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EDUCATION

- 1994 – 1999 Doctor of Philosophy in Computer Science
University of Colorado, Boulder
Dissertation Title: *A Reusable, Distributed Repository for Configuration Management Policy Programming*
- 1989 – 1994 Master and Bachelor of Science in Business-Oriented Computer Science
Erasmus University, Rotterdam, Netherlands
Thesis Title: *Parallel Global Optimization of Proteins*

EMPLOYMENT

- 2000 – Present University of California, Irvine, Donald Bren School of Information and Computer Sciences, Department of Informatics
2023 – present: *Associate Dean for Academic Affairs*
2009 – present: *Professor*
2011 – 2021: *Chair*
2009 – 2011: *Associate Dean for Student Affairs*
2009 – 2011: *Equity Advisor*
2005 – 2009: *Associate Professor*
2000 – 2005: *Assistant Professor*
- 1993 – 1999 University of Colorado, Boulder, Department of Computer Science
1994 – 1999: *Graduate Research Assistant*
1993 – 1994: *Professional Research Assistant*
- Summer 1995 AT&T Bell Laboratories, Murray Hill, NJ
Intern
- 1992 – 1993 Van Buuren-Van Swaay, B.V., Zoetermeer, Netherlands
Intern
- 1991 – 1993 Erasmus University, Rotterdam, Netherlands, Department of Computer Science
Teaching Assistant

LEADERSHIP TRAINING

- 2019 UC CORO Systemwide Leadership Collaborative (14 days)

- 2024 <https://www.ucop.edu/human-resources/coro/index.html>
UC Academic Personnel Academy

ACADEMIC PROGRAM REVIEWS

- 2022 Programs in Software Engineering, University of UT Dallas
2020 School of Information, University of Arizona
2019 Department of Computational Media, UC Santa Cruz (chair)
2019 Master of Science in Information Systems, SUNY Binghamton University (chair)
2017 Graduate Programs in Electrical and Computer Engineering, University of Texas at Austin

CONSULTING

- 2014 Three-day course on creative software design, Samsung Electronics, South Korea
Two-day course on creative software design, Samsung Electronics, South Korea
2013 Three-day course on creative software design, Samsung Electronics, South Korea
Two-day course on creative software design, Samsung Electronics, South Korea

BOOKS

- B.1 M. Petre and A. van der Hoek, *Software Design Decoded: 66 Ways Experts Think*, MIT Press, 2016.

EDITED BOOKS

- EB.2 A. van der Hoek and M. Petre, *Software Designers in Action: A Human-Centric Look at Design Work*, CRC Press, 2013.
EB.1 I. Mistrik, J. Grundy, A. van der Hoek, and J. Whitehead, *Collaborative Software Engineering*, Springer-Verlag, 2010.

REFEREED JOURNAL PUBLICATIONS

- J.27 H. de Campos, G. Ghiotto, M. Barros, A. van der Hoek, and L. Murta, *Towards a Feasible Evaluation Function for Search-based Merge Conflict Resolution*, ACM Transactions on Software Engineering and Methodology (accepted).
J.26 V. Jackson, B. Vasilescu, D. Russo, P. Ralph, R. Prikladnicki, M. Izadi, S. D'Angelo, S. Inman, A. Andrade, and A. van der Hoek, *The Impact of Generative AI on Creativity in Software Development: A Research Agenda*, ACM Transactions on Software Engineering and Methodology, 34(5):2025, pages 1–28.
J.25 H. Freedman, A. Agha Kouchak, A.J. Rigden, A. van der Hoek, and Bill Tomlinson, *Disparities in the Impact of Drought on Agriculture across Countries*, Scientific Reports, 15:2025, article 13465 (10 pages).

- J.24 A. de Andrade, V. Jackson, R. Prikladnicki, and A. van der Hoek, *On Meetings Involving Remote Software Teams: A Systematic Literature Review*, Information and Software Technology, 175: 2024 (36 pages).
- J.23 H. de Campos, G. Ghiotto, M. Barros, A. van der Hoek, and L. Murta, *How Code Composition Strategies Affect Merge Resolution?*, Journal of Software Engineering Research and Development, 12(1): 2024, pages 1–13.
- J.22 E. Almeida, I. Ahmed, and A. van der Hoek, *Let's Go to the Whiteboard (Again): Perceptions from Software Architects on Whiteboard Architecture Meetings*, IEEE Transactions on Software Engineering, 49(10): 2023, pages 4773–4795.
- J.21 V. Jackson, R. Prikladnicki, A. van der Hoek, and L. Marshall, *Team Creativity in a Hybrid Software Development World: Eight Approaches*, IEEE Software, 40(02): 2023, pages 60–69.
- J.20 G. Ghiotto, L. Murta, M. Barros, and A. van der Hoek, *On the Nature of Software Merge Conflicts: a Study of 2,731 Open Source Java Projects Hosted by GitHub*, IEEE Transactions on Software Engineering, 46(8):2020, pages 892–915.
- J.19 T.D. LaToza, A. di Lecce, F. Ricci, W.B. Towne, and A. van der Hoek, *Microtask Programming*, IEEE Transactions on Software Engineering, 45(11):2019, pages 1106–1124 (selected to be presented at ESEC/FSE 2018 as a Journal First paper).
- J.18 T.D. LaToza and A. van der Hoek, *Crowdsourcing in Software Engineering*, IEEE Software, 33(1):2016, pages 74–80.
- J.17 N. Mangano, T.D. LaToza, M. Petre, and A. van der Hoek, *How Software Designers Interact with Informal Sketches at the Whiteboard*, IEEE Transactions on Software Engineering, 41(2):2015, pages 135–156.
- J.16 N. Mangano and A. van der Hoek, *The Design and Evaluation of a Tool to Support Software Designers at the Whiteboard*, Automated Software Engineering, 19(4): 2012, pages 381–421.
- J.15 A. Sarma, D. Redmiles, and A. van der Hoek, *Palantir: Early Detection of Development Conflicts Arising from Parallel Code Changes*, IEEE Transactions on Software Engineering, 38(4): 2012, pages 889–908.
- J.14 A. Baker and A. van der Hoek, *Ideas, Subjects, and Cycles as Lenses for Understanding the Software Design Process*, Design Studies, 31(6): 2010, pages 590–613.
- J.13 A. Sarma, D. Redmiles, and A. van der Hoek, *Categorizing the Spectrum of Coordination Technology*, IEEE Computer, 43(6): 2010, pages 61–67.
- J.12 J. Georgas, A. van der Hoek, and R.N. Taylor, *Using Architectural Models to Manage and Visualize Runtime Adaptation*, IEEE Computer, 42(10):2009, pages 52–60.
- J.11 L.P.G. Murta, A. van der Hoek, and C.M.L. Werner, *Continuous and Automated Evolution of Architecture-to-Implementation Traceability Links*, Automated Software Engineering Journal, 15(1):2008, pages 75–107.
- J.10 B. Al-Ani, D. Redmiles, A. van der Hoek, M. Alvim, I. Almeida da Silva, N. Mangano, E. Trainer, A. Sarma, *Continuous Coordination within Software Engineering Teams: Concepts and Tool Support*, Journal of Computer Science and Engineering in Arabic, 1(3):2008, pages 10–33.
- J.9 D. Redmiles, A. van der Hoek, B. Al-Ani, T. Hildenbrand, S. Quirk, A. Sarma, R. Silva Filho, C. de Souza, and E. Trainer, *Continuous Coordination: A New Paradigm to Support Globally Distributed Software Development Projects*, Wirtschaftsinformatik, 49:2007, pages S28–S38.
- J.8 J. Estublier, D. Leblang, G. Clemm, R. Conradi, A. van der Hoek, W. Tichy, and D. Wiborg-Weber, *Impact of the Research Community on the Field of Software Configuration Management*, ACM Transactions on Software Engineering and Methodology, 14(4):2005, pages 1–48.

- J.7 E. Oh Navarro and A. van der Hoek, *Software Process Modeling for an Educational Software Engineering Simulation Game*, Software Process Improvement and Practice special issue containing expanded best papers from the Fifth International Workshop on Software Process Simulation and Modeling, 10(3):2004, pages 311–325.
- J.6 E. Dashofy, A. van der Hoek, and R.N. Taylor, *A Comprehensive Approach for the Development of XML-Based Software Architecture Description Languages*, ACM Transactions on Software Engineering and Methodology, 14(2):2005, pages 199–245.
- J.5 R. Roshandel, A. van der Hoek, M. Mikic-Rakic, N. Medvidovic, *Mae – A System Model and Environment for Managing Architectural Evolution*, ACM Transactions on Software Engineering and Methodology, 13(2):2004, pages 240–276.
- J.4 A. van der Hoek, *Design-Time Product Line Architectures for Any-Time Variability*, Science of Computer Programming special issue on Software Variability Management, 53(30):2004, pages 285–304.
- J.3 A. Baker, E. Oh Navarro, and A. van der Hoek, *An Experimental Card Game for Teaching Software Engineering Processes*, Journal of Systems and Software special issue containing invited and expanded best papers from the 2003 International Conference on Software Engineering & Training, 75:1-2, 2005, pages 3–16 (**top 10 most cited papers of Journal of Systems and Software, 10 years later**).
- J.2 A. van der Hoek and A.L. Wolf, *Software Release Management for Component-Based Software*, Software – Practice and Experience, 33:2003, pages 77–98.
- J.1 A. van der Hoek, A. Carzaniga, D. Heimburger, and A.L. Wolf, *A Testbed for Configuration Management Policy Programming*, IEEE Transactions on Software Engineering, 28(1):2002, pages 79–99.

REFEREED CONFERENCE AND WORKSHOP PUBLICATIONS

- C.137 Y. Lu and A. van der Hoek, *Decoding Student Rating Behaviors: A Comparative Study of Frequent Self and Peer Assessments in Team Projects*, International Conference on the Foundations of Software Engineering Education Track, June 2025, pages 912–923.
- C.136 A. Deshpande and A. van der Hoek, *Visualizing Team Progress and Contributions in Student Projects with TeamCAST*, International Conference on Software Engineering Education and Training, April 2025, pages 382–393.
- C.135 Y. Lu and A. van der Hoek, *Visualizing Frequent Peer Assessment Results to Uncover Problems in Team Dynamics*, International Conference on Software Engineering Education and Training, April 2025, pages 365–375.
- C.134 K. Kohl, Y. Cha, V. Jackson, S. Branham, A. van der Hoek, and R. Prikladnicki, *Creative Problem-Solving: A Study with Blind and Low Vision Software Professionals*, International Conference on Cooperative and Human Aspects of Software Engineering, April 2025, pages 51–56.
- C.133 N. Wong, N.-Y. Cheng, B. Oewel, K. Genuario, SE Stoeckl, S. Schueller, I. Ahmed, A. van der Hoek, and M. Reddy, *'It's a spectrum': Exploring Autonomy, Competence, and Relatedness in Software Development Processes and Tools*, CHI Conference on Human Factors in Computing Systems, April 2025, article 151, pages 1–19 (**Honorable Mention**).
- C.132 Y. Cha, V. Jackson, K. Kohl, R. Prikladnicki, A. van der Hoek, and S. Branham, *The Dilemma of Building Do-It-Yourself (DIY) Solutions for Workplace Accessibility*, CHI Conference on Human Factors in Computing Systems, April 2025, article 47, pages 1–17 (**Honorable Mention**).

- C.131 G. Pereira, V. Jackson, R. Prikladnicki, A. van der Hoek, L. Fortes, C. Araújo, A. Coelho, L. Chelli, and D. Ramos, *Exploring GenAI in Software Development: Insights from a Case Study in a Large Brazilian Company*, International Conference on Software Engineering: Software Engineering in Practice Track, April 2025, pages 330–341.
- C.130 Y. Cha, I. Figueira, J. Ayala, E.J. Edwards, J. Garcia, A. van der Hoek, and S. Branham, *Do You Want Me to Participate or Not?* CHI Conference on Human Factors in Computing Systems, May 2024, article 933, pages 1–17.
- C.129 Y. Cha, V. Jackson, I. Figueira, S. Branham, and A. van der Hoek, *Understanding the Career Mobility of Blind and Low Vision Software Professions*, Seventeenth International Conference on Cooperative and Human Aspects of Software Engineering, April 2024, pages 170–181 (**Distinguished Paper Award**).
- C.128 A. Meza Soria, T. Lopez, E. Seero, N. Mashhadi, E. Evans, J. Burge, and A. van der Hoek, *Characterizing Software Maintenance Meetings: Information Shared, Discussion Outcomes, and Information Captured*, Forty-Sixth International Conference on Software Engineering, April 2024, article 56, pages 1–13.
- C.127 V. Jackson, R. Prikladnicki, and A. van der Hoek, *Co-Creation in Fully Remote Software Teams*, Forty-Sixth International Conference on Software Engineering, April 2024, article 51, pages 1–12.
- C.126 H. Freedman, N. Young, D. Schaefer, Qingyu Song, A. van der Hoek, and B. Tomlinson, *Construction and Analysis of Collaborative Educational Networks based on Student Concept Maps*, Proceedings of the ACM on Human-Computer Interaction, Volume 8, Issue CSCW1, article 36, pages 1–22.
- C.125 Yu Lu and A. van der Hoek, *The Daily Smirk: A Preliminary Prototype for Continuous Peer Assessment of Team-based Projects*, Thirty-fifth International Conference on Software Engineering Education and Training, August 2023, pages 31–40 (**Best Paper Award**).
- C.124 L. Seero, J. Burge, A. Meza Soria, and A. van der Hoek, *Exploring a Research Agenda for Design Knowledge Capture in Meetings*, Sixteenth International Conference on Cooperative and Human Aspects of Software Engineering, May 2023, pages 37–42.
- C.123 N. Wong, V. Jackson, A. van der Hoek, I. Ahmed, S. Schueller, and M. Reddy, *Mental Wellbeing at Work: Perspectives of Software Engineers*, 2023 CHI Conference on Human Factors in Computing Systems, April 2023, pages 1–15.
- C.122 L. Ciribelli, J. Lima, H. Campos, M. Barros, A. van der Hoek, L. Murta, and G. Ghiotto, *Merge Nature: A Tool to Support Research about Merge Conflicts*, Tenth Workshop on Software Visualization, Evolution, and Maintenance, October 2022 (5 pages).
- C.121 H. Campos, G. Ghiotto, M. Barrios, A. van der Hoek, and L. Murta, *Toward Merge Conflict Resolution by Combining Existing Lines of Code*, Thirty-sixth Brazilian Symposium on Software Engineering, October 2022, pages 425–434 (**Distinguished Paper Award**).
- C.120 H. Freedman, A. van der Hoek, and B. Tomlinson, *Improving Wikidata with Student-Generated Concept Maps*, International AAAI Conference on Web and Social Media, June 2022, pages 205–215.
- C.119 B. Ryan, A. Meza Soria, K. Dreef, and A. van der Hoek, *Reading to Write Code: An Experience Report of a Reverse Engineering and Modeling Course*, IEEE/ACM Forty-fourth International Conference on Software Engineering: Software Engineering Education and Training, May 2022, pages 223–234.
- C.118 V. Jackson, A. van der Hoek, and R. Prikladnicki, *Collaboration Tool Choices and Use in Remote Teams: Emerging Results from an Ongoing Study*, Fifteenth International Conference on Cooperative and Human Aspects of Software Engineering, May 2022, pages 76–80.
- C.117 A. Meza Soria, A. van der Hoek, and J. Burge, *Recurring Distributed Software Maintenance Meetings: Toward an Initial Understanding*, Fifteenth International Conference on Cooperative and Human Aspects of Software Engineering, May 2022, pages 21–25.

- C.116 A. Meza Soria and A. van der Hoek, *The Design of a Study Concerning the Capture of Important Design Bits at the Whiteboard*, Fifth International Workshop on Human Factors in Modeling / Modeling of Human Factors, October 2021, pages 390–399.
- C.115 D. Kutas, A. Nair, P. Singh, E. Kan, J. Burge, and A. van der Hoek, *Linecept: Preliminary Design and Implementation of a Timeline-Based Design Coordination Tool*, Thirteenth International Workshop on Cooperative and Human Aspects of Software Engineering, June 2020, pages 129–132.
- C.114 E. Paikari, J. Choi, S. Kim, S. Baek, M. Kim, S. Lee, C. Han, Y. Kim, K. Ahn, C. Cheong, and A. van der Hoek, *A Chatbot for Conflict Detection and Resolution*, First International Workshop on Bots in Software Engineering, May 2019, pages 29–33.
- C.113 A. Meza Soria and A. van der Hoek, *Collecting Design Knowledge through Voice Notes*, Twelfth International Workshop on Cooperative and Human Aspects of Software Engineering, May 2019, pages 33–36.
- C.112 A. Rastogi, N. Nagappan, G. Gousios, and A. van der Hoek, *Relationship between Geographical Location and Evaluation of Developer Contributions in GitHub*, Twelfth ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, October 2018, pages 1–8 (**Open Data Recognition Award**).
- C.111 E. Paikari and A. van der Hoek, *A Framework for Understanding Chatbots and their Future*, Eleventh International Workshop on Cooperative and Human Aspects of Software Engineering, May 2018, pages 13–16.
- C.110 M. Book and A. van der Hoek, *Sketching with a Purpose: Moving from Supporting Modeling to Supporting Software Engineering Activities*, Eleventh International Workshop on Cooperative and Human Aspects of Software Engineering, May 2018, pages 93–96.
- C.109 A. Meza Soria and A. van der Hoek, *Toward Collecting and Delivering Knowledge for Software Design at the Whiteboard*, Eleventh International Workshop on Cooperative and Human Aspects of Software Engineering, May 2018, pages 108–109.
- C.108 L. Martie, A. van der Hoek, and T. Kwak, *Understanding the Impact of Support for Iteration on Code Search*, Eleventh Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, September 2017, pages 774–785.
- C.107 E.R.Q. Weidema, C. López, S. Nayeabaziz, F. Spanghero, and A. van der Hoek, *Toward Microtask Crowdsourcing Software Design Work*, Third International Workshop on Crowdsourcing in Software Engineering, May 2016, pages 41–44.
- C.106 L. Martie, T.D LaToza, and A. van der Hoek, *CodeExchange: Supporting Reformulation of Internet-Scale Code Queries in Context*, Thirtieth International Conference on Automated Software Engineering, November 2015, pages 24–35.
- C.105 T.D. LaToza, A. Di Lecce, F. Ricci, W.B. Towne, and A. van der Hoek, *Ask the Crowd: Scaffolding Coordination and Knowledge Sharing in Microtask Programming*, Symposium on Visual Languages and Human-Centric Computing, October 2015, pages 23–27.
- C.104 L. Martie and A. van der Hoek, *Sameness: An Experiment in Code Search*, Twelfth Working Conference on Mining Software Repositories, May 2015, pages 76–87.
- C.103 M. Zhao and A. van der Hoek, *A Brief Perspective on Microtask Crowdsourcing Workflows for Interface Design*, Second International Workshop on Crowdsourcing in Software Engineering, May 2015, pages 45–46.

- C.102 T.D. LaToza and A. van der Hoek, *A Vision of Crowd Development*, Thirty-seventh International Conference on Software Engineering New Ideas and Emerging Results Track, May 2015, pages 563–566.
- C.101 T.D. LaToza, M. Chen, L. Jiang, M. Zhao, and A. van der Hoek, *Borrowing from the Crowd: A Study of Recombination in Software Design Competitions*, Thirty-seventh International Conference on Software Engineering, May 2015, pages 551–562.
- C.100 T.D. LaToza, W.B. Towne, C. Adriano, and A. van der Hoek, *Microtask Programming: Building Software with a Crowd*, Twenty-seventh Symposium on User Interface Software and Technology, October 2014, pages 43–54.
- C.99 B. Penzenstadler, B. Tomlinson, E. Baumer, M. Pufal, A. Raturi, D. Richardson, B. Cakici, R. Chitchyan, G. Da Costa, L. Dombrowski, M. Picha Edwardsson, E. Eriksson, X. Franch, G.R. Hayes, C. Herzog, W. Lohmann, M. Mahaux, A. Mavin, M. Mazmanian, S. Naye baziz, J. Norton, D. Pargman, D.J. Patterson, J.-M. Pierson, K. Roher, M. Silberman, K. Simonson, A. Torrance, and A. van der Hoek, *ICT4S 2029: What Will Be the Systems Supporting Sustainability in 15 Years?*, Second International Conference on ICT for Sustainability, August 2014, pages 30–39 (**best paper nomination**).
- C.98 N. Mangano, T.D. LaToza, M. Petre, and A. van der Hoek, *Supporting Informal Design with Interactive Whiteboards*, Conference on Human Factors in Computing Systems, April 2014, pages 331–340.
- C.97 T.D. LaToza, W.B. Towne, and A. van der Hoek, J.D. Herbsleb, *Crowd Development*, Sixth International Workshop on Cooperative and Human Aspects of Software Engineering, May 2013, pages 85–88.
- C.96 L. Martie and A. van der Hoek, *Toward Social-Technical Code Search*, Sixth International Workshop on Cooperative and Human Aspects of Software Engineering, May 2013, pages 101–104.
- C.95 T.D. LaToza, E. Shabani, and A. van der Hoek, *A Study of Architectural Decision Practices*, Sixth International Workshop on Cooperative and Human Aspects of Software Engineering, May 2013, pages 77–80.
- C.94 A. Motta, N. Mangano, and A. van der Hoek, *Lightweight Analysis of Software Design Models at the Whiteboard*, Fifth International Workshop on Modeling in Software Engineering, May 2013, pages 18–23.
- C.93 D. Loksa, N. Mangano, T.D. LaToza, and A. van der Hoek, *Enabling a Classroom Design Studio with a Collaborative Sketch Design Tool*, Thirty-third International Conference on Software Engineering Education Track, May 2013, pages 1073–1082.
- C.92 G. Bortis and A. van der Hoek, *PorchLight: a Tag-Based Approach to Bug Triaging*, Thirty-fifth International Conference on Software Engineering, May 2013, pages 342–351.
- C.91 N. Mangano, M. Dempsey, N. Lopez, and A. van der Hoek, *A Demonstration of a Distributed Software Design Sketching Tool*, Thirty-third International Conference on Software Engineering Demonstration Track, May 2011, pages 1028–1030.
- C.90 N. Lopez and A. van der Hoek, *The Code Orb – Supporting Contextualized Coding via At-a-Glance Views (NIER Track)*, Thirty-third International Conference on Software Engineering New Ideas and Emerging Results Track, May 2011, pages 824–827.
- C.89 G. Bortis and A. van der Hoek, *TeamBugs: A Collaborative Bug Tracking Tool*, Fourth International Workshop on Cooperative and Human Aspects of Software Engineering, May 2011, pages 69–71.
- C.88 A. van der Hoek and N. Lopez, *A Design Perspective on Modularity*, Tenth International Conference on Aspect-Oriented Software Development, March 2011, pages 265–280 (**keynote paper**).
- C.87 N. Lopez and A. van der Hoek, *An Agenda for Concern-Oriented Software Engineering*, FSE/SDP Workshop on Future of Software Engineering Research, November 2010, 5 pages.

- C.86 M. Grechanik, J.A. Jones, A. Orso, and A. van der Hoek, *Bridging Gaps between Developers and Testers in Globally-Distributed Software Development*, FSE/SDP Workshop on Future of Software Engineering Research, November 2010, 5 pages.
- C.85 N. Mangano, A. Baker, M. Dempsey, E. Navarro, and A. van der Hoek, *Software Design Sketching with Calico*, Twenty-fifth IEEE/ACM International Conference on Automated Software Engineering, September 2010, pages 23–32.
- C.84 S. Jansen, W. Buts, Sjaak Brinkkemper, and A. van der Hoek, *Benchmarking the Customer Configuration Updating Process of the International Product Software Industry*, International Conference on Software Process 2010, July 2010, pages 369–380.
- C.83 F. Servant, J.A. Jones, and A. van der Hoek, *CASI: Preventing Indirect Conflicts through a Live Visualization*, Third International Workshop on Cooperative and Human Aspects of Software Engineering, May 2010, pages 39–46.
- C.82 T. Proença, N. Moura, and A. van der Hoek, *On the Use of Emerging Design as a Basis for Knowledge Collaboration*, Third International Workshop on Knowledge Collaboration in Software Development, November 2009, pages 91–99.
- C.81 G. Bortis and A. van der Hoek, *DesignMinders: A Design Knowledge Collaboration Approach*, Third International Workshop on Knowledge Collaboration in Software Development, November 2009, pages 84–90.
- C.80 E. Nistor and A. van der Hoek, *Explicit Concern-Driven Development in ArchEvol*, Twenty-fourth IEEE/ACM International Conference on Automated Software Engineering, November 2009, pages 185–196.
- C.79 G. Bortis and A. van der Hoek, *DesignMinders: Preserving and Sharing Informal Software Design Knowledge*, Second Workshop on Knowledge Reuse, September 2009 (electronic proceedings, 8 pages).
- C.78 N. Lopéz, R. Casallas, and A. van der Hoek, *Issues in Mapping Change-Based Product Line Architectures to Configuration Management Systems*, Thirteenth International Software Product Line Conference, August 2009, pages 21–30.
- C.77 S.A Hendrickson, Y. Wang, A. van der Hoek, R.N. Taylor, and A. Kobsa, *Modeling PLA Variation of Privacy-Enhancing Personalized Systems*, Thirteenth International Software Product Line Conference, August 2009, pages 71–80.
- C.76 J.A. Jones, M. Grechanik, and A. van der Hoek, *Enabling and Enhancing Collaborations between Software Development Organizations and Independent Test Agencies*, Workshop on Cooperative and Human Aspects on Software Engineering, May 2009, pages 56–59.
- C.75 A. Baker and A. van der Hoek, *An Experience Report on the Design and Delivery of Two New Software Design Courses*, Fortieth ACM Technical Symposium on Computer Science Education, March 2009, pages 319–323.
- C.74 E. Navarro and A. van der Hoek, *Multi-Site Evaluation of SimSE*, Fortieth ACM Technical Symposium on Computer Science Education, March 2009, pages 326–330.
- C.73 A. Sarma, D. Redmiles, and A. van der Hoek, *Empirical Evidence of the Benefits of Workspace Awareness in Software Configuration Management*, Sixteenth ACM SIGSOFT International Symposium on the Foundations of Software Engineering, November 2008, pages 113–123.
- C.72 R. Ripley and A. van der Hoek, *Decisions and Rationale during the Evolution of a Coordination Infrastructure*, Workshop on Infrastructure for Research in Collaborative Software Engineering, November 2008 (electronic proceedings, 4 pages).

- C.71 N. Mangano, A. Baker, M. Dempsey, E. Navarro, and A. van der Hoek, *Calico: A Tool for Early Software Design Sketching*, Workshop on Sketch Tools for Diagramming, September 2008, pages 51–56.
- C.70 N. Mangano, A. Baker, and A. van der Hoek, *Calico: A Prototype Sketching Tool for Modeling in Early Design*, Second International Workshop on Modeling in Software Engineering, May 2008, pages 63–68.
- C.69 G. Bortis and A. van der Hoek, *Software Pre-Patterns as Architectural Knowledge*, Third International Workshop on Sharing and Reusing Architectural Knowledge, May 2008, pages 19–22.
- C.68 S.A. Hendrickson, S. Subramanian, and A. van der Hoek, *Multi-Tiered Design Rationale for Change Set Based Product Line Architectures*, Third International Workshop on Sharing and Reusing Architectural Knowledge, May 2008, pages 41–44.
- C.67 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*, First International Workshop on Cooperative and Human Aspects of Software Engineering, May 2008, pages 1–4.
- C.66 A. Sarma, G. Bortis, and A. van der Hoek, *Towards Supporting Awareness of Indirect Conflicts across Software Configuration Management Workspaces*, Twenty-second IEEE/ACM International Conference on Automated Software Engineering, November 2007, pages 94–103.
- C.65 A. Sarma, D. Redmiles, and A. van der Hoek, *A Comprehensive Evaluation of Workspace Awareness in Software Configuration Management Systems*, 2007 IEEE Symposium on Visual Languages and Human-Centric Computing, September 2007, pages 23–26.
- C.64 I. Almeida da Silva, M. Alvim, R. Ripley, A. Sarma, C.M.L. 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 14–19.
- C.63 E. Oh Navarro and A. van der Hoek, *Comprehensive Evaluation of an Educational Software Engineering Simulation Environment*, Twentieth Conference on Software Engineering Education and Training, July 2007, pages 195–202.
- C.62 R. Ripley, A. Sarma, and A. van der Hoek, *A Visualization for Software Project Awareness and Evolution*, Fourth IEEE International Workshop on Visualizing Software for Understanding and Analysis, June 2007, pages 137–144.
- C.61 S.A. Hendrickson and A. van der Hoek, *Modeling Product Line Architectures through Change Sets and Relationships*, Twenty-ninth International Conference on Software Engineering, May 2007, pages 189–198.
- C.60 I. Almeida da Silva, P. Chen, C. Van der Westhuizen, and A. van der Hoek, *Lighthouse: Coordination through Emerging Design*, OOPSLA Eclipse Technology Exchange Workshop, October 2006, pages 11–15.
- C.59 A. Sarma and A. van der Hoek, *Towards Awareness in the Large*, First International Conference on Global Software Engineering, October 2006, pages 127–131.
- C.58 S.A. Hendrickson, B. Jett, and A. van der Hoek, *Layered Class Diagrams: Supporting the Design Process*, Ninth International Conference on Model Driven Engineering Languages and Systems, October 2006, pages 722–736.
- C.57 L.G.P. Murta, A. van der Hoek, and C.M.L. Werner, *ArchTrace: Policy-Based Support for Managing Evolving Architecture-to-Implementation Traceability Links*, Twenty-first IEEE/ACM International Conference on Automated Software Engineering, September 2006, pages 135–144 (**ACM SIGSOFT Distinguished Paper Award**).

- C.56 Y. Wang, A. Kobsa, A. van der Hoek, and J. White, *PLA-based Runtime Dynamism in Support of Privacy-Enhanced Web Personalization*, Tenth International Software Product Line Conference, August 2006, pages 151–160.
- C.55 L. Xu, S.A. Hendrickson, E. Hettwer, H. Ziv, A. van der Hoek, and D.J. Richardson, *Towards Supporting the Architecture Design Process through Evaluation of Design Alternatives*, Second International Workshop on the Role of Software Architecture for Testing and Analysis, July 2006, pages 38–44.
- C.54 C. Van der Westhuizen, P. Chen, and A. van der Hoek, *Emerging Design: New Roles and Uses for Abstraction*, Workshop on the Role of Abstraction in Software Engineering: Organizational, Managerial and Cognitive Perspectives, May 2006 (electronic proceedings, 6 pages).
- C.53 E. Nistor and A. van der Hoek, *Concern Highlight: A Tool for Concern Exploration and Visualization*, Workshop on Linking Aspect Technology and Evolution, March 2006 (electronic proceedings, 5 pages).
- C.52 D. Carrington, A. Baker, and A. van der Hoek, *It's All in the Game: Teaching Software Process Concepts*, Frontiers in Education, October 2005, pages T1A1–T1A6.
- C.51 E. Nistor, J. Erenkrantz, S. Hendrickson, and A. van der Hoek, *ArchEvol: Versioning Architectural-Implementation Relationships*, Twelfth International Workshop on Software Configuration Management, September 2005, pages 99–111.
- C.50 J.C. Georgas, A. van der Hoek, and R.N. Taylor, *Architectural Runtime Configuration Management in Support of Dependable Self-Adaptive Software*, Workshop on Architecting Dependable Systems, May 2005, pages 48–53.
- C.49 T. Birkhölzer, E. Oh Navarro, and A. van der Hoek, *Teaching by Modeling instead of by Models*, Sixth International Workshop on Software Process Simulation and Modeling, May 2005 (electronic proceedings, 4 pages).
- C.48 A. van der Hoek, D.G. Kay, and D.J. Richardson, *A B.S. Degree in Informatics: Contextualizing Software Engineering Education*, Twenty-seventh International Conference on Software Engineering (Education Track), May 2005, pages 641–642.
- C.47 E. Oh Navarro and A. van der Hoek, *Scaling up: How Thirty-two Students Collaborated and Succeeded in Developing a Prototype Software Design Environment*, Eighteenth Conference on Software Engineering Education & Training, February 2005, pages 155–162.
- C.46 E. Oh Navarro and A. van der Hoek, *Design and Evaluation of an Educational Software Process Simulation Environment and Associated Model*, Eighteenth Conference on Software Engineering Education & Training, February 2005, pages 25–32.
- C.45 D.G. Kay, A. van der Hoek, and D.J. Richardson, *Informatics: A Focus on Computer Science in Context*, SIGCSE 2005 Technical Symposium on Computer Science Education, February 2005, pages 551–555.
- C.44 A. Sarma, A. van der Hoek, and L.-T. Cheng, *A Need-Based Collaboration Classification Framework*, Workshop on Eclipse as a Vehicle for CSCW Research, November 2004, pages 16–20 (also available as IBM Technical Report RC23339).
- C.43 R. Ripley, R. Yasui, A. Sarma, and A. van der Hoek, *Workspace Awareness in Application Development*, OOPSLA Eclipse Technology Exchange Workshop, October 2004, pages 17–21.
- C.42 A. Baker, P. Chen, C. Van der Westhuizen, and A. van der Hoek, *A Call for the Use of Display Technology to Support Software Development*, Workshop on Ubiquitous Display Environments, September 2004.
- C.41 E. Oh Navarro and A. van der Hoek, *SimSE: An Interactive Simulation Game for Software Engineering Education*, IASTED Conference on Computers and Advanced Technology in Education, August 2004, pages 12–17 (**best paper nomination**).

- C.40 A. van der Hoek, D. Redmiles, P. Dourish, A. Sarma, R. Silva 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.
- C.39 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.
- C.38 E. Oh Navarro and A. van der Hoek, *Software Process Modeling for an Interactive, Graphical, Educational Software Engineering Simulation Game*, Fifth International Workshop on Software Process Simulation and Modeling, May 2004, pages 171–176.
- C.37 C. Lüer and A. van der Hoek, *JPlay: User-Centric Deployment Support in a Component Platform*, Second International Working Conference on Component Deployment, May 2004, pages 190–204.
- C.36 R. van der Lingen and A. van der Hoek, *An Experimental, Pluggable Infrastructure for Modular Configuration Management Policy Composition*, Twenty-Sixth International Conference on Software Engineering, May 2004, pages 573–582.
- C.35 A. Baker, E. Oh Navarro, and A. van der Hoek, *Teaching Software Engineering using Simulation Games*, International Conference on Simulation in Education, January 2004, pages 9–14.
- C.34 M. Critchlow, K. Dodd, J. Chou, and A. van der Hoek, *Refactoring Product Line Architectures*, First International Workshop on Refactoring: Achievements, Challenges, and Effects, November 2003, pages 23–26.
- C.33 A. Sarma and A. van der Hoek, *Visualizing Parallel Workspace Activities*, IASTED International Conference on Software Engineering and Applications, November 2003, pages 435–440.
- C.32 P. Chen, M. Critchlow, A. Garg, C. Van der Westhuizen, and A. van der Hoek, *Differencing and Merging within an Evolving Product Line Architecture*, Fifth International Workshop on Product Family Engineering, November 2003, pages 269–281.
- C.31 A. Garg, M. Critchlow, P. Chen, C. Van der Westhuizen, and A. van der Hoek, *An Environment for Managing Evolving Product Line Architectures*, International Conference on Software Maintenance 2003, September 2003, pages 358–367.
- C.30 A. van der Hoek, E. Dincel, and N. Medvidovic, *Using Service Utilization Metrics to Assess the Structure of Product Line Architectures*, Ninth IEEE Software Metrics Symposium, September 2003, pages 298–308.
- C.29 R. van der Lingen and A. van der Hoek, *Dissecting Configuration Management Policies*, Software Configuration Management: ICSE Workshops SCM 2001 and SCM 2003 Selected Papers, May 2003, pages 177–190.
- C.28 S. Sowrirajan and A. van der Hoek, *Managing the Evolution of Distributed and Inter-related Components*, Software Configuration Management: ICSE Workshops SCM 2001 and SCM 2003 Selected Papers, May 2003, pages 217–230.
- C.27 H. Muccini and A. van der Hoek, *Towards Testing Product Line Architectures*, International Workshop on Test and Analysis of Component Based Systems, April 2003, pages 111–121.
- C.26 A. Baker, E. Oh Navarro, and A. van der Hoek, *Problems and Programmers: An Educational Software Engineering Card Game*, Twenty-fifth International Conference on Software Engineering, May 2003, pages 614–619.
- C.25 A. Sarma, Z. Noroozi, and A. van der Hoek, Palantír: *Raising Awareness among Configuration Management Workspaces*, Twenty-fifth International Conference on Software Engineering, May 2003, pages 444–453.

- C.24 A. Baker, E. Oh Navarro, and A. van der Hoek, *An Experimental Card Game for Teaching Software Engineering*, Sixteenth International Conference on Software Engineering Education and Training, March 2003, pages 216–223 (**selected as one of best papers, leading to J.3**).
- C.23 E. Dashofy, A. van der Hoek, and R.N. Taylor, *Towards Architecture-Based Self-Healing Systems*, First ACM SIGSOFT Workshop on Self-Healing Systems, November 2002, pages 21–26.
- C.22 P. Dourish and A. van der Hoek, *Émigré: Metalevel Architecture and Migratory Work*, Fourth International Symposium on Human Computer Interaction with Mobile Devices, September 2002, pages 281–285.
- C.21 C. Van der Westhuizen and A. van der Hoek, *Understanding and Propagating Architectural Changes*, Third Working IEEE/IFIP Conference on Software Architecture, August 2002, pages 95–109.
- C.20 A. Sarma and A. van der Hoek, *Palantír: Coordinating Distributed Workspaces*, Workshop on Cooperative Supports for Distributed Software Engineering Processes, August 2002, pages 1093–1097.
- C.19 E. Dashofy, A. van der Hoek, and R.N. Taylor, *An Infrastructure for the Rapid Development of XML-Based Architecture Description Languages*, Twenty-fourth International Conference on Software Engineering, May 2002, pages 266–276.
- C.18 A. Sarma and A. van der Hoek, *Palantír: Increasing Awareness in Distributed Software Development*, 2002 ICSE Workshop on Global Software Development, May 2002, pages 28–32.
- C.17 A. van der Hoek, *Integrating Configuration Management and Software Deployment*, Working Conference on Complex and Dynamic Systems Architecture, December 2001, pages 230–233.
- C.16 E. Dincel, N. Medvidovic, and A. van der Hoek, *Measuring Product Line Architectures*, Fourth International Workshop on Product Family Engineering, October 2001, pages 346–352.
- C.15 E. Dashofy and A. van der Hoek, *Representing Product Family Architectures in an Extensible Architecture Description Language*, Fourth International Workshop on Product Family Engineering, October 2001, pages 330–341.
- C.14 A. van der Hoek, M. Mikic-Rakic, R. Roshandel, and N. Medvidovic, *Taming Architectural Evolution*, Eighth European Software Engineering Conference with the Ninth International Symposium on the Foundations of Software Engineering, September 2001, pages 1–10 (**selected as one of best papers, leading to J.5**).
- C.13 E. Dashofy, A. van der Hoek, and R.N. Taylor, *A Highly-Extensible, XML-Based Architecture Description Language*, Working IEEE/IFIP Conference on Software Architecture, September 2001, pages 103–112.
- C.12 C. Lüer, D. Rosenblum, and A. van der Hoek, *The Evolution of Software Evolvability*, International Workshop on the Principles of Software Evolution, September 2001, pages 131–134.
- C.11 E. Oh and A. van der Hoek, *Adapting Game Technology to Support Individual and Organizational Learning*, 2001 International Conference on Software Engineering and Knowledge Engineering, June 2001, pages 347–354.
- C.10 E. Oh and A. van der Hoek, *Challenges in Using an Economic Cost Model for Software Engineering Simulation*, Third International Workshop on Economics-Driven Software Engineering Research, May 2001, pages 45–49 (reprinted in *Projects & Profits*, 4 (8), pages 43–50).
- C.9 A. van der Hoek, *Capturing Product Line Architectures*, Fourth International Software Architecture Workshop, June 2000, pages 95–99.
- C.8 A. van der Hoek, *Configuration Management and Open Source Projects*, Third Workshop on Software Engineering over the Internet, June 2000, pages 41–45.

- C.7 A. van der Hoek, D. Heimbigner, and A.L. Wolf, *Versioned Software Architecture*, Third International Software Architecture Workshop, November 1998, pages 73–76.
- C.6 A. van der Hoek, D. Heimbigner, and A.L. Wolf, *System Modeling Resurrected*, Eighth International Symposium on System Configuration Management, July 1998, pages 140–145.
- C.5 A. van der Hoek, R.S. Hall, D. Heimbigner, and A.L. Wolf, *Software Release Management*, Sixth European Software Engineering Conference with the Fifth ACM SIGSOFT Symposium on the Foundations of Software Engineering, September 1997, pages 159–175.
- C.4 R.S. Hall, D. Heimbigner, A. van der Hoek, and A.L. Wolf, *An Architecture for Post-Development Configuration Management in a Wide Area Network*, Seventeenth International Conference on Distributed Computing Systems, May 1997, pages 269–278.
- C.3 A. van der Hoek, D. Heimbigner, and A.L. Wolf, *A Generic, Peer-to-Peer Repository for Distributed Configuration Management*, Eighteenth International Conference on Software Engineering, March 1996, pages 308–317.
- C.2 A. van der Hoek, D. Heimbigner, and A.L. Wolf, *Does Configuration Management Have a Future?*, Software Configuration Management: ICSE SCM–4 and SCM–5 Workshops Selected Papers, May 1995, pages 305–309.
- C.1 R.H. Byrd, E. Eskow, A. van der Hoek, R.B. Schnabel, and K.P.B. Oldenkamp, *A Parallel Global Optimization Method for Solving Molecular Cluster and Polymer Conformation Problems*, Seventh SIAM Conference on Parallel Processing for Scientific Computing, February 1995, pages 72–77.

BOOK CHAPTERS

- BC.8 G. Pereira, R. Prikladnicki, V. Jackson, A. van der Hoek, L. Fortes, and I. Macaubas, *Early Results from a Study of GenAI Adoption in a Large Brazilian Company: The Case of Globo*, A. Nguyen-Duc, P. Abrahamsson, and F. Khomh (Eds), *Generative AI for Effective Software Development*, Springer, 2024.
- BC.7 A. Baker and A. van der Hoek, *Ideas, Subjects, and Cycles as Lenses for Understanding the Software Design Process*, M. Petre and A. van der Hoek (Eds), *Software Designers in Action: A Human-Centric Look at Design Work*, CRC Press, 2013 (reprint from J.14).
- BC.6 T. Proença, N. Moura, and A. van der Hoek, *On the Use of Emerging Design as a Basis for Knowledge Collaboration*, K. Nakakoji, Y. Murakami, and E. McCreedy (Eds), *New Frontiers in Artificial Intelligence: JSAI-isAI 2009 Workshops, LENLS, JURISIN, KCSD, LLLL*, Springer-Verlag, 2010, pages 124–134.
- BC.5 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*, I. Mistrik, J. Grundy, J. Whitehead, and A. van der Hoek (Eds), *Collaborative Software Engineering*, Springer-Verlag, 2010, pages 153–178.
- BC.4 E. Navarro and A. van der Hoek, *On the Role of Learning Theories in Furthering Software Engineering Education*, H.J.C. Ellis, S.A. Demurjian, and J.F. Naveda (Eds), *Software Engineering: Effective Teaching and Learning Approaches and Practices*, IGI Global, 2008, pages 38–59.
- BC.3 R.N. Taylor and A. van der Hoek, *Software Design and Architecture: The Once and Future Focus of Software Engineering*, L. Briand and A.L. Wolf (Eds), *Future of Software Engineering 2007*, IEEE Computer Society Press, May 2007, 226–243.
- BC.2 A. van der Hoek, D.G. Kay, and D.J. Richardson, *Informatics: A Novel, Contextualized Approach to Software Engineering Education*, P. Inverardi and M. Jazayeri (Eds), *Software Engineering Education in*

the Modern Age: Challenges and Possibilities, PostProceedings of ICSE '05 Education and Training Track, Lecture Notes in Computer Science 4309, Springer, November 2006, pages 147–165.

- BC.1 R.H. Byrd, E. Eskow, A. van der Hoek, R.B. Schnabel, C.-S. Shao, and Z. Zou, *Global Optimization Methods for Protein Folding Problems*, DIMACS Series in Discrete Mathematics and Theoretical Computer Science – Global Minimization of Nonconvex Energy Functions: Molecular Conformation and Protein Folding, 1995, pages 29–39.

OTHER PUBLICATIONS

- O.44 V. Jackson, A. van der Hoek, R. Prikladnicki, and Kuldeep Singh, *Introduction to the Special Issue on Creativity in Software Engineering*, IEEE Software, 24(3):2025, pages 27–32.
- O.43 Y. Cai, M. Chaudron, E. Kang, and A. van der Hoek, *Report on the 1st International Workshop on Designing Software (Designing 2024)*, ACM SIGSOFT Software Engineering Notes, 49(3), pages 32–34.
- O.42 V. Jackson, B. Vasilescu, D. Russo, P. Ralph, M. Izadi, R. Prikladnicki, S. D’Angelo, S. Inman, A. Lisboa, and A. van der Hoek, *Creativity, Generative AI, and Software Development*, Software Engineering in 2030 Workshop, July 2024 (8 pages).
- O.41 B. Oewel, N.-Y. Cheng, I. Ahmed, S. Schueller, M. Reddy, and A. van der Hoek, *Opportunity for Promoting Developers’ Wellbeing Through Software Tools Redesign*, Office Wellbeing by Design: Don’t Stand for Anything Less Workshop, May 2024 (5 pages).
- O.40 V. Jackson, A. van der Hoek, R. Prikladnicki, C. Ebert, *Collaboration Tools for Developers*, IEEE Software, 39(2):2022, pages 7–15 (invited column).
- O.39 H. Freedman, D. Schaefer, A. van der Hoek, and B. Tomlinson, *Node Position in a Group-Constructed Knowledge Network as an Indicator of Contributor Accuracy*, Forty-second International Social Network Conference, July 2022 (abstract).
- O.38 H. Freedman, B. Tomlinson, A. Torrance, and A. van der Hoek, *A Measure of Species Charisma*, Ecological Society of America Annual Meeting, August 2021 (late breaking poster).
- O.37 H. Freedman, A. van der Hoek, and B. Tomlinson, *Student-Generated Knowledge Graphs about Sustainability*, International Symposium for Sustainable Systems and Technology, June 2021 (1 page).
- O.36 M. Petre, A. van der Hoek, and D. Bowers, *Software Design as Multiple Contrasting Dialogues*, Psychology of Programming Interest Group Thirtieth Annual Workshop, August 2019 (8 pages).
- O.35 M. Petre and A. van der Hoek, *Beyond Coding: toward Software Development Expertise*, ACM Crossroads, October 2018, pages 22–26.
- O.34 L. Briand and A. van der Hoek, *The 36th ICSE, 2014: “A Focus on the Review Process”*, 40 Editions of ICSE: the Ruby Anniversary Celebration, May 2018, 187–191.
- O.33 N. Nelson, A. Sarma, and A. van der Hoek, *Towards an IDE to Support Programming as Problem Solving*, Psychology of Programming Interest Group Twenty-eighth Annual Workshop, July 2017.
- O.32 T.D. LaToza and A. van der Hoek, *Should Software Developers Be Replaced by the Crowd*, IEEE Software Blog, March 27, 2016 (invited).
- O.31 L. Martie and A. van der Hoek, *Context in Code Search*, First International Workshop on Context in Software Development, November 2014.

- O.30 T.D. LaToza, W.B. Towne, and A. van der Hoek, *Harnessing the Crowd: Decontextualizing Software Work*, First International Workshop on Context in Software Development, November 2014.
- O.29 L. Briand and A. van der Hoek, *Insights and Lessons Learned from Analyzing ICSE 2015 Survey and Review Data*, April 2014.
- O.28 T.D. LaToza, E. Chiquillo, W.B. Towne, C. Adriano, and A. van der Hoek, *CrowdCode: A Platform for Crowd Development*, CrowdConf, October 2013.
- O.27 A. Baker, H. Ossher, A. van der Hoek, and M. Petre, *Guest Editors' Introduction: Studying Professional Software Design*, IEEE Software, 29(1): 2012, pages 38–33.
- O.26 N. Mangano and A. van der Hoek, *A Tool for Distributed Software Design Collaboration*, ACM 2012 Conference on Computer Supported Cooperative Work Companion, February 2012, pages 45–46 (video).
- O.25 M. Petre, A. van der Hoek, and A. Baker, *Editorial*, Design Studies, 31(6): 2010, pages 533–544.
- O.24 A. Baker and A. van der Hoek, *The Software Design Process as a Series of Rotating Subject Pairs*, Workshop on Studying Professional Software Design, February 2010.
- O.23 N. Mangano and A. van der Hoek, *Softmodes: A Transition Tool between the Informal and Formal*, Workshop on Flexible Modeling Tools, November 2009.
- O.22 B. Al-Ani, D. Redmiles, and A. van der Hoek, *Sense-Making and Mindfulness of Interdependencies in Virtual Organizations*, CSCW Workshop on Supporting Distributed Team Work, November 2008.
- O.21 E. Navarro and A. van der Hoek, *SimSE: A Simulation Approach to Teaching Software Engineering Processes*, NSF Grantees Poster Session, August 2008.
- O.20 A. Sarma, J. Herbsleb, and A. van der Hoek, *Challenges in Measuring, Understanding, and Achieving Social-Technical Congruence*, Workshop on Social-Technical Congruence, May 2008 (available as CMU Technical Report CMU-ISR-08-106).
- O.19 N. Mangano, A. Baker, and A. van der Hoek, *ArchTrace: VBoard: A Sketch Based Approach to Abstract Design*, Fourth Eurographics Workshop on Sketch-Based Interfaces and Modeling, August 2007.
- O.18 L.G.P. Murta, A. van der Hoek, and C.M.L. Werner, *ArchTrace: A Tool for Keeping in Sync Architecture and its Implementation*, Twentieth Brazilian Symposium on Software Engineering Tools Session, October 2006, pages 127–132 (**first prize in the tools session, out of 25 accepted tools**).
- O.17 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*, Human-Computer Interaction Consortium, 2006 Winter Workshop, February 2006.
- O.16 A. van der Hoek, *Dependability of Component-Based Self-Adaptive Systems*, Twelfth Monterey Workshop – Networked Systems: Realization of Reliable Systems on Top of Unreliable Networked Platforms, September 2005.
- O.15 D.G. Kay, A. van der Hoek, and D.J. Richardson, *Extending Undergraduate CS Programs with Informatics: Emphasizing Software and System Design in Context*, Tenth Annual Conference on Innovation and Technology in Computer Science Education, July 2005, page 367.
- O.14 E. Oh Navarro and A. van der Hoek, *SimSE: An Educational Simulation Game for Teaching the Software Engineering Process*, Ninth Annual Conference on Innovation and Technology in Computer Science Education, June 2004, page 233.
- O.13 C. Lüer and A. van der Hoek, *Architecture-Based Program Compaction*, Online Proceedings of the First Workshop on Reuse in Constrained Environments, October 2003.

- O.12 A. Baker, E. Oh Navarro, and A. van der Hoek, *Introducing Problems and Programmers, an Educational Software Engineering Card Game*, Software Engineering Notes, March 2003, pages 7–8.
- O.11 E. Oh Navarro and A. van der Hoek, *Towards Game-Based Simulation as a Method of Teaching Software Engineering*, Thirty-second ASEE/IEEE Frontiers in Education Conference, November 2002, page S2G-13.
- O.10 J. Estublier, D. Leblang, G. Clemm, R. Conradi, A. van der Hoek, W. Tichy, D. Wiborg-Weber, *Impact of the Research Community on the Field of Software Configuration Management*, Software Engineering Notes, 27(5): 2002, pages 31–39.
- O.9 C. Lüer and A. van der Hoek, *Composition Environments for Deployable Software Components*, Technical Report UCI-ICS-02-18, August 2002.
- O.8 J. Estublier, D. Leblang, G. Clemm, R. Conradi, A. van der Hoek, W. Tichy, D. Wiborg-Weber, *Impact of the Research Community for the Field of Software Configuration Management*, Twenty-fourth International Conference on Software Engineering, May 2002, pages 643–644.
- O.7 A. van der Hoek, *Representing Product Line Architectures*, Online Proceedings of the 2002 Ground Systems Architecture Workshop, March 2002.
- O.6 J. Feller, B. Fitzgerald, and A. van der Hoek, *Open Source Software Engineering*, IEE Proceedings Software, 149(1):2002, pages 1–2.
- O.5 A. van der Hoek, *ICSE 2002 Workshop on Software Configuration Management*, ACM Software Engineering Notes, November 2001, page 57.
- O.4 J. Feller, B. Fitzgerald, and A. van der Hoek, *Making Sense of the Bazaar: First Workshop on Open Source Software Engineering*, ACM Software Engineering Notes, November 2001, pages 51–52.
- O.3 E. Oh and A. van der Hoek, *Teaching Software Engineering through Simulation*, Online Proceedings of the Workshop on Education and Training, July 2001.
- O.2 A. van der Hoek, *A Generic, Distributed Repository for Configuration Management Policy Programming (Ph.D. Dissertation)*, January 2000, 262 pages.
- O.1 K.K. Gifford, M. Deeds, A. van der Hoek, F. Henning, J. Freeman, G. Haussman, S. Kuzminskiy, and S. Stoller, *Robocar: Software, Hardware, and Mechanical Design Issues for the University of Colorado Autonomous Rover Vehicle*, SPIE Photonics East’95 Symposium, October 1995, pages 228–238.

FUNDING

- G.45 UCI Beall Applied Innovation – *The Daily Smirk: A Novel Self and Peer Assessment Tool for Improving Student Teamwork* (lead PI with co-PIs Y. Lu), with a budget of \$99,980 (2025).
- G.44 NSF DRL – AI-Enhanced Personalization for Large-Scale University Education in Sustainability Science (co-PI with lead PIs B. Tomlinson and co-PIs R. Black and J. Ferguson), with a budget of \$900,000 (2024).
- G.43 UCI Donald Bren School of Information and Computer Sciences Research Award – *The Daily Smirk: Lightweight, High-Frequency, Contextualized Peer Assessment to Address Student Team Issues On-the-Go* (lead PI with co-PIs M. Bietz and S. Gago-Masague), with a budget of \$75,000 (2024).
- G.42 UCI Office of the Vice Provost of Teaching and Learning – *Generative AI to Improve Student Success Funding Agreement* (co-PI with lead-PI B. Tomlinson and co-PIs R. Black and J. Ferguson), with a budget of \$10,000 (2023).

- G.41 NSF IIS – FW-HTF-RL: Improving the Mental Well-being and Productivity of the Software Development Workforce of Tomorrow (lead PI with co-PIs M. Reddy, S. Schueller, and I. Ahmed), with a budget of \$1,644,486 (2023).
- G.40 NSF CCF – Collaborative Research:SHF:Small: Distributed Fragmented Software Design Meetings (lead PI with co-PI J. Burge), with a budget of \$467,236 (2022).
- G.39 NSF IUSE – Improving General Education Sustainability Science: A Pilot Study in Engaging Students with Complex Topics through Knowledge Graphs (co-PI with lead PI B. Tomlinson), with a budget of \$300,000 (2021).
- G.38 UCI Donald Bren School of Information and Computer Sciences Exploration Grant – The Dark Side of Software Engineering: Stimulant Use among Software Professionals (lead PI with co-PI I. Ahmed), with a budget of \$75,000 (2020).
- G.37 UCI Donald Bren School of Information and Computer Sciences Exploration Grant – Institute for Computationally-Enabled Translational Sustainability (co-PI with lead PI B. Tomlinson and co-PIs K. Squire, C. Steinkuehler, G. Olson, J. Olson, and D. Stokols), with a budget of \$75,000 (2020).
- G.36 Bren School CORCL (sole PI), with a budget of \$5,000 (2020).
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- G.33 NSF CCF – SHF:Large: CrowdProgramming (lead PI with co-PI T.D. LaToza), with a budget of \$1,403,377 (2014).
- G.32 NSF CCF – SHF:Small: Social-Technical Code Search (sole PI), with a budget of \$300,000 (2013).
- G.31 NSF REU Supplement: Large-Scale Human-Centered Coordination Systems to Support Interdependent Tasks in Context (lead-PI with co-PI David Redmiles), with a budget of \$16,000 (2012).
- G.30 NSF CCF – HCC:Large:Collaborative Research: Large-Scale Human-Centered Coordination Systems to Support Interdependent Tasks in Context (co-PI with lead PI Jim Herbsleb and co-PIs Linda Argote, Laura Dabbish, David Redmiles, and Anita Sarma), with a budget of \$475,542 (2011).
- G.29 NSF CCF – SHF:HCC:Small: Software Design Sketching (sole PI), with a budget of \$500,000 (2011).
- G.28 Microsoft Software Engineering Innovation Foundation – Calico: Software Design Sketching with a Cloud-based Software Whiteboard (sole PI), with a budget of \$40,000 (2011).
- G.27 NSF DUE – Calico: Improving Software Design Education with Tool Support, Design Exercises, and Course Modules for Sketch-Based, Continuous Design Practice and Reflection (sole PI), with a budget of \$499,873 (2009).
- G.26 NSF CISE – Workshop Proposal: Studying Experts Engaged in Early Software Design (sole PI), with a budget of \$68,793 (2008).
- G.25 Various UCI – one Smith Faculty Seed Funding and one Bren School COCLLR (sole PI), with a budget of \$8,700 (2008).
- G.24 Accenture – An Accenture–UC Irvine Research Partnership in Coordination Technology (lead PI with co-PIs Walt Scacchi, David Redmiles, and Ban Al-Ani), with a budget of \$50,000 (2008).

- G.23 UC MEXUS-CONACYT – A methodology and language for designing aspect-oriented software product lines (sole PI), with a budget of \$9,000 (2007).
- G.22 Intel – Investigating Advanced Concepts, Techniques, and Tools for Visualizing Socio-Technical Interaction Networks (co-PI with lead PI Walt Scacchi and co-PIs David Redmiles and Ban Al-Ani), with a budget of \$44,600 (2007).
- G.21 Hitachi Software Engineering Co., Ltd. – A Hitachi–UC Irvine Partnership in Display and Interaction Intensive Visualizations for Software Engineering Research, Practice, and Education (lead PI with co-PIs David Redmiles, Walt Scacchi, and Ban Al-Ani), with a budget of \$8,500 (2007).
- G.20 HP Teaching for Technology Grant Initiative – Learning How to Design Software as Software Should Be Designed: A Studio-like, Collaborative Approach to Software Design Education (lead PI with co-PIs David Redmiles, David Kay, and De Gallow), with a budget of \$68,000 (2007).
- G.19 NSF DUE – SimSE: Expanding a Proof-of-Concept Software Engineering Simulation Environment into a Comprehensive Classroom Approach for Educating Students in the Software Development Process (sole PI), with a budget of \$450,000 (2006).
- G.18 UC Irvine Donald Bren School of Information and Computer Sciences CRIA – Acquisition of an Interactive Whiteboard to Jumpstart Research in High-Tech Software Engineering (lead PI with co-PIs D.F. Redmiles and F. Kuester), with a budget of \$19,500 (2006).
- G.17 NSF CISE – Student Travel Support for ACM SIGSOFT 2006/FSE 14 Inspirations: A Ph.D. Orientation for Undergraduate and M.S. Students (lead PI with co-PI T. Humphries), with a budget of \$10,000 (2006).
- G.16 NSF DUE – EASEL: Improving Software Design Education with A Layered Design Environment (sole PI), with a budget of \$125,000 (2006).
- G.15 IBM Technology Fellowship – Dual Monitor Side-by-Side Eclipse Views for Team Coordination (sole PI), with a budget of \$50,000 (2006).
- G.14 NSF IIS – Unifying Formal and Informal Collaboration through Continuous Coordination (co-PI with lead PI D. Redmiles), with a budget of \$681,402 (2005).
- G.13 NSF ATE – Collaborative Project: C-SPIRIT: Coastline – Seamless Articulation Program for Informatics Recruitment and Intersegmental Transfer (lead PI with co-PI D. Richardson), with a budget of \$133,570 (2005).
- G.12 IBM Innovation Grant – Lighthouse: Improving Team Coordination through an Eclipse Plug-In for Emerging Design-Based Awareness (sole PI), with a budget of \$27,000 (2005).
- G.11 NASA JPL – An Extensible Architectural Technology for Managing Complex Space Data Systems (co-PI with lead PI Richard N. Taylor and co-PI Neno Medvidovic), with a budget of \$40,000 (2004).
- G.10 Boeing – Software Architecture-based Development of Product Lines for the Tactical Radio Domain (co-PI with lead PI Richard N. Taylor and co-PI Neno Medvidovic), with a budget of \$107,500 (2004).
- G.9 NSF DUE – SimSE: An Educational Simulation Game for Teaching Software Engineering Processes (sole PI), with a budget of \$74,294 (2004).
- G.8 IBM Eclipse Innovation Grant – Palantír-Eclipse: Improving Developer Coordination in Software Engineering Courses (sole PI), with a budget of \$25,000 (2004).
- G.7 U.S. Department of Education – A Bachelor of Science in Informatics: Establishing an Engaging, Problem-Based, Creativity-Oriented Computer Science Undergraduate Degree Program (lead PI with co-PI D. Richardson), with a budget of \$448,303 (2003).

- G.6 Various UCI – one faculty desktop innovation grant, one CORCLR, three UROP, four SURP, two faculty research and travel grants (co-PI and advisor), with a total budget of \$27,791 (2000-2003).
- G.5 NSF ITR – An Integrated Social and Technical Approach to the Development of Distributed, Inter-Organizational Applications (co-PI with lead PI R.N. Taylor and co-PIs P. Dourish, A. Kobsa, G. Mark, D. Redmiles, D. Richardson, W. Scacchi), with a budget of \$1,800,000 (2002).
- G.4 NSF CAREER – Continuous Configuration Management of Component-Based Software (sole PI), with a budget of \$294,942 (2001).
- G.3 AFOSR – Specification and Dynamic Checking of Composition Constraints in Distributed Component-Based Systems (sole PI, replacing on leave PI D. Rosenblum), with a budget of \$34,000 (2001).
- G.2 DARPA DASADA – Gauging the Reconfigurability of Component-Based Systems (sole PI on subcontract from University of Colorado, Boulder), with a budget of \$58,634 (2000).
- G.1 DARPA DASDA – Proteus: Assessment and Adaptation through Dynamic Architecture Technology (co-PI with lead PI R.N. Taylor and co-PI D. Redmiles), with a budget of \$1,400,000 (2000).

PRESENTATIONS

- P.99 November 2025, *UC San Diego*, San Diego, CA
- P.98 July 2024, *The Open University*, Milton Keynes, United Kingdom
- P.97 March 2024, *Colorado College*, Colorado Springs, CO
- P.96 August 2023, *Future University*, Hakodate, Japan, **(invited presentation)**
- P.95 July 2023, *CMU Design Discussions*, Pittsburgh, PA **(invited presentation)**
- P.94 October 2022, *ACM SIGSOFT Latin American School on Software Engineering*, virtual **(keynote)**
- P.93 November 2020, *International Conference on Software Architecture*, virtual **(keynote)**
- P.92 March 2020, *University of Gothenburg*, Gothenburg, Sweden
- P.91 February 2019, *UC Irvine School of the Arts Design Salon*, Irvine, CA
- P.90 September 2018, *ACM SIGSOFT*, online webinar
- P.89 July 2018, *IEEE OC Computer Society*, Irvine, CA
- P.88 May 2018, *Institute for Software Research*, Irvine, CA
- P.87 January 2018, *Future of Software Design*, Pittsburgh, PA
- P.86 November 2016, *UC Irvine Provost Leadership Academy*, Irvine, CA
- P.85 May 2016, *Institute for Software Research*, Irvine, CA
- P.84 September 2015, *Southern California Society for Information Management*, Long Beach, CA **(invited presentation)**
- P.83 July 2015, *Software Engineering Mix*, Seattle, WA **(invited presentation)**

- P.82 May 2015, *Second International Workshop on Crowdsourcing in Software Engineering*, Florence, Italy (**panelist**)
- P.81 April 2015, *University of Zürich*, Zürich, Switzerland
- P.80 October 2014, *Brazilian Symposium on Software Engineering*, Maceió, Brazil (**panelist**)
- P.79 October 2014, *Brazilian Symposium on Software Engineering*, Maceió, Brazil (**keynote**)
- P.78 March 2014, *International Symposium on Design Visions*, Kyoto, Japan (**invited talk**)
- P.77 October 2013, *Congreso Internacional de Investigación e Innovación en Ingeniería de Software 2013*, Xalapa, Mexico (**keynote**)
- P.76 May 2013, *Thirty-fifth International Conference on Software Engineering Education Track*, San Francisco, CA
- P.75 April 2013, *Dagstuhl Seminar on Meta-modeling Model-Based Engineering Tools*, Dagstuhl, Germany
- P.74 April 2013, *TU Delft*, Delft, The Netherlands
- P.73 September 2012, *SCALE PI Meeting*, Lincoln, NE
- P.72 March 2011, *Tenth International Conference on Aspect-Oriented Software Development*, Porto de Galinhas, Brazil (**keynote**)
- P.71 November 2010, *Software Engineering Educators Symposium*, Santa FE, NM (**invited tutorial**)
- P.70 September 2010, *Twenty-fifth IEEE/ACM International Conference on Automated Software Engineering*, Antwerp, Belgium
- P.69 March 2010, *University of Texas at Dallas*, Dallas, TX
- P.68 November 2009, *Third International Workshop on Knowledge Collaboration in Software Development*, Tokyo, Japan (**keynote**)
- P.67 November 2009, *SRA International*, Tokyo, Japan
- P.66 June 2009, *USC-IEEE Software Workshop on Architecture*, Los Angeles, CA
- P.65 November 2008, *Workshop on Infrastructure for Research in Collaborative Software Engineering*, Atlanta, GA
- P.64 November 2008, *Software Engineering Educators Symposium*, Atlanta, GA (**invited tutorial**)
- P.63 October 2008, *Open University*, Milton Keynes, United Kingdom
- P.62 July 2008, *CRA Conference at Snowbird panel on Innovative Undergraduate Curricula*, Snowbird, UT
- P.61 April 2008, *Software Engineering Workshop: Bridging the Gap: Knowledge transfer and exchange of software engineering best practices used in the industry and taught by academia*, Fullerton, CA
- P.60 March 2008, *Federal University of Rio de Janeiro*, Rio de Janeiro, Brazil
- P.59 November 2007, *CWI*, Amsterdam, Netherlands
- P.58 October 2007, *ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages and Applications Birds of a Feather Session on IBM Jazz*, Montreal, Canada

- P.57 October 2007, *IBM*, Hawthorne, NY
- P.56 August 2007, *First Workshop on Measurement-based Cockpits for Distributed Software and Systems Engineering Projects*, Munich, Germany
- P.55 June 2007, *Fourth IEEE International Workshop on Visualizing Software for Understanding and Analysis*, Banff, Canada
- P.54 April 2007, *Accenture Research Labs*, Chicago, IL
- P.53 March 2007, *Coastline Community College*, Garden Grove, CA
- P.52 October 2006, *First International Conference on Global Software Engineering*, Florianopolis, Brazil
- P.51 September 2006, *CIMAT*, Guanajuato, Mexico
- P.50 August 2006, *Northrup Grumman*, Carson, CA
- P.49 April 2006, *OCTANe@UCI*, Irvine, CA
- P.48 September 2005, *Boeing*, Anaheim, CA
- P.47 September 2005, *Twelfth Monterey Workshop – Networked Systems: Realization of Reliable Systems on Top of Unreliable Networked Platforms*, Laguna Beach, CA
- P.46 June 2005, *University of Kyoto*, Kyoto, Japan
- P.45 June 2005, *Japan Advanced Institute of Science and Technology*, Nomi, Japan
- P.44 June 2005, *Software Symposium*, Toyama, Japan (**keynote**)
- P.43 June 2005, *University of Tokyo*, Tokyo, Japan
- P.42 May 2005, *Twenty-seventh International Conference on Software Engineering*, St. Louis, MO
- P.41 May 2005, *Brea Olinda High School*, Brea, CA
- P.40 March 2005, *Eighteenth Conference on Software Engineering Education & Training*, Ottawa, CA
- P.39 February 2005, *FIPSE Directors Meeting*, Denver, CO
- P.38 November 2004, *FIPSE*, Washington, DC
- P.37 November 2004, *Twelfth ACM SIGSOFT Symposium on the Foundations of Software Engineering*, Newport Beach, CA (**invited tutorial**)
- P.36 November 2004, *Twelfth ACM SIGSOFT Symposium on the Foundations of Software Engineering*, Newport Beach, CA (**invited tutorial**)
- P.35 August 2004, *IBM*, Cambridge, MA
- P.34 May 2004, *Twenty-sixth International Conference on Software Engineering*, Edinburgh, United Kingdom
- P.33 March 2004, *Federal University of Rio de Janeiro*, Rio de Janeiro, Brazil
- P.32 June 2003, *Raytheon*, Anaheim, CA

- P.31 May 2003, *Eleventh International Workshop on Software Configuration Management*, Portland, OR
- P.30 May 2003, *Twenty-fifth International Conference on Software Engineering*, Portland, OR
- P.29 May 2003, *Twenty-fifth International Conference on Software Engineering*, Portland, OR
- P.28 April 2003, *Annual ACDM Conference*, San Diego, CA (invited panel)
- P.27 October 2002, *University of Calgary*, Calgary, Canada
- P.26 September 2002, *Fourth International Symposium on Human Computer Interaction with Mobile Devices*, Pisa, Italy
- P.25 August 2002, *Third Working IEEE/IFIP Conference on Software Architecture*, Montreal, Canada
- P.24 August 2002, *NASA Ames Research Center*, Moffett Field, CA
- P.23 May 2002, *Impact Presentation at the Twenty-fourth International Conference on Software Engineering*, Orlando, FL
- P.22 March 2002, *Jet Propulsion Laboratory*, Pasadena, CA
- P.21 March 2002, *Ground Systems Architecture Workshop*, El Segundo, CA
- P.20 January 2002, *University of Massachusetts*, Amherst, MA
- P.19 December 2001, *Working Conference on Complex and Dynamic Systems Architecture*, Brisbane, Australia
- P.18 November 2001, *University of Colorado, Boulder*, Boulder, CO
- P.17 September 2001, *Eighth European Software Engineering Conference with the Ninth International Symposium on the Foundations of Software Engineering*, Vienna, Switzerland
- P.16 May 2001, *ICS Chairs Advisory Board Meeting*, Irvine, CA
- P.15 February 2001, *Open Group Meeting*, San Jose, CA
- P.14 February 2001, *DARPA DASADA Meeting*, San Jose, CA
- P.13 January 2001, *ICS Research Symposium*, Irvine, CA
- P.12 November 2000, *Conexant*, Irvine, CA
- P.11 May 2000, *Fourth International Software Architecture Workshop*, Limerick, Ireland
- P.10 May 2000, *Third ICSE Workshop on Software Engineering over the Internet*, Limerick, Ireland
- P.9 March 2000, *Annual ACDM Conference*, San Diego, CA (**keynote**)
- P.8 May 1999, *University of California, Irvine*, Irvine, CA
- P.7 February 1999, *Colorado State University*, Fort Collins, CO
- P.6 February 1998, *Philips Research Laboratories*, Eindhoven, Netherlands
- P.5 May 1998, *New Mexico State University*, Las Cruces, NM
- P.4 June 1997, *LSR-IMAG*, France

- P.3 August 1996, *Erasmus University*, Rotterdam, Netherlands
- P.2 March 1995, *University of Denver*, Denver, CO
- P.1 October 1994, *Erasmus University*, Rotterdam, Netherlands

UNDERGRADUATE COURSES TAUGHT

Informatics 43	Introduction to Software Engineering
Informatics 44	Seminar in Informatics Research Topics
Informatics 117	Project in Software System Design
Informatics 121	Software Design I
Informatics 122	Software Design II
Informatics 190	Climate XR
ICS 52	Introduction to Software Engineering
ICS 125	Project in Software System Design
ICS 127	Advanced Software Engineering Project
ICS H198	Honors Research
ICS 199	Individual Study

GRADUATE COURSES TAUGHT

ICS 221	Software Engineering
ICS 223	Software Architecture
ICS 226	Applied Software Design Techniques
ICS 228	Software Environments
ICS 229	Seminar in Software
ICS 280	Special Topics in Information and Computer Science
ICS 290	Research Seminar
Informatics 291S	Literature Survey in Software Engineering
Informatics 295	Climate XR
ICS 298	Thesis Supervision
ICS 299	Individual Study
SWE 265P	Software Modeling & Reverse Engineering

GRADUATE AND POST-DOCTORAL STUDENTS ADVISED

Post-doctoral Supervision

Thomas LaToza	2013–2015
Ayushi Rastogi	2017–2018

Dissertation Committee Chair (Principal Ph.D. Advisor)

Chris Lürer	Ph.D., 2004, University of California, Irvine
Emily Oh Navarro	Ph.D., 2006, University of California, Irvine
Anita Sarma	Ph.D., 2007, University of California, Irvine
Eugen Nistor	Ph.D., 2008, University of California, Irvine
Alex Baker	Ph.D., 2010, University of California, Irvine
Nick Mangano	Ph.D., 2013, University of California, Irvine
Nicolas Lopéz	Ph.D., 2014, University of California, Irvine
Gerald Bortis	Ph.D., 2016, University of California, Irvine
Lee Martie	Ph.D., 2017, University of California, Irvine

Adriana Meza Soria
 Elahe Paikari
 Victoria Jackson
 Yu Lu
 Nai-Yu Cheng

Ph.D., 2022, University of California, Irvine
 Ph.D., 2023, University of California, Irvine
 Ph.D., 2025, University of California, Irvine
 Ph.D., expected 2026, University of California, Irvine
 Ph.D., expected 2029, University of California, Irvine

Dissertation Committee Member

Marlon Vieira
 Peter Frölich
 Rohit Khare
 Marco Castaldi
 Marcio Dias
 Bob Boyer
 Cleidson de Souza
 Christian Stork
 Girish Suryanarayana
 Eric Dashofy
 Tijs van der Storm
 John Georgas
 Chris Jensen
 Roberto Silva-Filho
 Karen Cortes Verdin
 Lihua Xu
 Leila Naslavsky
 Uri Dekel
 Yang Wang
 Art Hitomi
 Kristina Windbladh
 Richard Wettel
 Sushil Bajracharya
 Wiwat Ruengmee
 Thomas Fritz
 Scott Hendrickson
 Yongjie Zheng
 Barthélemy Dagenais
 Joel Ossher
 Leyna Cotran
 Erik Trainer
 Alegria Baquero
 Francisco Servant
 Christopher Neil Bull
 Hitesh Sajnani
 Gleiph Ghiotto
 Dustin Wüest
 Jason Tsay
 Ankita Raturi
 Damodaram Kamma
 Rodi Jolak
 Giovanni Viviani
 Nicholas Nelson
 Hayden Freedman

Ph.D., 2003, University of California, Irvine
 Ph.D., 2003, University of California, Irvine
 Ph.D., 2003, University of California, Irvine
 Ph.D., 2004, University of L'Aquila, Italy
 Ph.D., 2004, University of California, Irvine
 Ph.D., 2005, University of California, San Diego, CA
 Ph.D., 2006, University of California, Irvine
 Ph.D., 2006, University of California, Irvine
 Ph.D., 2007, University of California, Irvine
 Ph.D., 2007, University of California, Irvine
 Ph.D., 2007, Vrije Universiteit Amsterdam, Netherlands
 Ph.D., 2008, University of California, Irvine
 Ph.D., 2009, University of California, Irvine
 Ph.D., 2009, University of California, Irvine
 Ph.D., 2009, Centro de Investigación en Matemáticas, Mexico
 Ph.D., 2009, University of California, Irvine
 Ph.D., 2009, University of California, Irvine
 Ph.D., 2009, Carnegie Mellon University, Pittsburgh, PA
 Ph.D., 2010, University of California, Irvine
 Ph.D., 2010, University of California, Irvine
 Ph.D., 2010, University of California, Irvine
 Ph.D., 2010, University of Lugano, Switzerland
 Ph.D., 2010, University of California, Irvine
 Ph.D., 2010, University of California, Irvine
 Ph.D., 2011, University of British Columbia, Canada
 Ph.D., 2011, University of California, Irvine
 Ph.D., 2012, University of California, Irvine
 Ph.D., 2012, McGill University, Canada
 Ph.D., 2013, University of California, Irvine
 Ph.D., 2013, University of California, Irvine
 Ph.D., 2013, University of California, Irvine
 Ph.D., 2014, University of California, Irvine
 Ph.D., 2015, University of California, Irvine
 Ph.D., 2015, Lancaster University, U.K.
 Ph.D., 2016, University of California, Irvine
 Ph.D., 2016, Universidade Federal Fluminense, Brazil
 Ph.D., 2017, University of Zurich, Switzerland
 Ph.D., 2017, Carnegie Mellon University, Pittsburgh, PA
 Ph.D., 2017, University of California, Irvine
 Ph.D., 2017, IIT-D, India
 Ph.D., 2020, University of Gothenburg, Sweden
 Ph.D., 2020, University of British Columbia, Canada
 Ph.D., 2024, Oregon State University, Corvallis, OR
 Ph.D., 2024, University of California, Irvine

Master's Degrees Supervised (other than Ph.D. students)

Michael Hollis
 Robert A. Smith
 Sumita Rao
 Rob Egelink

M.S., 1997, University of Colorado, Boulder
 M.S., 1999, University of Colorado, Boulder
 M.S., 2002, University of California, Irvine
 M.S., 2002, Erasmus University Rotterdam

Maulik Oza	M.S., 2003, University of California, Irvine
Sundararajan Sowrirajan	M.S., 2003, University of California, Irvine
Roger Ripley	M.S., 2004, University of California, Irvine
Ryan Yasui	M.S., 2004, University of California, Irvine
Ronald van der Lingen	M.S., 2004, Erasmus University Rotterdam
Christopher Van der Westhuizen	M.S., 2006, University of California, Irvine
Ping Chen	M.S., 2006, University of California, Irvine
Isabella Almeida da Silva	M.S., 2008, Federal University of Rio de Janeiro, Brazil
Francisco Servant	M.S., 2009, University of California, Irvine
Wouter Buts	M.S., 2010, University of Utrecht, Netherlands
Nazia Chorwadwala	M.S., 2010, University of California, Irvine
Nilmax Moura	M.S., 2011, University of California, Irvine
Tiago Proença	M.S., 2011, University of California, Irvine
Wayne Huang	M.S., 2012, University of California, Irvine
Mitch Dempsey	M.S., 2013, University of California, Irvine
Micky Chen	M.S., 2014, University of Amsterdam, Netherlands
Luxi Jiang	M.S., 2014, University of Amsterdam, Netherlands
Arturo di Lecce	M.S., 2016, Politecnico di Milano, Italy
Fabio Ricci	M.S., 2016, Politecnico di Milano, Italy
Sara Melissa Triplett	M.S., 2016, University of California, Irvine
Edgar Weidema	M.S., 2016, Vrije Universiteit Amsterdam, Netherlands
Consuelo Lopez	M.S., 2016, University of California, Irvine
Fernando Spanghero	M.S., 2016, University of California, Irvine
Thomas Kwak	M.S., 2017, University of California, Irvine
Aditya Nair	M.S., 2020, University of California, Irvine
Daniel Yao	M.S., 2020, University of California, Irvine
Brian Ebrahimi	M.S., 2022, University of California, Irvine
Yu Lu	M.S., 2022, University of California, Irvine
Sophie van Genderen	M.S., 2023, University of California, Irvine
Nadia Etemadi	M.S., 2023, University of California, Irvine
Anmol Deshpande	M.S., 2024, University of California, Irvine
Kahye Ahn	M.S., 2024, University of California, Irvine
Leyu Lyu	M.S., 2024, University of California, Irvine
Wenxi Feng	M.S., 2025, University of California, Irvine

SERVICE TO THE BROADER ACADEMIC COMMUNITY

Advisory Boards

School of Informatics, Computing, and Cyber Systems, Northern Arizona University (2015–2019)
 Topplers Domino Award, topplers.org (2013–2015)
 Information Systems Program, Orange Coast College (2008–2010)

SERVICE TO THE UNIVERSITY COMMUNITY

Campus-wide Service at the University of California, Irvine

Chair

Esports Faculty Advisory Board (AY 2018–present)
 Faculty Review Committee for Google Fellowships (AYs 2016–2019)

Member

Competitive Edge Task Force (AY 2023–2024)
 Council on Planning and Budget (AYs 2021–2023)
 Provost's Working Group on Climate Change and Environmental Sustainability (AYs 2021–2023)

Solutions that Scale Executive Committee (AYs 2021–2023)
 Committee on the Institute for California Art (AY 2018–2019)
 BridgeMedia Working Group on Alumni Communications (AY 2015–2016)
 Faculty Review Committee for Google Fellowships (AY 2019–2020, AY 2015–2016)
 Study Group on Housing (AY 2010–2011)
 Category V General Education Requirements Ad-Hoc Committee of Committee on Educational Policy (AY 2010–2011)
 Task Force on New Graduate Programs (AY 2009–2010)
 Bren School Representative to the Senate Assembly (AY 2005–2006)
 Long Range Academic Breadth Committee (AY 2003–2004)
 Council on Undergraduate Experiences (AYs 2003–2005)
 Undergraduate Research Task Force (April 2003–April 2004)
 Committee on Student Affairs (AYs 2001–2003)
 Web Advisory Committee (AYs 2000–2003)
 NACS Advisory Committee (AY 2000–2001)

School-wide Service in the Donald Bren School of Information and Computer Sciences, University of California, Irvine

Chair

Distinctions and Awards Committee (AY 2023–2024)
 Communications Director Search Committee (AY 2014–2015)
 External Relations Committee (AY 2008–2009)
 Faculty Chair (AY 2005–2006)
 Executive Committee (AY 2005–2006)
 Student Outreach and Retention Committee (AY 2005–2006)
 Web Policy Committee (AY 2003–2004)

Member

Distinguished Professor Committee (AYs 2017–2020)
 Assistant Dean Search Committee (AY 2016–2017)
 Strategic Planning Task Force (AY 2015–2016)
 Assistant Dean Search Committee (AY 2013–2014)
 Dean Search Committee (AY 2009–2010)
 Executive Committee (AY 2006–2007)
 Student Outreach, Access, and Retention Committee (AY 2006–2007)
 Committee on Undergraduate Policy (AY 2003–2004)
 Network System Recruiting Committee (AY 2002–2003)
 Committee on Undergraduate Policy Committee (AY 2001–2002)
 Software Engineering Recruiting Committee (AY 2001–2002)
 ICS Identity Task Force (AY 2001–2002)
 Graduate Admissions Committee (AY 2000–2001)
 Software Engineering Recruiting Committee (AY 2000–2001)
 Computing Advisory Committee (AY 2000–2001)
 Graduate Admissions Committee (AY 1999–2000)

Departmental Service in the Department of Informatics, University of California, Irvine

Chair

Student Outreach, Access, and Retention Committee (AY 2006–2007)
 Recruiting Committee (AY 2004–2005)
 Faculty Recruiting Committee (AY 2003–2004)

Member

Software Engineering Steering Committee (AY 2022–present)
 Sustainability Recruiting Committee (AY 2022–2023)
 Undergraduate Policy Committee (AY 2008–2009)
 Student Outreach, Access, and Retention Committee (AY 2008–2009)

Faculty Recruiting Committee (AY 2006–2007)

SERVICE TO THE RESEARCH COMMUNITY

Co-Editor in Chief

Journal on Software Engineering Research and Development (2012–2020)

Editorial Board

ACM Transactions on Software Engineering and Methodology (2008–2014)

Information and Software Technology Journal (2005–2012)

Co-Guest Editor

IEEE Software special issue on Creativity in Software Engineering (2025)

IEEE Software special issue on Collaborative Modeling in Software Engineering (2018)

IEEE Software special issue on Studying Professional Software Design (2012)

Design Studies special issue on Studying Professional Software Design (2010)

Steering Committee

International Conference on Software Engineering (2012–2017)

Software Engineering and Middleware Workshop Series (2004–2006)

Co-Organizer

International Conference on Software Engineering Future of Software Engineering (2026)

Dagstuhl Perspectives Workshop on Creativity, Generative AI, and Software Engineering (2025)

Workshop on Designing Software (2025)

Workshop on Designing Software (2024)

Workshop on Engineering Complex Systems (2014)

Workshop on Flexible Modeling Tools (FlexiTools 2013)

Workshop on Flexible Modeling Tools (FlexiTools 2011)

Workshop on Flexible Modeling Tools (FlexiTools 2010; at ICSE)

Workshop on Flexible Modeling Tools (FlexiTools 2010; at OOPSLA)

NSF-Sponsored International Workshop on Studying Professional Software Design (SPSD 2010)

Workshop on Flexible Modeling Tools (FlexiTools 2009)

Program Chair

ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2010)

Tenth International Workshop on Software Configuration Management (SCM-10)

Program Co-Chair

Thirty-sixth International Conference on Software Engineering (ICSE 2014)

Seventh joint meeting of the European Software Engineering Conference and the ACM SIGSOFT

Symposium on the Foundations of Software Engineering Challenges Track (ESEC/FSE 2009)

IEEE/ACM International Conference on Automated Software Engineering Demo Track (ASE 2009)

Twenty-ninth International Conference on Software Engineering Educational Track (ICSE 2007)

OOPSLA Eclipse Technology Exchange (OOPSLA ETX 2005)

Third International Workshop on Software Engineering and Middleware (SEM 2002)

Ninth International Symposium on System Configuration Management (SCM-9)

Most Influential Paper Award Co-Chair

Forty-sixth International Conference on Software Engineering (ICSE 2024)

Technical Briefings Co-Chair

Forty-first International Conference on Software Engineering (ICSE 2019)

Student Programs Chair

Fourteenth ACM Symposium on Foundations of Software Engineering (FSE-14)

Doctoral Symposium Chair

Twenty-sixth International Conference on Software Engineering (ICSE 2004)

New Faculty and Researchers Symposium Co-Chair

Thirty-fifth International Conference on Software Engineering (ICSE 2013)

Workshops Co-Chair

Twenty-seventh International Conference on Software Engineering (ICSE 2005)

Ninth European Software Engineering Conference and Eleventh ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC-9/FSE-11)

Program Committee Member

Thirty-eighth International Conference on Software Engineering Education and Training (CSEE&T 2026)

Workshop on Designing Software (2026)

Forty-eighth International Conference on Software Engineering New Ideas and Emerging Results Track (ICSE NIER 2025)

Forty-eighth International Conference on Software Engineering Doctoral Symposium (ICSE DS 2025)

18th International Conference on Cooperative and Human Aspects of Software Engineering (CHASE 2025)

Thirty-seventh International Conference on Software Engineering Education and Training (CSEE&T 2025)

International Workshop on Collaborative and Participatory Modeling (CoPaMo 2024)

17th International Conference on Cooperative and Human Aspects of Software Engineering (CHASE 2024)

Thirty-sixth International Conference on Software Engineering Education and Training (CSEE&T 2024)

Forty-fifth International Conference on Software Engineering (ICSE 2023)

Forty-Fourth International Conference on Software Engineering (ICSE 2022)

Sixth International Workshop on Human Factors in Modeling/Modeling of Human Factors (HuFaMo 2022)

Brazilian Conference on Software Doctoral and Master Thesis Competition (CBSOFT thesis competition 2022)

First Hands-on Workshop on Collaborative Modeling (HoWCoM 2021)

ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering Test-of-Time Award (ESEC/FSE ToT 2020)

Forty-first International Conference on Software Engineering (ICSE 2019)

Forty-first International Conference on Software Engineering Student Research Competition (ICSE SRC 2019)

Fortieth International Conference on Software Engineering (ICSE 2018)

Fifth International Workshop on Crowdsourcing in Software Engineering (CSI-SE 2018)

Thirty-ninth International Conference on Software Engineering New Ideas and Emerging Results Track (ICSE NIER 2017)

Fourth International Workshop on Crowdsourcing in Software Engineering (CSI-SE 2017)

Twenty-fourth ACM SIGSOFT International Conference on the Foundations of Software Engineering Visions and Reflections Track (FSE-VAR 2016)

Thirty-eight International Conference on Software Engineering Visions Track (ICSE Visions 2016)

Third International Workshop on Crowdsourcing in Software Engineering (CSI-SE 2016)

Third International Workshop on Context for Software Development (CSD 2016)

First International Workshop on Bringing Architectural Design Thinking into Developers' Daily Activities (BRIDGE 2016)

First International Workshop on Decision Making in Software Architecture (MARCH 2016)

Thirty-seventh International Conference on Software Engineering (ICSE 2015)

Thirty-fifth International Conference on Software Engineering (ICSE 2013)

Thirty-fourth International Conference on Software Engineering (ICSE 2012)

International Symposium on Sketch-Based Interfaces and Modeling (SBIM 2011)

Thirty-third International Conference on Software Engineering (ICSE 2011)

Twenty-fourth Conference on Software Engineering Education & Training (CSEE&T 2010)

Third International Workshop on Knowledge Collaboration in Software Development (KCSO 2009)
Thirty-first International Conference on Software Engineering (ICSE 2009)
Thirty-first International Conference on Software Engineering Doctoral Symposium (ICSE 2009)
Sixteenth ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE 2008)
Thirtieth International Conference on Software Engineering (ICSE 2008)
Second International Workshop on Variability Modelling of Software Intensive Systems (VaMoS 2008)
First India Software Engineering Conference (ISEC 2008)
Fourteenth Asia-Pacific Software Engineering Conference (APSEC 2007)
Twenty-second IEEE/ACM International Conference on Automated Software Engineering (ASE 2007)
Eleventh European Software Engineering Conference together with the Fifteenth ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2007)
ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages and Applications Onward! Track (OOPSLA 2007)
Sixth Software Product Line Conference (SPLC 2007)
First International Workshop on Variability Modelling of Software Intensive Systems (VaMoS 2007)
Sixth Working IEEE/IFIP Conference on Software Architecture (WICSA 2007)
Fifth Software Product Line Conference (SPLC 2006)
Fifth Software Product Line Conference Doctoral Symposium (SPLYR 2006)
First International Conference on Global Software Engineering (IGCSE 2006)
Nineteenth Conference on Software Engineering Education & Training (CSEE&T 2006)
Component Deployment 2005 (CD 2005)
International Workshop on Distributed Software Development (DISD 2005)
Fifth Working IEEE/IFIP Conference on Software Architecture (WICSA-5)
Twelfth International Workshop on Software Configuration Management (SCM-12)
Fourth Software Product Line Conference (SPLC-4)
CSCW Eclipse as a Vehicle for CSCW Research Workshop (CSCW Eclipse 2004)
Joint 10th European Software Engineering Conference and the 13th ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2005)
OOPSLA Eclipse Technology Exchange (OOPSLA ETX 2004)
Twenty-seventh International Conference on Software Engineering Doctoral Symposium (ICSE 2005)
Software Composition Workshop 2005 (SC 2005)
Twenty-seventh International Conference on Software Engineering (ICSE 2005)
Third Workshop on Cooperative Supports for Distributed Software Engineering (CSSE 2004)
Third Software Product Line Conference Doctoral Symposium (SPLYR 2004)
2004 Workshop on Software Variability Management for Product Derivation (SVAMPOD 2004)
2004 Euromicro Workshop on Component-Based Software Engineering (ECBSE 2004)
2004 International Workshop on the Principles of Software Evolution (IWPSE 2004)
Twenty-sixth International Conference on Software Engineering (ICSE 2004)
Twenty-sixth International Conference on Software Engineering Workshops Committee (ICSE 2004)
Third Software Product Line Conference (SPLC-3)
Fourth Working IEEE/IFIP Conference on Software Architecture (WICSA-4)
Seventh International Symposium on Component-Based Software Engineering (CBSE-7)
Twelfth ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE-12)
Fifth International Workshop on Product Family Engineering (PFE-5)
Twenty-fifth International Conference on Software Engineering Doctoral Symposium (ICSE 2003)
2003 Euromicro Workshop on Component-Based Software Engineering (ECBSE 2003)
Second Workshop on Cooperative Supports for Distributed Software Engineering (CSSE 2003)
Eleventh International Workshop on Software Configuration Management (SCM-11)
Tenth International Symposium on the Foundations of Software Engineering (FSE-10)
Second Software Product Line Conference (SPLC-2)
2002 Euromicro Workshop on Component-Based Software Engineering (ECBSE 2002)
Fourth International Workshop on Product Family Engineering (PFE-4)
Workshop on Generative Programming 2002 (GP 2002)
Second ICSE Workshop on Open Source Software Engineering (WOSSE 2002)
2001 Euromicro Workshop on Component-Based Software Engineering (ECBSE 2001)
First ICSE Workshop on Open Source Software Engineering (WOSSE 2001)
Eighth International Symposium on System Configuration Management (SCM-8)
Seventh International Workshop on Software Configuration Management (SCM-7)

Journal Reviews

ACM Communications of the ACM (2025, 2017, 2006)
 ACM Computing Surveys (2021, 2004, 2002)
 ACM Transactions on Computer-Human Interaction (2020)
 ACM Transactions on Software Engineering and Methodology (2025, 2024, 2024, 2023, 2018, 2018, 2018, 2017, 2006, 2005, 2003, 2002, 2001)
 Automated Software Engineering (2017, 2015, 2003, 2002, 2001)
 Computer Support Cooperative Work (2021, 2016)
 Design Studies (2020, 2014, 2012, 2011)
 IEEE Computer Graphics and Applications (2008, 2008)
 IEEE Software (2023, 2023, 2022, 2018, 2016, 2016, 2015, 2015, 2010, 2010, 2006)
 IEEE Transactions on Software Engineering (2023, 2022, 2012, 2011, 2010, 2009, 2006, 2006, 2005, 2004, 2003, 2003, 2003, 2002, 2001)
 Information and Software Technology (2010, 2009, 2007, 2007)
 International Journal of Human-Computer Studies (2018)
 International Software Journal (2001)
 Journal of the Brazilian Computer Society (2023)
 Journal of Responsible Technology (2023)
 Science of Computer Programming (2009)
 Software and Systems Modeling (2024)
 Software Focus (2002, 2001)
 Software Maintenance and Evolution (2004)
 Software Practice & Experience (2003)
 Systems and Software (2018, 2018, 2013, 2013, 2012, 2007, 2006)

Additional Conference Reviews

Twenty-eight International Conference on Software Engineering (ICSE 2006)
 Twenty-fifth International Conference on Software Engineering Experience Reports (ICSE 2003)
 Thirty-second ASEE/IEEE Frontiers in Education Conference (FIE 2002)

Book Reviews / Book Proposal Reviews

Addison-Wesley (2004)
 CRC Press (2016)
 McGraw & Hill (2006, 2000, 2000)
 MIT Press (2020, 2018, 2017, 2016)
 Prentice Hall (2003, 2003)
 Springer-Verlag (2005)
 Wiley (2004, 2003)

Proposal Reviews

Alberta Ingenuity Fund (2006)
 Luxembourg Fonds National de la Recherche (2018, 2015)
 National Science Foundation (2018, 2013, 2009, 2008, 2006, 2004, 2004)
 National Science and Engineering Research Council of Canada (2017, 2017)
 Netherlands Organization for Scientific Research (2019, 2007, 2006, 2004, 2002)
 New York University Abu Dhabi Institute (2025)
 New Zealand Ministry of Business, Education, and Innovation (2015)
 University of California, Irvine UC/UK Travel Grants (2002)
 University of California President's Postdoctoral Fellowships Program (2003)

Mailing List Owner

SEWORLD (2011–2017, 1995–2000)

HONORS AND AWARDS

- 2014 Nick Mangano: ACM Outstanding Doctoral Dissertation Award, Association of Computing Machinery, Special Interest Group on Software Engineering.
- 2013 ACM Distinguished Scientist
- 2013 University of California, Irvine, Undergraduate Research Opportunities Program, Faculty Mentor of the Month
- 2010 University of California, Irvine, Donald Bren School of Information and Computer Sciences Dean's Award for Graduate Mentoring
- 2009 Premier Award for Excellence in Engineering Education Courseware
- 2006 UC Irvine Advisor Participation Award
- 2005 University of California, Irvine, Division of Undergraduate Education Professor of the Year
- 2005 University of California, Irvine, Division of Undergraduate Education Award for Teaching Excellence
- 2004 University of California, Irvine, Donald Bren School of Information and Computer Sciences 2003–2004 Outstanding Graduate Mentor
- 2002 University of California, Irvine, Chancellor's Award for Excellence in Undergraduate Research
- 2001 National Science Foundation, CAREER Award
- 2001 University of California, Irvine, Division of Undergraduate Education Award for Excellence in Teaching

PROFESSIONAL AFFILIATIONS

- 2000–present Association for Computing Machinery (ACM)
- 2000–present Association for Computing Machinery Special Interest Group on Software Engineering (ACM SIGSOFT)
- 1996–present Institute of Electrical and Electronics Engineers (IEEE)
- 1996–present Institute of Electrical and Electronics Engineers Computer Society (IEEE-CS)