua, L. Murta, and A. Sarma, *Dominoes, Exploratory Data Analysis of Software Repositories in Apache Derby*, International Journal of Software Engineering & Knowledge Engineering, 2015, 25(1): pages 51-68.
- 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): Article 9, pages 1-43.
- 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): pages 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*, IEEE Transactions on Software Engineering, 2012, 38(4): pages 889-908.
- J.3 A. Sarma, D. F. Redmiles, and A. van der Hoek, *Categorizing the Spectrum of Coordination Technology*, IEEE Computer, 2010, 43(6): pages 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): pages 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): pages 28-38.

BOOK CHAPTERS

- BC.2 A. Sarma, *Coordination Technologies*, In: Cha S., Taylor R., Kang K. (eds) Handbook of Software Engineering. Springer, Cham, 2019, pages 375-398.
- BC.1 A. Sarma, B. Al-Ani, E. Trainer, R.S. Silva Filho, I. da Silva, D. Redmiles, and 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. Mistrík, and Jim Whitehead, Springer-Verlag/Computer Science Editorial, Chapter 8, 2010, pages 153-178.

REFEREED CONFERENCE PUBLICATIONS

- C.68 U. A. Mannan, I. Ahmed, C. Jenson, and A. Sarma, *On the Relationship Between Design Discussions and Design Quality: A Case Study of Apache Projects*, ACM 28th SIGSOFT International Symposium on Foundations of Software Engineering (FSE), November 2020.

- C.67 B. Trinkenreich, M. Guizani, I. S. Wiese, A. Sarma, and I. Steinmacher, *Hidden Figures: Roles and Pathways of Successful OSS Contributors*, ACM 23rd Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), October 2020 (to appear).
- C.66 S. Balali, U. Annamalai, S. Padala, B. Trinkenreich, M. Gerosa, I. Steinmacher, and A. Sarma, *Recommending Tasks to Newcomers in OSS Projects: How Do Mentors Handle It?*, 16th International Symposium on Open Collaboration (OpenSym), August 2020.
- C.65 M. Adeli, N. Nelson, S. Chattopadhyay, H. Coffey, A. Henley, and A. Sarma, *Supporting Code Comprehension via Annotations: Right Information at the Right Time and Place*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC Dunedin), August 2020.
- C.64 C. Brindescu, I. Ahmed, R. Leano, and A. Sarma, *Planning for Untangling: Predicting the Difficulty of Merge Conflicts*, ACM/IEEE International Conference on Software Engineering, May 2020.
- C.63 C. Hilderbrand, C. Perdriau, L. Letaw, J. Emard, Z. Steine-Hanson, M. Burnett, and A. Sarma, *Engineering Gender-Inclusivity into Software: Ten Teams' Tales from the Trenches*, ACM/IEEE 42nd International Conference on Software Engineering (ICSE), May 2020.
- C.62 S. Chattopadhyay, N. Nelson, A. Au, N. Morales, C. Sanchez, R. Pandita, and A. Sarma, *A Tale from the Trenches: Cognitive Biases and Software Development*, ACM/IEEE 42nd International Conference on Software Engineering (ICSE), May 2020. [Distinguished Paper Award]
- C.61 S. Chattopadhyay, I. Prasad, A. Z. Henley, A. Sarma, and T. Barik, *What's Wrong with Computational Notebooks? Pain Points, Needs, and Design Opportunities*, ACM Conference on Human Factors in Computing Systems, CHI 2020, pages 1-12. [Honorable Mention]
- C.60 H. Qiu, Y. L. Li, H. S. Padala, A. Sarma, and B. Vasilescu, *The Signals that Potential Contributors Look for When Choosing Open-source Projects*, ACM Proceedings on Human-Computer Interaction (PACMHCI 3/CSCW), November 2019, pages 122:1-122:29.
- C.59 C. Mendez, L. Letaw, M. Burnett, S. Stumpf, A. Sarma, and C. Hilderbrand, *From GenderMag to InclusiveMag: An Inclusive Design Meta-Method*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), October 2019, pages 97-106.
- C.58 S. Chattopadhyay, N. Nelson, Y. R. Gonzalez, A. Leon, R. Pandita, and A. Sarma, *Latent Patterns in Activities: A Field Study of How Developers Manage Context*, ACM/IEEE 41st International Conference on Software Engineering, May 2019, pages 373-383.
- C.57 U. A. Mannan, I. Ahmed, and A. Sarma, *Towards Understanding Code Readability and Its impact on Design Quality*, ACM 4th International Workshop on NLP for Software Engineering (NL4SE), November 2018, pages 18-21.
- C.56 C. Mendez, Z. Steine-Hanson, A. Oleson, A. Horvath, C. Hill, C. Hilderbrand, A. Sarma, and M. Burnett, *Semi-Automating (or not) a Socio-Technical Method for Socio-Technical Systems*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), October 2018, pages 23-32.
- C.55 S. Chattopadhyay, N. Nelson, T. Nam, M. Calvert, and A. Sarma, *Context in Programming: An Investigation of How Programmers Create Context*, ACM/IEEE 11th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), June 2018, pages 22-36.
- C.54 C. Mendez, A. Sarma, and M. Burnett, *Gender in Open Source Software: What the Tools Tell*, IEEE/ACM 1st International Workshop on Gender Equality in Software Engineering (GE), May-June 2018, pages 21-24.
- C.53 C. Mendez, H. S. Padala, Z. Steine-Hanson, C. Hilderbrand, A. Horvath, C. Hill, L. Simpson, N. Patil, A. Sarma, and M. Burnett, *Open Source barriers to entry, revisited: A sociotechnical perspective*, ACM/IEEE International Conference on Software Engineering (ICSE), May 2018, pages 1004-1015.

- C.52 V. Vinayakara, A. Sarma, R. Purandare, S. Jai, and S. Jain, *An Empirical Examination of the Relationship Between Code Smells and Merge Conflicts*, IEEE/ACM 11th International Symposium on Empirical Software Engineering and Measurement (ESEM), November 2017, pages 58-67.
- C.51 R. Leano, S. Chattopadhyay, and A. Sarma, *What makes a task difficult? An empirical study of perceptions of task difficulty*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), November 2017, pages 67-71.
- C.50 K. J. Kaaz, A. Hoffer, M. Saeidi, A. Sarma, and R. B. Bobba, *Understanding user perceptions of privacy, and configuration challenges in home automation*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), October 2017, pages 297-301.
- C.49 S. McKee, N. Nelson, A. Sarma, and D. Dig, *Software Practitioner Perspectives on Merge Conflicts and Resolutions*, IEEE International Conference on Software Maintenance and Evolution (ICSME), September 2017, pages 467-478. [Distinguished Paper Award]
- C.48 N. Nelson, A. Sarma, and A. van der Hoek, *Towards an IDE to Support Programming as Problem-Solving*, 28th Annual Workshop of the Psychology of Programming Interest Group (PPIG), 2017, pages 105-108.
- C.47 C. Hill, M. Haag, A. Oleson, C. Mendez, N. Marsden, A. Sarma, and M. Burnett, *Gender-Inclusiveness Personas vs. Stereotyping: Can We Have it Both Ways?*, ACM Conference on Human Factors in Computing Systems (CHI), May 2017, pages 6658-6671. [Honorable Mention]
- C.46 S. S. Ragavan, B. Pandya, D. Piorkowski, C. Hill, S. Kuttal, A. Sarma, and M. Burnett, *PFIS-V: Modeling Foraging Behavior in the Presence of Variants*, ACM Conference on Human Factors in Computing Systems (CHI), May 2017, pages 6232-6244.
- C.45 D. Graziotin, R. Prikladnicki, M. Levy, A. Sarma, and D. Socha, *10th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2017)*, IEEE/ACM 10th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), May 2017, page 1.
- C.44 V. Vinayakara, A. Sarma, R. Purandare, S. Jai, and S. Jain, *ANNE: Improving Source Code Search using Entity Retrieval Approach*, SIGIR ACM International Conference on Web Search and Data Mining (WSDM), 2017, pages 211-220.
- C.43 C. Costa, J. Figueiredo, L. Murta, and A. Sarma, *TIPMerge: Recommending developers for merging branches*, ACM 24th SIGSOFT International Symposium on the Foundations of Software Engineering (FSE), Demonstration Track, November 2016, pages 998-1002.
- C.42 A. Sarma, M. A. Gerosa, I. Steinmacher, and R. Leano, *Training the future workforce through task curation in an OSS ecosystem*, ACM 24th SIGSOFT International Symposium on the Foundations of Software Engineering (FSE), Visions Track, November 2016, pages 932-935.
- C.41 C. Costa, J. Figueiredo, L. Murta, and A. Sarma, *TIPMerge: Recommending Experts for Integrating Changes across Branches*, SIGSOFT International Symposium on the Foundations of Software Engineering (FSE), November 2016, pages 523-534.
- C.40 K. J. North, A. Sarma, and M. B. Cohen, *Understanding Git History: A Multi-sense View*, ACM 8th International Workshop on Social Software Engineering (SSE) collocated with FSE, November 2016, pages 1-7.
- C.39 R. Leano, Z. Wang, and A. Sarma, *Labeling relevant skills in tasks: Can the crowd help?*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), 2016, pages 185-189.
- C.38 A. Sarma, X. Chen, S. Kuttal, L. Dabbish, and Z. Wang, *Hiring in the Global Stage: Profiles of Online Contributions*, IEEE 11th International Conference on Global Software Engineering (ICGSE), August 2016, pages 1-10. [Best Paper Award]

- C.37 S. S. Ragavan, C. Hill, S. Kuttal, A. Sarma, D. Piorkowski, and M. Burnett, *Foraging among an Overabundance of Similar Variants*, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), May 2016, pages 3509-3521. [Best Paper Award]
- C.36 K. J. North, S. Bolan, A. Sarma, and M. B. Cohen, *GitSonifier: Using Sound to Portray Developer Conflict History*, ACM 10th Joint Meeting on Foundations of Software Engineering (ESEC/FSE), NIER Track, August 2015, pages 886-889.
- C.35 A. Begel, R. Prikładnicki, Y. Dittrich, C. R. B. de Souza, A. Sarma, and S. Athavale, *8th international workshop on cooperative and human aspects of software engineering (CHASE 2015)*, IEEE/ACM 37th International Conference on Software Engineering (ICSE), Volume 2, May 2015, pages 969-970.
- C.34 J. R. da Silva Junior, E. Clua, L. Murta, and A. Sarma, *Niche vs. Breadth: Calculating Expertise through a Fine-Grained Analysis*, IEEE 22nd International Conference on Software Analysis, Evolution, and Re-engineering (SANER), March 2015, pages 409-418.
- C.33 K. Hart and A. Sarma, *Perceptions of Answer Quality in An Online Technical Question and Answer Forum*, ACM 7th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), May 2014, pages 103-106.
- C.32 J. R. da Silva Junior, E. Clua, L. Murta, and A. Sarma, *Exploratory Data Analysis of Software Repositories via GPU Processing*, 26th International Conference on Software Engineering and Knowledge Engineering (SEKE), July 2014, pages 495-500.
- C.31 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 (NIER), May 2014, pages 404-407.
- C.30 P. Wagstrom, C. Jergensen, and A. Sarma, *A Network of Rails: A Graph Dataset of Ruby on Rails and Associated Projects*, IEEE/ACM 10th Working Conference on Mining Software Repositories (MSR), June 2013, pages 229-232.
- C.29 S. K. Kuttal, A. Sarma, and G. Rothermel, *Predator Behavior in the Wild Web World of Bugs: An Information Foraging Theory Perspective*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), September 2013, pages 183-184.
- C.28 B. K. Kasi and A. Sarma, *Cassandra: Proactive Conflict Minimization through Optimized Task Scheduling*, IEEE/ACM 35th International Conference on Software Engineering (ICSE), June 2013, pages 732-741.
- C.27 B. K. Kasi and A. Sarma, *How to evaluate a conflict minimizing task scheduler through a user study*, IEEE 2nd International Workshop on User Evaluations for Software Engineering Researchers (USER), May 2013, pages 9-12.
- C.26 S. K. Kuttal, A. Sarma, and G. Rothermel, *Debugging Support for End-User Mashup Programming*, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), May 2013, pages 1609-1618.
- C.25 S. K. Kuttal, A. Sarma, and G. Rothermel, *History Repeats Itself More Easily When You Log It: Versioning for Mashup*, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), September 2011, pages 69-72.
- C.24 K. T. Stolee, S. Elbaum, and A. Sarma, *End-User Programmers and their Communities: An Artifact-based Analysis*, IEEE/ACM International Symposium on Empirical Software Engineering and Measurement (ESEM), September 2011, pages 147-156. [Distinguished Paper Award]
- C.23 C. Jergensen, A. Sarma, and P. Wagstrom, *The Onion Patch: Migration in Open Source Ecosystems*, 8th joint meeting of the European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), September 2011, pages 70-80.

- C.22 S. K. Kuttal, A. Sarma, A. Swearngin, and G. Rothermel, *Versioning for Mashups - An Exploratory Study*, Proceedings of the 3rd International Symposium on End-User Development, June 2011, pages 25-41.
- C.21 J. C. Georgas and A. Sarma, *STCML: an extensible XML-based language for socio-technical modeling*, IEEE/ACM 4th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), May 2011, pages 61-64.
- C.20 J. Wang and A. Sarma, *Which Bug Should I Fix: Helping New Developers Onboard A New Project*, IEEE/ACM 4th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), May 2011, pages 76-79.
- C.19 L. A. Dabbish, P. Wagstrom, A. Sarma, and J. D. Herbsleb, *Coordination in Innovative Design and Engineering: Observations from a Lunar Robotics Project*, ACM 16th International Conference on Supporting Group Work (GROUP), November 2010, pages 225-234.
- C.18 L. Maccherone, A. Sarma, P. Wagstrom, and J. Herbsleb, *Tesseract: Interactive Environment for Exploration of Project Relationships*, Formal Research Demonstration in the 31st International Conference on Software Engineering, May 2009, pages 405-406.
- C.17 A. Sarma, L. Maccherone, P. Wagstrom, and J. Herbsleb, *Tesseract: Interactive Visual Exploration of Socio-Technical Relationships in Software Development*, Proceedings of the 31st International Conference on Software Engineering, May 2009, pages 23-33.
- C.16 A. Sarma, D. Redmiles, and A. van der Hoek, *Empirical Evidence of the Benefits of Workspace Awareness in Software Configuration Management*, ACM 16th SIGSOFT International Symposium on the Foundations of Software Engineering (FSE), November 2008, pages 113-123.
- C.15 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*, International Workshop on Cooperative and Human Aspects of Software Engineering, May 2008, pages 1-4.
- C.14 A. Sarma, G. Bortis, and A. van der Hoek, *Towards Supporting Awareness of Indirect Conflicts across Software Configuration Management Workspaces*, IEEE/ACM 22nd International Conference on Automated Software Engineering (ASE), November 2007, pages 94-103. [Nominated for Best Paper Award]
- C.13 A. Sarma, D. Redmiles, and A. van der Hoek, *A Comprehensive Evaluation of Workspace Awareness in Software Configuration Management Systems*, Short paper in IEEE Symposium on Visual Languages and Human-Centric Computing, September 2007, pages 23-26.
- C.12 I. da Silva, M. Alvim, R. Ripley, A. Sarma, C. Werner, and A. van der Hoek, *Designing Software Cockpits for Coordinating Distributed Software Development*, First Workshop on Measurement-based Cockpits for Distributed Software and Systems Engineering Projects, August 2007, pages 14-18 (electronic proceedings).
- C.11 R. Ripley, A. Sarma, and A. van der Hoek, *A Visualization for Software Project Awareness and Evolution*, 4th International Workshop on Visualizing Software for Understanding and Analysis (VISSOFT), June 2007, pages 137-144.
- C.10 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, pages 69-72.
- C.9 A. Sarma and A. van der Hoek, *Towards Awareness in the Large*, Proceedings in the International Conference on Global Software Engineering, October 2006, pages 127-131.
- C.8 A. Sarma, A. van der Hoek, and L-T, Cheng, *A Need-Based Collaboration Classification Framework*, Proceedings of Eclipse as a Vehicle for CSCW Research Workshop, November 2004, pages 16-20 (also available as IBM Technical Report RC23339).

- C.7 R. Ripley, A. Sarma, and A. van der Hoek, *Workspace Awareness in Application Development*, Proceedings of Eclipse Technology Exchange Workshop, October 2004, pages 17–21.
- C.6 A. Sarma and A. van der Hoek, *A Conflict Detected Earlier is a Conflict Resolved Easier*, Proceedings of the 4th Workshop on Open Source Software Engineering, May 2004, pages 82–86.
- C.5 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*, Proceedings of the Workshop on Directions in Software Engineering Environments, May 2004, pages 29–36.
- C.4 A. Sarma and A. van der Hoek, *Visualizing Parallel Workspace Activities*, Proceedings of the IASTED International Conference on Software Engineering and Applications, November 2003, pages 435–440
- C.3 A. Sarma, Z. Noroozi, and A. van der Hoek, *Palantir: Raising Awareness among Configuration Management Workspaces*, Proceedings of the 25th International Conference on Software Engineering, May 2003, pages 444–454.
- C.2 A. Sarma and A. van der Hoek, *Palantir: Coordinating Distributed Workspaces*, Proceedings of the Workshop on Cooperative Support for Distributed Software Engineering Processes, August 2002, pages 1093–1097.
- C.1 A. Sarma and A. van der Hoek, *Palantir: Increasing Awareness in Distributed Software Development*, Proceedings of the 2nd Workshop on Global Software Development, May 2002, pages 28–32.

REFEREED ARCHIVAL WORKSHOPS

- W.18 U.A Mannan, I. Ahmed, and A. Sarma, *Towards Understanding Code Readability and Its Impact on Design Quality*, NL4SE workshop at FSE 2018: 18-21.
- W.17 C. J. Mendez, A. Sarma, M.M. Burnett, *Gender in Open Source Software: What the Tools Tell*. GenderEquality@ICSE 2018: 21-24.
- W.16 S. Chattopadhyay, N. Nelson, T. Nam, M. Calvert, A. Sarma, *Context in programming: an investigation of how programmers create context*, CHASE@ICSE 2018: 33-36.
- W.15 K. J. North, A. Sarma and M. B. Cohen, *Understanding Git History: A Multi-sense View*, ACM 8th International Workshop on Social Software Engineering (SSE) collocated with FSE, November 2016, pages 1-7.
- 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, pages 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, pages 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, pages 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, pages 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, pages 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, pages 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, pages 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, pages 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, pages 16-20.
- W.5 R. Ripley, A. Sarma, and A. van der Hoek, *Workspace Awareness in Application Development*, Eclipse Technology eXchange Workshop, October 2004, pages 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, pages 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, pages 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, pages 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, pages 28-32.

REFEREED NONARCHIVAL WORKSHOPS AND SYMPOSIA

- O.18 M. Burnett, A. Sarma, C. Mendez, A. Oleson, C. Hilderbrand, Z. Steine-Hanson, and A. J. Ko, *Gender Biases In Software For Problem-Solving*, Workshop in Conjunction with VL/HCC 2018 on Designing Technologies to Support Human Problem Solving, October 2018.
- O.17 R. Leano, B. Kasi, and A. Sarma, *Recommending Task Context: Automation meets Crowd*, FSE Workshop on Context in Software Development collocated, November 2014.
- O.16 P. Wagstrom and A. Sarma, *Using Analytics to Support Decision Processes for Development and Design*, Workshop on Future of Collaborative Software Development, February 2012.
- 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.13 U. A. Mannan, I. Ahmed, C. Jensen, and A. Sarma, *The Evolution of Software Entropy in Open Source projects: An Empirical Study*, Technical Report, Oregon State University, 2020.
- T.12 M. Guizani, I. Steinmacher, J. Emard, A. Fallatah, M. Burnett, and A. Sarma, *How to Debug Inclusivity Bugs? An Empirical Investigation of Finding-to-Fixing with Information Architecture*, Technical Report, Oregon State University, 2020.
- T.11 V. Vinayakarao, R. Purandare, S. Keswani, D. Sondhi, and A. Sarma, *Replacements and Replaceables: Making the Case for Code Variants*, Technical Report, arXiv:2006.03844, IIIT-Delhi, Oregon State University, 2020.
- T.10 C. Hilderbrand, C. Perdriau, L. Letaw, J. Emard, Z. Steine-Hanson, M. Burnett, and A. Sarma, *Engineering Gender-Inclusivity into Software: Tales from the Trenches*, Technical Report, arXiv:1905.10361, Oregon State University, 2019.
- T.9 Z. Steine-Hanson, C. Hilderbrand, L. Letaw, J. Emard, C. Perdriau, C. Mendez, M. Burnett, and A. Sarma, *Fixing Inclusivity Bugs for Information Processing Styles and Learning Styles*, Technical Report, arXiv:1905.02813, Oregon State University, 2019.
- T.8 X. Chen and A. Sarma, *Supporting Comparison of Developer Profiles across Online Communities*, Technical Report, Oregon State University, 2016.
- T.7 P. Wagstrom, C. Jergensen, and A. Sarma, *Roles in a Networked Software Development Ecosystem: A Case Study in GitHub*, Technical Report, TR-UNL-CSE-2012-0006, University of Nebraska, Lincoln, 2012.

- 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-061, 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-02-08, University of California, Irvine, Institute for Software Research, January 2003.

INVITED PRESENTATIONS

- P.35 Jan 2020, *Engineering Inclusivity into Software Products*, PDX Lunch and Learn (60 min)
- P.34 December 2019, *Gender-Inclusivity in Software Engineering*, colloquium talk at Reed College (60 min)
- P.33 October 2019, *Gender-Inclusive Software Design*, colloquium talk at University of Oregon (60 min)
- P.32 July 2019, *Is the Software Itself Gender-Biased? OSS Tools and Gender Inclusivity*, invited tech talk O'Reilly, Open Source Software Conference (OSCON) (40 min)
- P. 31 June 2019, *Gender-Inclusivity Software Engineering*, Keynote at Software Developer Diversity and Inclusion Workshop, co-presented with Dr. Burnett (60 min)
- P.30 June 2019, *Gender Inclusivity in Software Tools and Technology*, Google Tech Talk (45 min)
- P.29 April 2019, *Gender-Inclusivity Software Engineering*, ACM SIGSFOT Webinar 2019. co-presented with Dr. Burnett (60 min)
- P.28 March 2019, *Gender inclusivity in Open Source Software*, 7th biennial Michigan Celebration of Women in Computing Conference (MICWIC 2019); Also part of the 2019 CRA-W Distinguished Lecture Series (60 min)
- P.27 October 2018, *Gender-Inclusive Software: Facts and Fixes*, Wikimedia Tech Conference (50 min), co-presented with Dr. Burnett (50 min)
- P.26 August 2018, *Gender Biases Embedded in Open Source Software*, invited speaker at the Linux Foundation Open Source Summit North America (40 min)
- P.25 July 2018, *Gender Biases Embedded in Open Source Software*, Invited talk at Mozilla (50 min)
- P.24 February 2018, *Is the Software Itself Gender-Biased? OSS Tools and More*, IBM, TJ Watson NY (50 min), co-presented with Dr. Burnett
- P.23 January 2017, *Open Source Barriers to Entry: Are Tools Complicit in Gender Bias*, IBM, Almaden (50 min)
- P.22 Oct 2016, *Coordinating Socio-Technical Dependencies in Distributed Development*, Indraprastha Institute of Technology (50 min).
- P.21 July 2015; Keynote at Seminar Series on Advanced Techniques & Tools for Software Evolution (SATToSE 2015) (50 min)

- P.20 February 2015, University of Colorado, Boulder (50 min)
- 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)

COURSES TAUGHT at OSU

- CS352 Introduction to Human-Computer Interaction: Winter 2020, 2021
- CS 560 Data-Driven Software Engineering: Spring 2016, Spring 2017, Winter 2019, Fall 2020
- CS569/567 Laboratory Studies in SE and HCI: Spring 2016, Winter 2017, Spring 2018, Fall 2019
- CS419/579 Usable Security: Spring 2019, Winter 2020, Winter 2021
- CS 519 Sensemaking in Software Development, Winter 2016
- CS 361 Software Engineering: Fall 2015, Winter 2017, Fall 2017

COURSES TAUGHT at UNL

- CSCE 496/896 Coordination in Global Software Development, Fall 2009, Spring 2015
- CSCE 378(H) Human Computer Interaction, Spring 2010, 2011, 2012, 2013
- CSCE 361 Software Engineering, Fall 2011, 2012, 2013, 2014
- CSCE990 Empirical Software Engineering, Fall 2010, 2013; Spring 2012

GRADUATE STUDENTS SUPERVISED

Thesis Committee Chair

- Amreeta Chatterjee OSU, PhD (expected 2024)

Mariam Guizani	OSU, PhD (expected 2022)
Mahsa Saeidi	OSU, PhD (expected 2021)
Nicholas Nelson	OSU, PhD (expected 2021)
Souti Chattopadhyay	OSU, PhD (expected 2021)
Rafael Andres Leaña	OSU, PhD
Turguy Caglar	OSU, MS (expected 2021)

Caius Brindescu	OSU, PhD (graduated 2020) – co-chair
Umme A. Mannan	OSU, PhD (graduated 2020) – co-chair
Manideepa Sanginathan	OSU, MS (graduated 2020)
Marjan Adeli	OSU, MS (graduated 2020)
Sogol Balali	OSU, MS (graduated 2019)
Iftekhar Ahmed	OSU, PhD (graduated 2018)
Shane McKee	OSU, MS (graduated 2016)
Kevin North	UNL, MS (graduated 2016) – co-chair
Bakhtiar K Kasi	UNL, PhD (graduated 2015)
Sandeep Kuttal	UNL, PhD (graduated 2014) – co-chair
Corey Jergensen	UNL, MS (graduated 2013)
Jianguo Wang	UNL, MS (graduated 2012)

Thesis Committee

Abdullah Azzouni	OSU, PhD (expected 2021)
Sruti Srinivasan	OSU, PhD (graduated 2019)
Haya A. Alorajj	OSU, MS (graduated 2019)
Sara Alhamar	OSU, MS (graduated 2019)
Claudia Hilderbrand	OSU, MS (graduated 2019)
Paola R. Accioly	Federal University of Pernambuco PhD (graduated 2018)
Daniel Lin	OSU, MS (graduated 2018)
Bhargav Pandya	OSU, MS (graduated 2017)
Charles Hill	OSU, MS (graduated 2017)
Deepthi K Satish	OSU, MS (graduated 2017)
Sean Penny	OSU, MS (graduated 2017)
Shivani Wanjara	OSU, MS (graduated 2017)
Vishnupriya Rayala	OSU, MS (graduated 2017)
Catarina Costa	UFF, Brazil PhD (graduated 2017)
Lakshman Kollipara	OSU, MS (graduated 2016)
Laxmi Ganeshan	OSU, MS (graduated 2016)
Jose Ricardo Jr. da Silva	UFF, Brazil, PhD (graduated 2016)
Monika Gupta	IIITD, India, PhD (graduated 2016)
Surendar Nambirajan	OSU, MS (graduated 2016)
David Piorkowski	OSU, PhD (graduated 2016)
Rithika Kiran Naik	OSU, MS (graduated 2015)
Will Jernigan	OSU, MS (graduated 2015)
Alannah Oleson	OSU, UG (graduated 2018)
Zoe Steine-Hanson	OSU, UG (graduated 2019)
Zhongyin Zhang	UNL, MS (graduated 2014)
Andrew Mittleider	UNL, MS (graduated 2014)
Amanda Swearngin	UNL, MS (graduated 2012)
Chris Assi	UNL, MS (graduated 2012)
Katie Stolee	UNL, MS (graduated 2010)
Si Huang	UNL, MS (graduated 2010)

GRADUATE AND POST-DOCTORAL STUDENTS ADVISED

Xiaofan Chen 2014-2015

UNDERGRADUATE STUDENTS MENTORED

Evie May	OSU, expected 2021
Catherine Stevens	OSU, expected 2023
Jett Seale	OSU, expected 2023
Karen Berba	OSU, expected 2023
Leif Tsang	OSU, graduated 2020
Yennifer Ramirez	OSU, graduated 2020
Thien Nam	OSU, graduated 2020
McKenzie Calvert	OSU, graduated 2020
Jillian Emard	OSU, graduated 2019
Susmita Padala	OSU, graduated 2019, (Honors thesis, Adobe Women in Technology Awardee)
Umayal Annamalai	OSU, graduated 2019, (Honors thesis, best presenter award ECSCW 2018)
Zoe Steine-Hanson	OSU, graduated 2019
Alex Hoffer	OSU, EECS funded, graduated 2017
Zhendong Wang	UNL, NSF funded, graduated 2014
David Montz	UNL, REU funded, graduated 2015
Caleb Larsen	UNL, REU funded, graduated 2013
Azrina Azmi Abdullah	UNL, graduated 2013
Megan Jensen	UNL, graduated 2013
Brad Hoff	UNL, graduated 2013
James Sukup	UNL, UCARE** funded, 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

HIGH SCHOOL STUDENTS MENTORED

Jimena Noa Guierva	ASE Program, 2020
Liam Russel	ASE Program, 2020
Audrey Au	ASE Program, 2019, 2020
Anusha Vasudevan	ASE Program, 2019
Natalia Morales	ASE Program, 2019
Annel Amelia Leon	ASE Program, 2018, Undergraduate in Stanford

PROFESSIONAL SERVICE

Editorial Board and Conference Organization

- Workshop Committee co-Chair: International Conference on Software Engineering: 2022
- Program Committee co-Chair: International Conference on Program Comprehension, ICPC: 2021
- Program Committee co-Chair: International Conference on Software Engineering, SEIS: 2020
- Committee co-chair for FSE 2020 test time of award.
- Program Committee co-Chair: International Conference on Software Engineering, NIER track: 2019
- Program Committee co-Chair: International Conference on Global Software Engineering (VL/HCC): 2017
- Program Committee co-Chair: IEEE Symposium on Visual Languages & Human Centered Computing (VL/HCC): 2017
- Graduate Consortium Chair: IEEE Symposium on Visual Languages & Human Centered Computing (VL/HCC), 2015, 2016

- Workshop Chair: ACM/IEEE International Conference on 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), 2015
- Formal Demonstration Chair: ACM/IEEE International Conference on Software Engineering (ICSE): 2014
- Student Volunteer Chair: Foundations of Software Engineering (FSE): 2010
- *Editorial Board* for Transactions on Software Engineering: 2019-present
- *Steering Committee*: Workshop on Cooperative and Human Aspects of Software Engineering (CHASE): 2017-present
- Student Volunteer Chair: ACM SIGSOFT Foundations of Software Engineering (FSE): 2010
- *Co-director*: GenderMag Project

Workshop organizer

- International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE) – 2015, 2016, 2017
- 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

- ACM SIGSOFT Foundations of Software Engineering (FSE): 2019, 2020, 2021
- IEEE/ACM International Conference on Program Comprehension (ICPC): 2020
- ACM/IEEE International Conference on Software Engineering, *Doctoral Symposium*: 2020
- ACM/IEEE International Conference on Software Engineering (ICSE): 2011, 2015 (RC), 2016 (PB), 2018 (PC), 2019 (PC), 2021
- IEEE International Conference on Global Software Engineering (ICGSE): 2007, 2013, 2014, 2015, 2016, 2018, 2019, 2020
- IEEE International Symposium on Visual Languages & Human Centered Computing (VL/HCC): 2013, 2014, 2015, 2016, 2018, 2019
- IEEE International Symposium on Visual Languages & Human Centered Computing (VL/HCC) *Doctoral Symposium*: 2014, 2017, 2018, 2019
- ACM/ IEEE International Conference on Automated Software Engineering (ASE): 2011, 2012, 2015, 2017, 2018
- IEEE/ ACM International Conference on Mining Software Repository (MSR): 2010, 2015, 2016, 2017
- IEEE International Conference on Software Maintenance Evolution (ICSME): 2017
- ACM/ IEEE International Conference on Software Engineering, Research Demonstration track (ICSE): 2015
- India Software Engineering Conference (ISEC): 2014, 2015
- International Symposium on End-User Development (ISEUD): 2013, 2015, 2017
- ACM/ IEEE International Conference on Software Engineering, New Ideas and Emerging Results (NIER) track: 2013
- ACM/IEEE International Conference on Software Engineering (ICSE) - Student Research Competition 2012
- ACM Conference on Supporting Group Work (GROUP): 2010
- ACM SIGSOFT Foundations of Software Engineering, Research Demonstration track (FSE): 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 Cooperative and Human Aspects of Software Engineering (CHASE) at ICSE: 2008, 2009, 2011, 2012, 2013, 2014, 2018, 2019
- Workshop on Crowd Sourcing in Software Engineering (CSI-SE): 2014, 2017, 2018
- 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

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

- Workshop on Knowledge Engineering in GSD at ICGSE: 2009
- Workshop on Future of Collaborative Software Development at CSCW: 2012

Journal Reviews

- ACM Transactions on Computer Human Interactions (TOCHI) – 2012, 2019
- IEEE Software: 2018, 2019
- ACM Journal of Computer Supported Cooperative Work (CSCW): 2008, 2017, 2018
- IEEE Transactions on Software Engineering (TSE): 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2017, 2018, 2019
- ACM Transactions on Education (TE): 2014
- Journal of Empirical Software Engineering (JESE): 2008, 2009, 2014
- Communications of the ACM (CACM) – 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
- 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 Supported Cooperative Work (CSCW): 2008, 2010, 2011, 2012, 2019, 2020
- Computer Human Interaction (CHI): 2008, 2009, 2010
- Book Chapter in Collaborative Software Engineering: 2008

NSF Reviews

- NSF panel reviewer: 2012, 2013, 2014, 2015, 2020
- NSF ad hoc reviewer: 2010

Other

- ACM SIGSOFT Outstanding Research Award selection committee: 2019-2020
- ACM SIGSOFT Early Career Researcher Awards Committee: 2019-2020
- Co-Director of GenderMag.org: 2018-present
- Steering Committee: Workshop on Cooperative and Human Aspects of Software Engineering (CHASE)
- Steering Committee: International Conference on Global Software Engineering (2016-2018)
- Director of End Users Shaping Effective Software (EUSES) consortium: 2015-2017
- Executive committee member of End Users Shaping Effective Software (EUSES) consortium, which includes eight universities and two industrial collaborators (2013-2015)
- Big Red Summer Camp on 3D Animation and Virtual World Creations: using Alice; 2011

OUTREACH ACTIVITIES

Panelists

- Invited Panel: Gender Equality Workshop, collocated with ICSE, May 2019
- 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

- Participated as a mentor in the Hour of Code Workshops as part of the Nebraska Women in Science Conference (2015).
- Founded and guiding the ACM-W chapter for Women in Computer Science in the Computer Science Department at UNL, 2015.
- Designed and guided the implementation of *Kinection* – 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 2013), 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 took 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 (OSU)

2019	Search Committee Chair
2016 – 2019	Dossier committee
2015 – 2019	Graduate committee
2018 – present	Tiger Team for faculty recruitment
2015	Search committee

DEPARTMENT SERVICE (UNL)

2014-2015	Diversity committee
2014- 2015	Graduate Admissions committee
2013 – 2014	CSE Grad Day recruitment event - ESQuaRED faculty lead
2011 – 2015	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

2015 – Present	Society of Women Engineers (SWE)
2011 – Present	End Users Shaping Effective Software (EUSES) consortium, which includes nine universities and two industry partners.
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)