

Ece Kamar

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RESEARCH INTERESTS

Artificial intelligence and human-computer interaction, with emphasis on real-world applications that can benefit from the complementary abilities of humans and machines. Investigations on the impact of AI on society and studying ways to develop AI systems that are reliable, unbiased and trustworthy. In particular: models of teamwork, machine learning, human-in-the-loop systems, real-world AI, multi-agent systems, human computation and troubleshooting AI.

EDUCATION

- 2010 Ph.D. in Computer Science, Harvard University
- 2007 M.S. in Computer Science, Harvard University
- 2005 B.S. in Computer Science and Engineering, Sabanci University (magna cum laude)

PROFESSIONAL EXPERIENCE

- 2021-present **Microsoft Research Redmond**
Partner Research Area Manager, Human-centered AI Research Area
- 2019-present **Microsoft AETHER Committee on Responsible AI**
Technical Advisor
- 2010-2021 **Microsoft Research Redmond**
Researcher, Senior Researcher, Principal Researcher, Senior Principal Researcher
Adaptive Systems and Interaction Group
- 2005-2010 **Harvard University School of Engineering and Applied Sciences**
Ph.D. Candidate (advised by Prof. Barbara Grosz)
Thesis: Reasoning Effectively Under Uncertainty for Human-Computer Teamwork
- Fall 2008 **Microsoft Research Redmond**
Research fellow, Adaptive Systems and Interaction Group
Developed a ridesharing system with preference, planning and auction components
- Summer 2007 **Microsoft Research Redmond**
Research intern, Adaptive Systems and Interaction Group
Developed a personal filter for meeting reminders.
Designed an auction mechanism for opportunistic commerce.
- Fall 2006 Teaching Assistant for "Introduction to Formal Systems and Computation" Harvard University

TUTORIALS & TEACHING EXPERIENCE

- Winter 2017 Tutorial on Interactive Machine Learning at AAAI 2017
With Matthew Taylor and Brad Hayes
- Fall 2009 Teaching Assistant for “Intelligent Interactive Systems”
Harvard University
- Spring 2009 Teaching Assistant for “Intelligent Machines: Perception, Learning, and Uncertainty”
Harvard University

PUBLICATIONS

- Public Report Peter Stone, Rodney Brooks, Erik Brynjolfsson, Ryan Calo, Oren Etzioni, Greg Hager, Julia Hirschberg, Shivaram Kalyan Krishnan, Ece Kamar, Sarit Kraus, Kevin Leyton-Brown, David Parkes, William Press, AnnaLee Saxenian, Julie Shah, Milind Tambe, and Astro Teller. "Artificial Intelligence and Life in 2030." One Hundred Year Study on Artificial Intelligence: Report of the 2015-2016 Study Panel, Stanford University, Stanford, CA, September 2016. Doc: <http://ai100.stanford.edu/2016-report>.
- Journal Articles Ramya Ramakrishnan, Ece Kamar, Debadeepta Dey, Eric Horvitz, Julie Shah. Blind Spot Detection for Safe Sim-to-real Transfer, JAIR 2020.
- Iyad Rahwan, Manuel Cebrian, Nick Obradovich, Josh Bongard, Jean-François Bonnefon, Cynthia Breazeal, Jacob W Crandall, Nicholas A Christakis, Iain D Couzin, Matthew O Jackson, Nicholas R Jennings, Ece Kamar, Isabel M Kloumann, Hugo Larochelle, David Lazer, Richard McElreath, Alan Mislove, David C Parkes, Margaret E Roberts, Azim Shariff, Joshua B Tenenbaum and Michael Wellman. **Machine Behavior**, Nature 2019.
- Ece Kamar, Ya’akov (Kobi) Gal and Barbara J. Grosz. Modeling Information Exchange Opportunities For Effective Human-Computer Teamwork. In Artificial Intelligence Journal, 2013.
- Full-length Conference Jonathan Martinez, Kobi Gal, Ece Kamar, Levi HS Lelis. Improving the Performance-Compatibility Tradeoff with Personalized Objective Functions, AAAI 2021
- Articles Gagan Bansal, Besmira Nushi, Ece Kamar, Eric Horvitz, Daniel S Weld. Is the Most Accurate AI the Best Teammate? Optimizing AI for Teamwork, AAAI 2021
- Gagan Bansal, Tongshuang Wu, Joyce Zhou, Raymond Fok, Besmira Nushi, Ece Kamar, Marco Tulio Ribeiro, Daniel Weld. Does the whole exceed its parts? The effect of AI explanations on complementary team performance, CHI 2021
- Joon Sung Park, Michael S Bernstein, Robin N Brewer, Ece Kamar, Meredith Ringel Morris. Understanding the Representation and Representativeness of Age in AI Data Sets, AIES 2021.

Solon Barocas, Anhong Guo, Ece Kamar, Jacquelyn Kronen, Meredith Ringel Morris, Jennifer Wortman Vaughan, Duncan Wadsworth, Hanna Wallach. Designing Disaggregated Evaluations of AI Systems: Choices, Considerations, and Tradeoffs, AIES 2021.

Joon Sung Park, Danielle Bragg, Ece Kamar, Meredith Ringel Morris. Designing an Online Infrastructure for Collecting AI Data From People With Disabilities, ACM FAccT 2021.

Sahil Singla, Besmira Nushi, Shital Shah, Ece Kamar, Eric Horvitz. Understanding Failures of Deep Networks via Robust Feature Extraction, CVPR 2021.

Sandhya Saisubramanian, Shlomo Zilberstein, Ece Kamar. Avoiding Negative Side Effects due to Incomplete Knowledge of AI Systems, IJCAI 2021 (distinguished paper award).

Megha Srivastava, Besmira Nushi, Ece Kamar, Shital Shah, Eric Horvitz. An Empirical Analysis of Backward Compatibility in Machine Learning Systems, KDD 2020.

Bryan Wilder, Eric Horvitz, Ece Kamar. Learning to Complement Humans, IJCAI 2020.

Keri Mallari, Kori Inkpen, Paul Johns, Sarah Tan, Divya Ramesh, Ece Kamar. Do I Look Like a Criminal? Examining how Race Presentation Impacts Human Judgement of Recidivism, CHI 2020.

Anthony Liu, Santiago Guerra, Isaac Fung, Gabriel Matute, Ece Kamar, Walter Lasecki. Towards Hybrid Human-AI Workflows for Unknown Unknown Detection, The Web Conference 2020.

Ramprasaath R Selvaraju, Purva Tendulkar, Devi Parikh, Eric Horvitz, Marco Tulio Ribeiro, Besmira Nushi, Ece Kamar. SQuINTing at VQA Models: Introspecting VQA Models With Sub-Questions, CVPR 2020.

Gagan Bansal, Besmira Nushi, Ece Kamar, Walter S Lasecki, Daniel S Weld, Eric Horvitz. Beyond Accuracy: The Role of Mental Models in Human-AI Team Performance, AAAI 2019.

Shayan Doroudi, Ece Kamar, Emma Brunskill. Not Everyone Writes Good Examples but Good Examples can Come from Anywhere, HCOMP 2019.

Andi Peng, Besmira Nushi, Emre Kiciman, Kori Inkpen, Siddharth Suri, Ece Kamar. What You See Is What You Get?
The Impact of Representation Criteria on Human Bias in Hiring, HCOMP 2019.

Ramya Ramakrishnan, Ece Kamar, Besmira Nushi, Debadeepta Dey, Julie Shah, Eric Horvitz. Overcoming Blind Spots in the Real World: Leveraging Complementary Abilities for Joint Execution, AAAI 2019.

Gagan Bansal, Besmira Nushi, Ece Kamar, Daniel S Weld, Walter S Lasecki, Eric Horvitz. Updates in Human-AI Teams: Understanding and Addressing the Performance/Compatibility Tradeoff, AAAI 2019.

Saleema Amershi, Andrew Begel, Christian Bird, Robert DeLine, Harald Gall, Ece Kamar, Nachiappan Nagappan, Besmira Nushi, Thomas Zimmermann. Software Engineering for Machine Learning: A Case Study, 2019 IEEE/ACM 41st International Conference on Software Engineering: Software Engineering in Practice.

Yongsung Kim, Adam Fourney and Ece Kamar. Studying Preferences and Concerns about Information Disclosure in Email Notifications, WWW 2019

Gagan Bansal, Besmira Nushi, Ece Kamar, Walter Lasecki, Daniel S. Weld and Eric Horvitz. Updates in Human-AI Teams: Understanding and Addressing the Performance/Compatibility Tradeoff, AAAI 2019

Ramya Ramakrishnan, Ece Kamar, Besmira Nushi, Debadeepta Dey, Julie Shah and Eric Horvitz. Overcoming Blind Spots in the Real World: Leveraging Complementary Abilities for Joint Execution, AAAI 2019

Himabindu Lakkaraju, Ece Kamar, Rich Caruana and Jure Leskovec. Faithful and Customizable Explanations of Black Box Models, AIES 2019

Besmira Nushi, Ece Kamar and Eric Horvitz. Towards Accountable AI: Hybrid Human-Machine Analyses for Characterizing System Failure, HCOMP 2018.

Ramya Ramakrishnan, Ece Kamar, Debadeepta Dey, Julie Shah and Eric Horvitz. Discovering Blind Spots in Reinforcement Learning, AAMAS 2018.

Avi Segal, Kobi Gal, Ece Kamar, Eric Horvitz and Grant Miller. Optimizing Interventions via Offline Policy Evaluation: Studies in Citizen Science. AAAI, 2018.

Sean Andrist, Dan Bohus, Ece Kamar and Eric Horvitz. What Went Wrong and Why? Diagnosing Situated Interaction Failures in the Wild. International Conference on Social Robotics 2017.

Elliot Salisbury, Ece Kamar and Meredith Morris. Toward Scalable Social Alt Text: Conversational Crowdsourcing as a Tool for Refining Vision-to-Language, HCOMP 2017 (Best paper award)

Harmanpreet Kaur, Mitchell Gordon, Yiwei Yang, Jeffrey P. Bigham, Jaime Teevan, Ece Kamar and Walter S. Lasecki. Crowdmask: Using Crowds to Preserve Privacy in Crowd-powered Systems via Progressive Filtering. HCOMP 2017.

Debarun Kar, Subhasree Sengupta, Ece Kamar, Eric Horvitz and Milind Tambe. Believe It or Not: Modeling Adversary Belief Formation in Stackelberg Security Games with Varying Information. Advances in Cognitive Systems 2017.

Himabindu Lakkaraju, Ece Kamar, Rich Caruana and Eric Horvitz. Identifying Unknown Unknowns in the Open World: Representations and Policies for Guided Exploration, AAAI 2017.

Besmira Nushi, Ece Kamar, Donald Kossmann and Eric Horvitz. On Human Intellect and Machine Failures: Troubleshooting Integrative Machine Learning Systems, AAAI 2017.

Joseph Chee Chang, Saleema Amershi and Ece Kamar. Revolt: Collaborative Crowdsourcing for Labeling Machine Learning Datasets, CHI 2017

Niloufar Salehi, Jaime Teevan, Shamsi Iqbal and Ece Kamar. Communicating Context to the Crowd for Complex Writing Tasks, CSCW 2017 (Honorable mention award).

Cathy Wu, Ece Kamar and Eric Horvitz. Clustering for Set Partitioning with a Case Study in Ridesharing, IEEE Intelligent Transportation Systems Conference (IEEE ITSC), November 2016. (Best paper award).

Cathy Wu, K. Shankari, Ece Kamar, Randy Katz, David Culler, Christos Papadimitriou, Eric Horvitz and Alexandre Bayen. Optimizing the Diamond Lane: A More Tractable Carpool Problem and Algorithms, IEEE Intelligent Transportation Systems Conference, 2016.

Avi Segal, Ya'akov Gal, Ece Kamar, Eric Horvitz, Alex Bower and Grant Miller. Intervention Strategies for Increasing Engagement in Volunteer-Based Crowdsourcing. In Proceedings of IJCAI 2016.

Ofra Amir, Ece Kamar, Andrey Kolobov and Barbara Grosz. Interactive Teaching Strategies for Agent Training. In Proceedings of IJCAI 2016.

Shayan Doroudi, Ece Kamar, Emma Brunskill and Eric Horvitz. Toward a Learning Science for Complex Crowdsourcing Tasks. In Proceedings of CHI 2016.

Ece Kamar, Ashish Kapoor and Eric Horvitz. Identifying and Accounting for Task-Dependent Bias in Crowdsourcing. In Proceedings of HCOMP 2015.

Christopher Lin, Andrey Kolobov, Ece Kamar and Eric Horvitz. Metareasoning for Planning Under Uncertainty. In Proceedings of IJCAI 2015.

Ece Kamar and Eric Horvitz. Planning for Crowdsourcing Hierarchical Tasks. In Proceedings of AAMAS 2015.

Margaret Mitchell, Dan Bohus and Ece Kamar. Crowdsourcing Language Generation Templates for Dialogue Systems. In Proceedings of INLG and SIGDIAL 2014.

Christopher Lin, Ece Kamar and Eric Horvitz. Signals in the Silence: Models of Implicit Feedback in a Recommendation System for Crowdsourcing. In Proceedings of AAAI 2014

Adish Singla, Eric Horvitz, Ece Kamar and Ryen White. Stochastic Privacy. In Proceedings of AAAI 2014 (Extended Version with Proofs).

Debadeepta Dey, Andrey Kolobov, Rich Caruana, Ece Kamar, Eric Horvitz, and Ashish Kapoor. Gauss Meets Canadian Traveler: Shortest-Path Problems with Natural Dynamics. In Proceedings of AAMAS 2014.

Walter Lasecki, Jamie Teevan and Ece Kamar. Information Extraction and Manipulation Threats in Crowd-Powered Systems. In Proceedings of CSCW 2014.

Andrew Mao, Ece Kamar, Yiling Chen, Eric Horvitz, Megan E. Schwamb, Chris J. Lintott, and Arfon M. Smith. Volunteering vs. Work for Pay: Incentives and Tradeoffs in Crowdsourcing. In Proceedings of HCOMP 2013.

Andrew Mao, Ece Kamar, and Eric Horvitz. Why Stop Now? Predicting Worker Engagement in Online Crowdsourcing. In Proceedings of HCOMP 2013.

Ece Kamar, Ashish Kapoor and Eric Horvitz. Lifelong Learning for Acquiring the Wisdom of the Crowd. In Proceedings of IJCAI 2013.

Stephanie Rosenthal, Dan Bohus, Ece Kamar and Eric Horvitz. Look versus Leap: Computing Value of Information with High-Dimensional Streaming Evidence. In Proceedings of IJCAI 2013.

Ece Kamar and Eric Horvitz. Light at the End of the Tunnel: A Monte Carlo Approach to Computing Value of Information. In Proceedings of AAMAS 2013.

Ece Kamar, Severin Hacker and Eric Horvitz. Combining Human and Machine Intelligence in Large-scale Crowdsourcing. In Proceedings of AAMAS 2012.

William Wang, Dan Bohus, Ece Kamar and Eric Horvitz. Crowdsourcing the Acquisition of Natural Language Corpora: Methods and Observations. In Proceedings of SLT 2012.

Ece Kamar, Ya'akov Gal and Barbara J. Grosz. Modeling User Perception of Interaction Opportunities for Effective Teamwork. SIN09, In Proceedings of IEEE SocialCom 2009.

Ece Kamar and Eric Horvitz. Generating Shared Transportation Plans Under Varying Preferences: Ridesharing Models and Mechanisms. Microsoft Research Technical report, MSR-TR-2009-2011, April 2009.

Ece Kamar, Ya'akov Gal and Barbara J. Grosz. Incorporating Helpful Behavior into Collaborative Planning. In Proceedings of AAMAS 2009.

- Ece Kamar, Eric Horvitz and Chris Meek. Mobile Opportunistic Commerce: Mechanisms, Architecture, and Application. In Proceedings of AAMAS 2008.
- Short Conference Papers Zheng Wang, Bruno Abrahao, Ece Kamar. Supervised Discovery of Unknown Unknowns through Test Sample Mining, AAAI 2020 Student Abstract.
- Ece Kamar and Eric Horvitz. Incentives for Truthful Reporting in Crowdsourcing. In Proceedings of AAMAS 2012.
- Ece Kamar and Eric Horvitz. Jogger: Models for Context-Sensitive Reminding. In Proceedings of AAMAS 2011.
- Workshop Papers Besmira Nushi, Ece Kamar, Donald Kossmann and Eric Horvitz. A Human-in-the-loop Approach for Troubleshooting Machine Learning Systems, NIPS Workshop on Future of Interactive Learning Machines 2017.
- Himabindu Lakkaraju, Ece Kamar, Rich Caruana and Eric Horvitz. Discovering Unknown Unknowns of Predictive Models, NIPS Workshop on Reliable Machine Learning in the Wild 2017.
- Ece Kamar and Lydia Manikonda. Complementing the Execution of AI Systems with Human Computation, AAAI Workshop on Crowdsourcing, Deep Learning and Artificial Intelligence Agents 2017.
- Ece Kamar. Hybrid Intelligence and the Future of Work. In Proceedings of the Productivity Decomposed: Getting Big Things Done with Little Microtasks Workshop at CHI 2016.
- Cathy Wu, Ece Kamar and Eric Horvitz. Clustering for Set Partitioning: A Case Study in Carpooling. In Proceedings of the Workshop on Optimization for Machine Learning (OPT) at NIPS 2015.
- Walter. S. Lasecki, Jaime Teevan and Ece Kamar. The Cost of Asking Crowd Workers to Behave Maliciously. In Proceedings of the Workshop on Human-Agent Interaction Design and Models (HAIDM 2015) at AAMAS 2015.
- Walter S. Lasecki, Mitchell Gordon, Jaime Teevan, Ece Kamar and Jeff P. Bigham. Preserving Privacy in Crowd-Powered Systems. In Proceedings of the Workshop on Human-Agent Interaction Design and Models (HAIDM 2015) at AAMAS 2015.
- Walter Lasecki, Ece Kamar and Dan Bohus. Conversations in the Crowd: Collecting Data for Task-Oriented Dialog Learning. In Proceedings of the Human Computation Workshop on Scaling Speech and Language Understanding and Dialog through Crowdsourcing at HCOMP 2013.
- Dan Bohus, Ece Kamar and Eric Horvitz. Towards Situated Collaboration. In NAACL Workshop on Future Directions and Challenges in Spoken Dialog Systems: Tools and Data, 2012.

Paul Bennett, Ece Kamar and Gabriella Kazai. MSRC at TREC 2011 Crowdsourcing Track. In Proceedings of TREC 2011.

Ece Kamar and Barbara J. Grosz. Applying MDP Approaches For Estimating Outcome of Interaction in Collaborative Human-Computer Settings. In Proceedings of Workshop on Multi-agent Sequential Decision Making in Uncertain Domains (MSDM) 2007.

Magazine Articles Sandhya Saisubramanian, Shlomo Zilberstein, and Ece Kamar. Avoiding Negative Side Effects due to Incomplete Knowledge of AI Systems, To appear in AI Magazine Winter 2021 edition.

Anhong Guo, Ece Kamar, Jennifer Wortman Vaughan, Hanna Wallach, Meredith Ringel Morris. Toward Fairness in AI for People with Disabilities: A Research Roadmap, ACM SIGACCESS Accessibility and Computing 2020

Ece Kamar. Hybrid workplaces of the future. XRDS: The ACM Magazine for Students 2016.

Thesis Ece Kamar. Reasoning Effectively Under Uncertainty for Human-Computer Teamwork. Ph.D. Thesis, Harvard University, May 2010.

Technical Reports Ramya Ramakrishnan, Vaibhav Unhelkar, Ece Kamar, Julie Shah. A Bayesian Approach to Identifying Representational Errors, arXiv preprint arXiv:2103.15171

Kaivalya Rawal, Ece Kamar, Himabindu Lakkaraju. Can I Still Trust You?: Understanding the Impact of Distribution Shifts on Algorithmic Recourses, arXiv preprint arXiv:2012.11788

Ivan Evtimov, Weidong Cui, Ece Kamar, Emre Kiciman, Tadayoshi Kohno, Jerry Li. Security and Machine Learning in the Real World, arXiv preprint arXiv:2007.07205

Ece Kamar and Eric Horvitz. Investigation of Principles of Context-Sensitive Reminding. Microsoft Research Technical report, MSR-TR-2010-174, October 2010.

Ece Kamar and Eric Horvitz. Generating Shared Transportation Plans Under Varying Preferences: Ridesharing Models and Mechanisms. Microsoft Research Technical report, MSR-TR-2009-2011, April 2009.

PATENTS

2017(granted) Travel Path Identification based upon Statistical Relationships between Path Costs. Ashish Kapoor, Debadeepta Dey, Andrey Kolobov, Semiha Ece Kamar Eden, Richard Caruana, Eric Horvitz. Patent Number: 9714831

2016 (granted) Monte-Carlo Approach to Computing Value of Information. Eric J. Horvitz and Semiha E. Kamar Eden. Patent Number: 9367815.

2016 (applied) Providing Rewards and Metrics for Completion of Microtasks. Jaime Teevan, Saleema Amershi, Shamsi Iqbal, Dan Liebling, Semiha Ece Kamar Eden, Kristina

- Toutanova, Robert Gruen, Darren Gehring, Pallavi Choudhury, Ann Paradiso, and Tony Carbary.
- 2014 (applied) Stochastic Privacy. Eric J. Horvitz, Ece Kamar, Ryen W. White, Adish Singla. Application Number: 14/447563.
- Travel Path Identification Based Upon Statistical Relationships between Path Costs. Ashish Kapoor, Debadeepta Dey, Andrey Kolobov, Semiha Ece Kamar Eden, Richard Caruana, Eric Horvitz. Application Number:14/324861.
- Evaluating Workers in a Crowdsourcing Environment. Semiha Ece Kamar Eden, Rajesh Patel, Steven Shelford, Hai Wu, David Molnar, Eric Horvitz. Application Number: 14/300115.
- 2013 (applied) Value of Information with Streaming Evidence. Dan Bohus, Eric J. Horvitz, Stephanie Rosenthal Pomerantz, Semiha E. Kamar Eden. Application Number: 13/831688
- Hiring, Routing , Fusing and Paying for Crowdsourcing Contributions. Eric J. Horvitz and Semiha E. Kamar Eden. Application Number: 13/843293
- Spatiotemporal Crowdsourcing. Eric Horvitz, John Krumm, Semiha Ece Kamar Eden, Adam Sadilek. Application Number: 13/831652.
- 2011 (granted) Combining predictive models of forgetting, relevance, and cost of interruption to guide automated reminding. Semiha Ece Kamar and Eric J. Horvitz. U.S. Patent No. 7,996,338.
- 2011 (applied) Multi-step Impression Campaigns. Eric Horvitz, Lili Cheng, Roger Barga, Xuedong Hiang, Zachary Apter, Semiha Ece Kamar. Application Number: 13/174329.
- 2009 (applied) Mechanisms and Architecture for Mobile Opportunistic Commerce. Semiha Ece Kamar, Eric Horvitz and Christopher Meek. Application Number: 12/492861.
- Generation of Impression Plans for Presenting and Sequencing Advertisement and Sales Opportunities along Potential Routes. Semiha Ece Kamar, Eric Horvitz, Christopher Meek, Stephen Lombardi. Application Number: 12/492861.
- Collaborative Plan Generation based on Varying Preferences and Constraints. Ece Kamar and Eric Horvitz. Application Number: 12/491635.
- February 2015 Synergy of Machine Intelligence and Human Computation, University of Washington AI Seminar

RESEARCH ADVISEES & INTERNS

- 2018-present Gagan Bansal (University of Washington, thesis committee, MSR intern)
Sandhya Saisubramanian (University of Amherst, thesis committee)
- 2020-2021 Anagha Kulkarni (Arizona State University, thesis committee)
- 2020 Joon Sung Park (Stanford University, MSR intern)
Sahil Singla (Georgia Tech University, MSR intern)
Ike Lage (Harvard University, MSR intern)
Megha Srivastava (MSR resident)
- 2019-2020 Ivan Evtimov (University of Washington, MSR intern)
- 2017-2019 Ramya Ramakrishnan (MIT, MSR intern, thesis committee)
- 2019 Anhong Guo (CMU, MSR intern)

- Bryan Wilder (Harvard University, MSR intern)
 Ramprasaath R Selvaraju (Georgia Tech University, MSR intern)
 Andi Peng (MSR resident)
- 2016-present Jonathan Bragg (University of Washington, thesis committee)
- 2017 Yongsung Kim (Northwestern University, MSR intern)
 Tongshuang Sherry Wu (University of Washington, MSR intern)
- 2016 Himabindu Lakkaraju (Stanford University, MSR intern)
 Elliot Salisbury (University of Southampton, MSR intern)
 Joseph Chee Chang (Carnegie Mellon University, MSR intern)
- 2015 Ofra Amir (Harvard University, MSR intern)
 Besmira Nushi (ETH Zurich, MSR intern)
 Lydia Manikonda (Arizona State University, MSR intern)
 Cathy Wu (University of California at Berkeley, MSR intern)
 Niloufar Salehi (Stanford University, MSR intern)
- 2014 Shayan Doroudi (Carnegie Mellon University, MSR intern)
- 2013, 2014 Christopher Lin (University of Washington, MSR intern)
- 2012, 2013 Walter Lasecki (University of Rochester, MSR intern)
- 2013 Andrew Mao (Harvard University, MSR intern)
- 2011, 2012 William Wang (Carnegie Mellon University, MSR intern)

AWARDS AND HONORS

- 2020 AAAI Senior Member
- 2020 IJCAI Distinguished Paper
- 2019 IEEE/ACM 41st International Conference on Software Engineering: Software Engineering in Practice Best Paper Award
- 2019 ICML DebugML Workshop Best Demo
- 2018 AAAI HCOMP Best Paper Honorable Mention
- 2017 AAAI HCOMP Best Paper
- 2017 ACM CSCW Honorable Mention
- 2016 IEEE Intelligent Transportation Systems Conference (IEEE ITSC) Best Paper Award
- 2008 Microsoft Research Graduate Research Fellowship Award
- 2006 Robert L. Wallace Prize Fellowship
- 2005 Harvard University Graduate Fellowship
- 2001 Sabanci University Undergraduate Fellowship
 (Awarded for success in the National University Entrance Exam, ranked 21st among a million students)

PROFESSIONAL ACTIVITIES

- Program Co-chair HCOMP 2021
- Program Co-chair AAAI 2018, Emerging Topics on Human-AI Collaboration
- Area Chair IJCAI 2016, AAAI 2019
- Member Inaugural class of the ACM Future of Computing Academy
- Study Panel Member One Hundred Year Study on Artificial Intelligence (AI100)
- Program Co-chair HCOMP Work in Progress Track HCOMP 2016, 2017
- Senior Committee IJCAI 2017, IJCAI 2018, IJCAI 2019, AAMAS 2014, AAMAS 2015, AAMAS 2016, IJCAI 2011
- Member

Program Committee Collective Intelligence 2017, WWW 2014, UAI 2011, UAI 2012, UAI 2013, HCOMP
Member 2012, HCOMP 2013, AAMAS 2011,AAMAS 2012
Organizer Workshop on Human-Agent Interaction Design and Models at AAMAS, 2015; at IJCAI
2016