

MIN KYUNG LEE

Assistant Professor
School of Information, University of Texas at Austin

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EDUCATION

Carnegie Mellon University, School of Computer Science, HCI Institute, Fall 2013

Ph.D. in Human-Computer Interaction

Sara Kiesler (co-chair), Jodi Forlizzi (co-chair), John Zimmerman, and Leila Takayama

Thesis: Designing Personalization in Technology-Based Services

Carnegie Mellon University, School of Computer Science, HCI Institute, 2011

Master of Human-Computer Interaction

Carnegie Mellon University, School of Design, 2007

Master of Design in Interaction Design

Advisors: John Zimmerman, Anind K. Dey and Jodi Forlizzi

Korea Advanced Institute of Science and Technology, 2004

Bachelor of Science, Industrial Design

Summa Cum Laude

Institut National des Sciences Appliquées de Lyon, France, 2001-2002

Exchange student in Industrial Engineering (Département de Génie Productique)

RESEARCH INTERESTS

Human-computer interaction, computer-supported collaborative work, human-centered artificial intelligence, algorithmic fairness & transparency, human-robot interaction, design

HONORS & AWARDS

ACM MobiSys 2019 Best Demo Award

Mechanism Design for Social Good (MD4SG) Workshop 2019 Popular Poster Award

ACM CSCW 2017 Best Paper Honorable Mention

Winner, NSF Cyber-Physical Systems Early-Career Investigator's (NSF-ECI) Research Competition, CPS Week 2015

Rising Stars in EECS 2015

Allen Newell Award for Research Excellence 2013

Vanderbilt Agency Conference 2012 Best Student Research Award

ACM DIS 2012 Best Paper Award

ACM/SIGCHI CHI 2011 Best Paper Honorable Mention

ACM/IEEE HRI 2010 Best Paper Award

ACM/IEEE HRI 2010 Best Video Honorable Mention

Design & Emotion 2006 Best Paper Award

Siebel Scholar, 2012-2013

Scholarship awarded for academic excellence and demonstrated leadership to 85 top students from the world's leading business, computer science, and bioengineering schools

Kwanjeong Lee Jong Hwan Scholarship, 2007-2010

Scholarship awarded annually for \$50,000 for tuition and stipend

Samsung Lee Kun Hee Scholarship, 2005-2007

Scholarship awarded annually for \$50,000 for tuition and stipend

Rotary Ambassadorial Scholar, 2005-2006

Scholarship to increase international understanding across different countries

PRIX de l'INSA-Lyon (France), 2004

Awarded President's Prize for top rated exchange students

KAIST Honorary List for Graduates, 2004

Graduated *Summa Cum Laude*

Government Fellowship | Korea Ministry of Science and Technology, 1999-2004

PROFESSIONAL EXPERIENCE

University of Texas at Austin

School of Information, Assistant Professor, January 2020-Present

Department of Computer Science, Graduate Studies Committee, January 2020-Present

Carnegie Mellon University

Machine Learning Department, Center for Machine Learning and Health

Research Scientist, October 2015-December 2019

School of Computer Science, HCI Institute

Postdoctoral fellow with Laura Dabbish, October 2013-September 2015

Willow Garage, Summer 2010

Visiting scholar, responsible for fieldwork on mobile remote presence in organizations

Stanford, Center for Work, Technology & Organization, Summer 2010

Visiting scholar, responsible for research on design approaches to organizational changes

Carnegie Mellon University, School of Computer Science, HCI Institute, 2006

Research assistant, responsible for ethnographic field study and design for smart home research

SK Telecom, 2004

Interaction designer, responsible for conception, prototyping, and evaluation of interface for an autonomous home robot and intelligent information services for a mobile phone

Motorola, Winter 2003

Interaction designer intern, responsible for cultural study of Korea, China, and Japan and mobile phone interface design

Philips Design in Paris, Summer 2002

Interaction designer intern, responsible for new mobile phone interface design

GRANTS

NSF: SCC. Empowering and enhancing workers through building a community-centered gig economy

Co-Principal Investigator (with Haiyi Zhu, Gordon Burtch, Yanhua Li, Steven Wu)
\$2,000,000. October 2020-September 2023

NSF: RAPID. Trust in public health information during a pandemic

Co-Principal Investigator (with Ken Fleischmann and Bo Xie)
\$194,774. May 2020-April 2021

UT Austin Good Systems Grant: Smart cities should be good cities: AI, equity, and homelessness

Co-Principal Investigator (with Sherri R. Greenberg, Ken Fleischmann, and Stephen Slota)
\$192,000. September 2020-August 2021

UT Austin Good Systems Grant: Inclusive and trustworthy AI governance design

Principal Investigator (with Virginia A. Brown)
\$20,000. September 2020-August 2021

NSF: FAI. Advancing fairness in AI with human-algorithm collaboration

Co-Principal Investigator (with Steven Wu, Alex Chouldechova, and Haiyi Zhu)
\$1,037,000. January 2020-December 2022

UT Austin Healthcare Technology, Communication, and Privacy Seed Grant: Health consumers' and clinicians' perceptions of healthcare AI: Promoting trust, privacy and shared decision Making

Principal Investigator (with Bo Xie and Joydeep Ghosh)
\$16,944. January 2020-August 2021

CMU Block Center for Technology & Society: Designing fair algorithmic governance for smart community work

Principal Investigator (with Ariel Procaccia)
\$30,000. June 2019-December 2019

Uptake: Collective creation of a fair allocation algorithm: Machine learning and social choice approach

Principal Investigator (with Ariel Procaccia)
\$75,000. January 2018-January 2019

NSF: CPS EAGER. SOCIUS: Socially responsible smart cities

Principal Investigator (with Yasser Shoukry, Vasumathi Raman, and Mani Srivastava)
\$200,000. September 2016-August 2018

PUBLICATIONS

The top-tier venues in human-computer interaction research include ACM CHI, CSCW, Ubicomp, and HRI conferences. (Google Scholar: 3103 citations, h-index: 26)

JOURNAL ARTICLES

1. Xie, B., He, D., Mercer, T., Wang, Y., Wu, D., Fleischmann, K. R., Zhang, Y., Yoder, L. H., Stephens, K. K., Mackert, M. & Lee, M. K. (2020). Global health crises are also information crises: A call to action. *Journal of the Association for Information Science and Technology (JASIST)*.

2. **Lee, M. K.**, Kusbit, D., Kahng, A., Kim, J. T., Yuan, X., Chan, A., Noothigattu, R., See, D., Lee, S., Psomas, C. A., & Procaccia, A. (2019). WeBuildAI: Participatory framework for algorithmic governance. In *Proceedings of the ACM : Human-Computer Interaction: Volume 3 Issue CSCW. (CSCW 2019)*. Article 181, 35 pages.
3. **Lee, M. K.**, Jain, A., Cha, H. J., Ojha, S., & Kusbit, D. (2019). Procedural justice in algorithmic fairness: Leveraging transparency and outcome control for fair algorithmic mediation. In *Proceedings of the ACM : Human-Computer Interaction: Volume 3 Issue CSCW. (CSCW 2019)*. Article 182, 26 pages.
4. **Lee, M. K.** (2018). Understanding perception of algorithmic decisions: Fairness, trust and emotion in response to algorithmic management. In *Big Data & Society*, 5(1). 16 pages.
5. Strabala, K., **Lee, M. K.**, Dragan, A., Forlizzi, J., Srinivasa, S, Cakmak, M., & Micelli, V. (2013). Toward seamless human-robot handovers. *Journal of Human-Robot Interaction*, 2(1), 112-132.

CONFERENCE PAPERS

6. Kahng, A., **Lee, M. K.**, Noothigattu, R., Procaccia, A. D., & Psomas, C. A. (2019). Statistical foundations of virtual democracy. In *Proceedings of the 36th International Conference on Machine Learning (ICML 2019)*, 3173-3182.
7. Eslami, M., Vaccaro, K., **Lee, M. K.**, Elazari, A., Gilbert, E., & Kahalios, K. (2019). User attitudes towards algorithmic opacity and transparency in online reviewing platforms. In *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2019)*. Paper No. 494. 23% acceptance rate.
8. Kang, B., Hwang, I., Lee, J., Lee, S., Lee, T., Chang, Y., & **Lee, M. K.** (2018). My being to your place, your being to my place: Co-present robotic avatars create illusion of living together. In *Proceedings of the 16th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys 2018)*, 54-67. 17% acceptance rate.
9. Tsai, H., Shoukry, Y., **Lee, M. K.**, & Raman, V. (2017). Towards a socially responsible smart city: Dynamic resource allocation for smarter community service. In *Proceedings of the 4th ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys 2017)*. 31% acceptance rate.
10. **Lee, M. K.**, Kim, J. & Lizarondo, L. (2017). A human-centered approach to algorithmic services: Considerations for fair and motivating smart community service management that allocates donations to non-profit organizations. In *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2017)*, 3365-3376. 25% acceptance rate.
11. **Lee, M. K.** & Baykal S. (2017) Algorithmic mediation in group decisions: Fairness perceptions of algorithmically mediated vs. discussion-based social division. In *Proceedings of the ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW 2017)*, 1035-1048. 35% acceptance rate.
Best Paper Honorable Mention
12. **Lee, M. K.**, Kim, J., Forlizzi, J., & Kiesler, S. (2015). Personalization revisited: A reflective approach helps people better personalize health services and motivates them to increase physical activities. In *Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2015)*, 743-754. 24% acceptance rate.

13. **Lee, M. K.**, Kusbit, D., Metsky, E., & Dabbish, L. (2015). Working with machines: The impact of algorithmic, data-driven management on human workers. In *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2015)*, 1603-1612. 23% acceptance rate.
14. **Lee, M. K.**, Fruchter, N., & Dabbish, L. (2015). Making decisions from a distance: The impact of technological mediation on riskiness and dehumanization. In *Proceedings of the ACM Conference on Computer-Supported Cooperative Work (CSCW 2015)*, 1576-1589. 28% acceptance rate.
15. **Lee, M. K.**, Kiesler, S., Forlizzi, J., & Rybski, P. (2012). Ripple effects of embedded social agents: Field study of a social robot in the workplace. In *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2012)*, 695-704. 23% acceptance rate.
16. **Lee, M. K.**, Forlizzi, J., Kiesler, S., Rybski, P., Antanitis, J., & Savetsila, S. (2012). Personalization in HRI: A longitudinal field experiment. In *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2012)*, 319-326. 25% acceptance rate.
17. Odom, W., Zimmerman, J., Davidoff, S., Forlizzi, J., Dey, A. K., & **Lee, M. K.** (2012). A fieldwork of the future with user enactments. In *Proceedings of the ACM Conference on Designing Interactive Systems (DIS 2012)*. 338-347. 26% acceptance rate.
Best Paper Award
18. Strabala, K., **Lee, M. K.**, Dragan, A., Forlizzi, J., & Srinivasa, S. (2012). Learning the communication of intent prior to physical collaboration. In *Proceedings of the IEEE Symposium on Robot and Human Interactive Communication (RO-MAN 2012)*, 968-973.
19. **Lee, M.K.** & Takayama, L. (2011). "Now, I have a body": Uses and social norms for mobile remote presence in the workplace. In *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2011)*, 33-42. 26% acceptance rate.
Best Paper Honorable Mention
20. **Lee, M.K.**, Kiesler, S., & Forlizzi, J. (2011). Mining behavioral economics to design persuasive technology for healthy choices. In *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2011)*, 325-334. 26% acceptance rate.
21. Cakmak, M., Srinivasa, S., **Lee, M.K.**, Kiesler, S., & Forlizzi, J. (2011). Using spatial and temporal contrast for fluent robot-human hand-overs. In *Proceedings of the ACM/IEEE International Conference on Human Robot Interaction (HRI 2011)*, 489-496. 22% acceptance rate.
22. Cakmak, M., Srinivasa, S., **Lee, M.K.**, Forlizzi, J., & Kiesler, S. (2011). Human preferences in robot-human hand-over configurations. In *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2011)*, 1986-1993. 32% acceptance rate.
23. **Lee, M.K.**, Kiesler, S., & Forlizzi, J. (2010). Receptionist or information kiosk? How do people talk with a robot? In *Proceedings of the ACM Conference on Computer-Supported Cooperative Work (CSCW 2010)*, 31-40. 20% acceptance rate.
24. **Lee, M.K.**, Kiesler, S., Forlizzi, J., Srinivasa, S., & Rybski, P. (2010). Gracefully mitigating breakdowns in robotic services. In *Proceedings of the ACM/IEEE International Conference on Human Robot Interaction (HRI 2010)*, 203-210. 21% acceptance rate.
Best Paper Award

25. **Lee, M.K.**, Forlizzi, J., Rybski, P.E., Crabbe, F., Chung, W., Finkle, J., Glaser, E., & Kiesler, S. (2009). The Snackbot: Documenting the design of a robot for long-term human-robot interaction. In *Proceedings of the ACM/IEEE International Conference on Human Robot Interaction (HRI 2009)*, 7-14. 19% acceptance rate.
26. **Lee, M.K.** & Forlizzi, J. (2009). Designing adaptive robotic services. In *Proceedings of the International Association of Societies of Design Research (IASDR 2009)*.
27. Davidoff, S., **Lee, M.K.**, Dey, A.K., & Zimmerman, J. (2007). Rapidly exploring application design through speed dating. In *Proceedings of the International Conference on Ubiquitous Computing (UbiComp 2007)*, 429-446. 19% acceptance rate.
28. **Lee, M.K.**, Davidoff, S., Zimmerman, J., & Dey, A.K. (2007). Smart bag: Managing home and raising children. In *Proceedings of the International Conference on Designing Pleasurable Products and Interfaces (DPPI 2007)*, 434-437.
29. **Lee, M.K.**, Davidoff, S., Zimmerman, J., & Dey, A.K. (2006). Smart homes, families and control. In *Proceedings of the International Conference on Design & Emotion (D&E 2006)* **Best Paper Award**
30. Davidoff, S., **Lee, M.K.**, Yiu, C., Zimmerman, J., & Dey, A.K. (2006). Principles of smart home control. In *Proceedings of the International Conference on Ubiquitous Computing (UbiComp 2006)*, 19-34. 13% acceptance rate.

BOOK CHAPTER

31. **Lee, M.K.**, Davidoff, S., Zimmerman, J., & Dey, A.K. (2008). Designing for control: Finding roles for smart homes. In P. Desmet, J. van Erp, and M. Karlsson (eds.), *Design & Emotion Moves* (pp. 246-266). UK:Cambridge Scholars Publishing.

MAGAZINE ARTICLES

32. **Lee, M. K.** Algorithmic bosses, robotic colleagues: Toward human-centered algorithmic workplaces. (2017). In *XRDS: Crossroads, The ACM Magazine for Students*, 23(2), 42-47.
33. Simmons, R., Makatchev, M., Kirby, R., **Lee, M. K.**, Fanaswala, I., Browning, B., Forlizzi, J., & Sakr, M. (2011). Believable robot characters. In *AAAI AI Magazine*, 32(4), 39-52.

EXTENDED ABSTRACTS & WORKSHOP PAPERS (PEER-REVIEWED)

34. Tomprou, M. & Lee, M.K. (2019). Psychological Contracts in Algorithmic Management. In *Proceedings of Annual Meeting of Academy of Management (AOM 2019)*, Boston, USA.
35. Kang, B., Hwang, I., Lee, J., Lee, S., Lee, T., Chang, Y., & Lee, M. K. (2019). Towards Peripheral Awareness of Remote Family Member's Context Using Self-mobile Robotic Avatars (Demo). In *Proceedings of the 17th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys 2019)*, 677-678. **Best Demo Award**
36. **Lee, M. K.**, Kusbit, D., Kahng, A., Kim, J. T., Yuan, X., Chan, A., Noothigattu, R., See, D., Lee, S., Psomas, C. A., & Procaccia, A. (2019). WeBuildAI: Participatory framework for algorithmic governance. *The third workshop on Mechanism Design for Social Good (MD4SG 2019) at 20th ACM Conference on Economics and Computation (EC 2019)*. **Popular Poster Award**

37. Kang, B., Hwang, I., Lee, J., Lee, S., Lee, T., Chang, Y., & **Lee, M. K.** (2018). HomeMeld: Co-present Robotic Avatar System for Illusion of Living Together. In *Proceedings of the 16th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys 2018)*, 545-545.
38. **Lee, M. K.**, Otto, L., Kang, V., Raman, V. & Shoukry, Y. (2016). Location-based services for homeless population. *Urban Homelessness and Underserved Communities Workshop at the Eighth International Conference on Social Informatics (SocInfo 2016)*.
39. Kim, M., **Lee, M.K.**, & Dabbish, L. (2015). Shop-i: Gaze based interaction in the physical world for in-store social shopping experience. In *Proceedings of the ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA 2015)*, 1253-1258. 25% acceptance rate
40. **Lee, M.K.** (2011). Opportunities and challenges in mining behavioral economics to design persuasive technology. *CHI 2011 PINC (Persuasion, Influence, Nudge & Coercion through mobile devices) workshop*.
41. **Lee, M.K.**, Tang, K. P., Forlizzi, J., & Kiesler, S. (2011). Understanding users' perception of privacy in human-robot interaction. In *Late-breaking Reports of Human-Robot Interaction (HRI 2011)*, 181-182.
42. **Lee, M.K.**, Forlizz, J., Kiesler, S., Cakmak, M., & Srinivasa, S. (2011). Predictability or adaptivity? Designing robot handoffs modeled from trained dogs and people. In *Late-breaking Reports of Human-Robot Interaction (HRI 2011)*, 179-180.
43. Kim, M.S., Cha, B.K., Park, D.M., Lee, S.M., Kwak, S., & **Lee, M.K.** (2010). Dona: Urban donation motivating robot. In *Video Session of Human-Robot Interaction (HRI 2010)*.
Best Video Honorable Mention
44. Kim, M.S., Cha, B.K., Park, D.M., Lee, S.M., Kwak, S., & **Lee, M.K.** (2010). Dona: Urban donation motivating robot. In *Late-breaking Reports of Human-Robot Interaction (HRI 2010)*, 159-160.
45. **Lee, M.K.**, Dillahunt, T., Pendleton, B., Kraut, R., & Kiesler, S. (2009). Tailoring websites to increase contributions to online communities. In *Extended Abstracts of Human Factors in Computing Systems (CHI EA 2009)*, 4003-4008.
46. **Lee, M.K.** & Makatchev, M. (2009). How do people talk with a robot: An analysis of human-robot dialogues in the real world. In *Extended Abstracts of Human Factors in Computing Systems (CHI EA 2009)*, 3769-3774. 25% acceptance rate
47. Makatchev, M., **Lee, M.K.**, & Simmons, R. (2009). Relating initial turns of human-robot dialogues to discourse. In *Late-breaking Reports of Human-Robot Interaction (HRI 2009)*, 321-322.
48. Davidoff, S., **Lee, M.K.**, Zimmerman, J., & Dey, A.K. (2006). Socially-aware requirements for a smart home for families. In *Proceedings of the International Symposium on Intelligent Environments*, 45-48.

PATENT

49. **Min Kyung Lee**, Myoung Seock Kim: Interactive Toy Set, KAIST, KR#0513261

SOFTWARE & METHOD

50. Socius: Collaborative application for outreach workers (<http://socius.herokuapp.com>)

51. Speed-Dating design method: A design prototyping method included in about 140 academic publications; the curricula of HCI and interaction design courses in universities including Carnegie Mellon University, KAIST, and University of Michigan; and a design method book, *Universal methods of design: 100 ways to research complex problems, develop innovative ideas, and design effective solutions* (Rockport Publishers, 2012)

PAPERS IN SUBMISSION & PREPARATION

Tomprou, M. & Lee, M. K. (In Preparation). Employment relationship in algorithmic management: A psychological contract perspective. *AOM Presentation: Tomprou, M. & Lee, M.K. (2019). Psychological Contracts in Algorithmic Management. In *Proceedings of Annual Meeting of Academy of Management*, Boston, USA.

Tsai, D., Wong, G., Shoukry, Y., & Lee, M. K. (In Preparation). SOCIUS: A resource allocation framework for socially responsible smart cities.

PROFESSIONAL SERVICE

JOURNAL EDITORIAL BOARD

ACM Transactions on Human-Robot Interaction (THRI), Associate Editor, 2017-now

Special Issue on Unifying Human-Computer Interaction and Artificial Intelligence for Journal of Human Computer Interaction, Taylor & Francis, Co-Editor, 2019-2020

CONFERENCE ORGANIZATION

ACM/SIGCHI CHI Conference Program Committee Associate Chair 2018, 2019

ACM/SIGCHI CHI Conference Telepresence Chair 2017

Robotics: Science and Systems (RSS) Program Committee 2017

ACM/IEEE HRI Conference Program Committee Associate Chair 2015, 2016, 2017

ACM Ubicomp Conference Program Committee Associate Chair 2016

ACM/SIGCHI CHI Conference Work-In-Progress Associate Chair 2010

HRI Student Volunteers Co-Chair 2010

Sharing Experiences Conference Co-Chair 2009

Conference co-chair. Co-organized with Jaewoo Chung (MIT Media Lab), Keywon Chung (MIT Media Lab), Jieun Hwang (Univ. of Seoul), Seonghyuck Lee (Oracle). Instructed a three day workshop on designing robotic services in conjunction with the conference.

Emergence 2007 Conference Program Committee, Carnegie Mellon University

The first conference on service design in US, which spun off Service Design Network (www.service-design-network.org). Responsible for coordinating reviews of paper submissions.

PANEL & WORKSHOP ORGANIZATION

ACM/SIGCHI CHI 2020 Workshop - Human-Centered Approaches to Fair and Responsible AI. [[Workshop website](#)]

Lead organizer, with Nina Grgic-Hlaca (Max Planck Institute), Michael Carl Tschantz (International CS Institute), Reuben Binns (University of Oxford), Adrian Weller (University of Cambridge), Michelle Carney (Google AI), and Kori Inkpen (Microsoft Research)

ACM CSCW 2018 Workshop - The Changing Contours of Participation in Data-driven, Algorithmic Ecosystems: Challenges, Tactics, and an Agenda.

Co-organizer, with Christine T. Wolf (IBM Research), Haiyi Zhu (Univ. of Minnesota), Julia Bullard (Univ. of British Columbia), and Jed R. Brubaker (Univ. of Colorado Boulder)

ACM/SIGCHI CHI 2016 Panel - Algorithmic Authority: The Ethics, Politics, and Economics of Algorithms that Interpret, Decide, and Manage

Co-organizer, with Caitlin Lustig (UC Irvine), Katie Pine (UC Irvine), Bonnie Nardi (UC Irvine), Lilly Irani (UC San Diego), Dawn Nafus (Intel), and Christian Sandvig (Univ. of Michigan)

ACM CSCW 2016 Workshop - Algorithms at Work

Co-organizer, with Susann Wagenknecht (Univ. of Siegen), Caitlin Lustig (UC Irvine), Jacki O'Neill (Microsoft), and Himanshu Zade (Univ. of Washington)

Global Service Jam 2012

Co-organizer, with Lauren Champman and Abby Wilson (Maya Design); Mark Choi, Hakon Faste, Ian Hargraves, Miso Kim, and Chongho Lee (CMU School of Design); and Gabriella Marcu (CMU HCI Institute).

HRI Pioneers Workshop 2010

Co-organizer, with Kate Tsui (UML), Henriette Cramer (Univ. of Amsterdam), Osawa Hirotaka (Keio Univ.), Laurel Riek (Univ. of Cambridge), Satoru Satake (ATR), Kristen Stubbs (iRobot), and Ja-Young Sung (Georgia Tech).

REVIEWING

Journals Artificial Intelligence Journal (Elsevier) 2020
Law and Society Review 2020
Nature Human Behavior 2019
Big Data & Society 2017-2019
Journal of Computer-Mediated Communication 2016-2017, 2020
ACM Transactions on Computer-Human Interaction (ToCHI) 2016
International Journal of Social Robotics 2010-2017
IEEE Pervasive Computing 2014-2015
Journal of Human-Robot Interaction 2012, 2015
ACM Transactions on Interactive Intelligent Systems 2011
Interaction Studies 2011
Journal of Behavioral Robotics 2010
International Journal of Design 2010

Conferences ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI) 2009-2020
ACM/IEEE International Conference on Human Robot Interaction (HRI) 2009-2018
ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW) 2015-2017, 2019-2020
ACM Conference on Designing Interactive Systems (DIS) 2012, 2016, 2019
ACM Conference on Ubiquitous Computing (UbiComp) 2016
IEEE Pervasive Magazine 2014-2015
Graphics Interface 2011 International Journal of Design 2010

Grants National Science Foundation 2016, 2018, 2020
Royal Society of New Zealand-Marsden Fund 2016

VOLUNTEERING

Reviewer for National Center for Women Information Technology Award for Aspirations in Computing 2009

Student volunteer

CHI 2009, Service Design Network 2010, HRI 2011, HRI 2012

INVITED TALKS

1. Assured Autonomy Workshop. Army Research Office sponsored workshop, June 24, 2020. *Responsible autonomy: Enabling participatory and procedurally-fair AI*
2. University of California, San Diego, Department of Computer Science and Engineering, La Jolla, CA. March 4, 2020. *AI for all: Enabling participatory and procedurally fair AI*
3. Korea Advanced Institute of Science and Technology, Daejeon, Korea. December 23, 2019. *AI for all: Enabling fairness and participation in AI*
4. Simons Institute for the Theory of Computing, University of California, Berkeley, Workshop on Recent Developments in Research on Fairness, Berkeley, CA. July 8, 2019. *Procedural justice in algorithmic fairness: Transparency, control and participation perspectives*
5. HCI Consortium (HCIC) Workshop on the Futures of Work, Watsonville, CA. June 26, 2019. *Algorithmic management: A mechanism of control or empowering device*
6. Collective Intelligence, Pittsburgh, PA. June 14, 2019. *WeBuildAI: Participatory framework for algorithmic governance*
7. University of Texas at Austin, School of Information, Austin, TX. April 12, 2019. *Designing people-centered AI*
8. University of California, Santa Cruz, Computational Media Department, Santa Cruz, CA. March 11, 2019. *Designing people-centered AI*
9. Stanford, Computer Science Department, Seminar on People, Computers and Design, Palo Alto, CA. January 18, 2019. *WeBuildAI: Participatory framework for algorithmic governance*

10. Carnegie Mellon University, HCI Institute, Pittsburgh, PA. April 2, 2018. *Toward fair and trustworthy algorithms*
11. Rice University, Department of Computer Science, Houston, TX. March 22, 2018. *Toward fair and trustworthy algorithms*
12. University of Pittsburgh, School of Computing, Pittsburgh, PA. March 19, 2018. *Toward fair and trustworthy algorithms*
13. University of California, Irvine, School of Information, Irvine, CA. March 12, 2018. *Toward fair and trustworthy algorithms*
14. University of Maryland, Information School, College Park, MD. March 5, 2018. *Toward fair and trustworthy algorithms*
15. Penn State University, College of Information Sciences & Technology, State College, PA. February 27, 2018. *Toward fair and trustworthy algorithms*
16. University of Minnesota, Computer Science & Engineering, Minneapolis, MN. February 23, 2018. *Toward fair and trustworthy algorithms*
17. NSF Workshop on Trustworthy Algorithmic Decision-Making, Arlington, VA. December 4, 2017. *Toward fair and trustworthy algorithms*
18. Psychology of Technology Conference, University of California, Berkeley, CA. November 3, 2017. *Toward fair and trustworthy algorithms*
19. Society for the Advancement of Socio-Economics (SASE) Conference, University of California, Berkeley, Berkeley, CA. June 25, 2016. *Working with machines: The impact of algorithmic, data-driven management on human workers*
20. University of California, Berkeley, School of Information, Berkeley, CA. April 7, 2016. *Unpacking the potential of algorithms in human matters*
21. Harvard University, Berkman Center for Internet and Society, Boston, MA. November 10, 2015. *Unpacking the potential of algorithms in human matters*
22. Rising Star in EECS, MIT, Boston, MA. November 9, 2015. *Unpacking the potential of algorithms in human matters*
23. Carnegie Mellon University, HCI Institute, Pittsburgh, PA. October 30, 2015. *Unpacking the potential of algorithms in human matters*
24. NSF Early-Career Investigator's Workshop on CPS in Smart Cities, Seattle, WA. April 13, 2015. *Designing human-centered cyber-physical systems: Algorithmic management and mediated decision-making*
25. University of Michigan, School of Information, Ann Arbor, MI. October 28, 2014. *Designing the future of work: Understanding the impact of intelligent machines on management, collaboration, and decision-making*

TEACHING EXPERIENCE

University of Texas at Austin

Human-Artificial Intelligence Interaction, School of Information
 Instructor, Spring 2020, Fall 2020

Carnegie Mellon University

Interpretable Machine Learning, HCI Institute

Guest lecturer (*Social Considerations for Algorithmic Fairness*), Spring 2019

Artificial Intelligence for Public Policy, College of Information Systems & Public Policy

Guest lecturer (*Understanding & Designing Algorithmic Management*), Fall 2018

Integrated Intelligence in Robotics: Vision, Language, and Planning, Robotics Institute

Guest lecturer (*Methods for Studying Human-AI Interaction*), Spring 2018

Programming Usable Interfaces, HCI Institute

Guest lecturer (*Design of Future Robotic Services*), Spring 2018

Environments Studio II: Designing Environments for Interaction, School of Design

Guest lecturer (*Designing Fair Algorithmic Services*), Spring 2017

Human Factors, HCI Institute

Guest lecturer. Organized a session on physiological and consumer-graded neurological sensors for human factors studies with Laura Dabbish, Spring 2015

Applied Research Methods, HCI Institute

Guest lecturer. Organized a session on physiological and consumer-graded neurological sensors as a research tool with Sara Kiesler, Fall 2014

Service Design, School of Design

Guest lecturer. Led design critiques and gave a lecture on adaptive service design, Fall 2012

Design Seminar, School of Design

Guest lecturer. Gave a lecture on the role of theory in design, Spring 2011

Basic Interaction Design, HCI Institute

Teaching Assistant with Eric Paulos and Peter Scupelli, Spring 2010

HCI Method, HCI Institute

Teaching Assistant with John Zimmerman and Aniket Kittur, Fall 2009

Basic Interaction Design, School of Design

Guest lecturer. Gave a lecture on the speed dating design method with Jodi Forlizzi, Fall 2009

Advanced Interface Design, School of Design

Teaching Assistant with Jodi Forlizzi, Fall 2006

STUDENTS

University of Texas at Austin

Joel Afriyie, 2020

Anubrata Das, 2020

Shivam Garg, 2020

Chenyan Jia, 2020

Katherine Rich, 2020

Carnegie Mellon University

Master's Students
(With Publications)

Anuraag Jain (Computer Science & HCI) 2016-2017, now at Zensors

Lisa Otto (Design) 2016-2017, now at Rize

Mirae Kim (HCI) 2014, now at World Bank Groups

Undergraduate
Students (With
Publications)

Xinran Yuan (Information Systems & HCI) 2018-2019

Daniel Kusbit (Ethics, History & Public Policy) 2014-2015, 2018, now at American Eagle

Allissa Chan (Design) 2018

Daniel See (Decision Sciences & Art) 2018

Siheon Lee (Information Systems) 2018

Ji Tae Kim (Design) 2016-2018, now at Instagram

Shashank Ojha (Computer Science) 2017

Grace Cha (Design) 2017, now at Capital One

Vincent Kang (Computer Science) 2016-2017, now at Facebook

Nathaniel Fruchter (Decision Sciences) 2014-2016, Master's degree at MIT, now at Google

Su Baykal (HCI & Cognitive Psychology) 2014-2016, now at Etsy

Evan Metsky (HCI & Cognitive Psychology) 2014-2015, Master's degree at the University of Michigan, now at Chegg

SELECTED PRESS

Algorithms & Robots
in the Workplace

How Uber drivers feel about being managed by machines in **Forbes**, May 2018 [[Link](#)]

Artificial intolerance in **MIT Technology Review**, March 2016 [[Link](#)]

On-demand workers unite online to fight Uber and the gig economy in **New Scientist**, December 2015 [[Link](#)]

When your boss is an Uber algorithm in **MIT Technology Review**, December 2015 [[Link](#)]

Detest Uber's surge pricing? Some drivers don't like it either in **CNET**, August 2015 [[Link](#)]

How Uber surge pricing really works in **the Washington Post**, April 2015 [[Link](#)]

When your boss wears metal pants in **Harvard Business Review**, June 2015 [[Link](#)]

How robots will work with us isn't only a technological question in **Harvard Business Review**, March 2014 [[Link](#)]

Why it's bad to be a robot on the phone in **The Atlantic**, November 2014 [[Link](#)]

Polite robot overlords will be more persuasive in **IEEE Spectrum**, March 2013 [[Link](#)]

How a robot can replace you at work - and how it can't in **New Scientist**, March 2011 [[Link](#)]

Just like Mombot used to make in **New York Times**, February 2010 [[Link](#)]

Snackbot: Polite host, research platform, vending machine on **CNET**, October 2009 [[Link](#)]

The new Pittsburgh on **CBS National News** (Television), September 2009 [[Link](#)]

Smart Bag **Designing interactive systems: People, activities, contexts, technologies** (Book), 2009
David Benyon, Phil Turner, and Susan Turner. Addison Wesley.

Mobile technology for children: Designing for interaction and learning (Book), 2009
Allison Drulin. Morgan Kaufmann

The Kindness Lab in **Spirit Magazine**, 2008

Speed Dating Design Method **Universal methods of design: 100 ways to research complex problems, develop innovative ideas, and design effective solutions** (Book), 2012
Bruce Hanington, Bella Martin. Rockport Publishers.

INVITED RESEARCH FORUMS

NSF Workshop on Trustworthy Algorithmic Decision-Making
Arlington, VA. December 2017

NIST & US Ignite Global City Team Challenge Expo
Washington D.C. June 2015

NSF Early-Career Investigator's Workshop on Cyber-Physical Systems in Smart Cities
Seattle, WA. April 2015

NSF/CRA 2025 The New Making Renaissance Workshop
Napa Valley, CA. June 2014

NSF Early-Career Professionals' Workshop on Exploring New Frontiers in Cyber-Physical Systems
Washington D.C. March 2014

Google GRAD Forum
Google, Mountain View, CA. January 2012

Summer Institute, Consortium for the Science of Sociotechnical Systems
Captive Island, FL. June 2011

NSF-JST joint workshop on social remote presence
Palo Alto, CA. November 2010