Hee Rin Lee

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RESEARCH INTERESTS

Labor & Automation, Worker-Centered Design, Human-Robot Interaction, Responsible AI, Critical AI Literacy

ACADEMIC APPOINTMENTS

Michigan State University — Aug. 2019 - Present
Assistant Professor

University of California San Diego — Nov. 2017 - Jul. 2019
Postdoctoral Scholar in Computer Science and Engineering — Supervisor: Laurel Riek

Indiana University — Aug. 2011 - Nov. 2017
PhD in Informatics and Computing — Advisor: Selma Šabanović
Thesis: Collaborative Design of Intelligent Technologies

Georgia Institute of Technology — Aug. 2009 - May 2011
MS in Human-Computer Interaction — Advisor: Rebecca Grinter

Georgia Institute of Technology — Aug. 2007 - May 2009
MS in Digital Media — Advisor: Carl DiSalvo

AWARDS

2026: **CHI Best Paper**, Honorable Mention (top 5% of submissions) - Critical Computing track

2026: **CHI Best Paper**, Honorable Mention (top 5% of submissions) - Understanding People track

2026: **Featured Report**, National Assembly Library of Korea

2025: **HRI Best Paper Award** (top 1% of submissions)

2025: **CHI Best Paper**, Honorable Mention (top 5% of submissions)

2024: **HRI Best Paper**, Honorable Mention (top 5% of submissions)

2023: **Google** Inclusion Research Award

2022: **ASIS&T** Best Presentation Award, SIG Artificial Intelligence (AI) Workshop

2021: **CSCW Best Paper Award** (top 1% of submissions)

2019: **CSCW Best Paper**, Honorable Mention (top 5% of submissions)

2019: **HRI Best Paper**, Honorable Mention (top 5% of submissions)

2015: Rob Kling Social Informatics Fellowship

2013: **UbiComp Best Paper**, Honorable Mention (top 5% of submissions)

2012: **CHI Best Paper**, Honorable Mention (top 5% of submissions)

RESEARCH GRANTS

National Science Foundation (NSF) |Faculty Early Career Development Program (CAREER). Worker-Centered Robot Design for Sustainable Economic Productivity. PI. (Under Review)

National Science Foundation (NSF) |Future Computing Research (Future CoRe). Integrating Robotics into Acute Care Nurse Training: A Critical Care Pedagogy Approach. Co-PI. (Under Review)

2026 **Institute of Museum and Library Services (IMLS)**|National Leadership Grants. Asset-Based AI Toolkit: Leveraging Librarian Cultural Wealth for AI Literacy. PI. Award Number: LG-260354-OLS-26

2025 **United Nations (UN)** |International Labour Organization (ILO). AI in South Korean Nursing: Current Trends and Future Vision. PI

2024 **National Science Foundation (NSF)**|Civic Innovation Challenge (CIVIC). Manufacturing Automation Toolkit (MAT): Enhancing Equity through Collaborative Visioning in Manufacturing Future. Award Number: 2431223. PI.

2023 **Google** | Inclusion Research Award. Towards Robots for Inclusive Clinical Teamwork: Empowering Nurses to Promote Patient Safety. Co-PI.

2022 **National Science Foundation (NSF)**|Future of Work. Efficient Inspection of Unpiggable Pipelines through Human-Robot Integration. Award Number: 2222635. Co-PI.

2022 **Trifecta** | Initiative Facilitating Funds Award. AI Supported Health Misinformation Management. Co-PI.

2021 **Institute of Museum and Library Services (IMLS)**|National Leadership Grants for Libraries. Library as a community catalyst empowering low-income youth to cultivate symbiotic relationships between Artificial Intelligence (AI) and local industry. Award Number: LG-250059-OLS-21. PI.

2021 **National Institutes of Health (NIH)/ Michigan Center for Urban African American Aging Research (MC-UAAAR)**| Junior Faculty Research Mentoring Funding. Social robots for the mental health management of a low-income African American in Flint. PI.

2019 **National Science Foundation (NSF)**|Smart and Connected Health. Training for Independent Living through Observant Robots and Design. Award Number:1915734. Senior Personnel.

PUBLICATIONS

CONFERENCE PROCEEDINGS / JOURNALS

AI as an organizational ratchet: Understanding AI adoption across individual, interpersonal and organizational level. (Under Review)

Union Institutional Power as a Site for Design: Labor Relations Perspectives on Workplace Automation. (Under Review)

Living Specimens and Self-Reflectors: An Intra-Active Account of Inpatient EEG Monitoring. (Under Review)

Who Is Studied, Who Is Heard, Who Decides: A Systematic Review of Caregiver Positioning in HCI. (Under Review)

“So Involve Us”: Co-Designing Everyday Access with Non-Sighted and Sighted Coworkers. (Under Review)

Whose Reality Is Twinned? Recontextualizing Factory Automation Through Worker-Centered Simulation Probes. (Under Review)

Repairing Plans, Not Robots: Repair Labor in Human-Robot Collaboration. (Under Review)

Beyond the Bedside: Coordinating Crash Cart Readiness for Hospital Robotics. (Under Review)

ILO 2026 Cheon, E.*, **Lee, H.R.*** *Both authors contributed equally.
"Nursing and Artificial Intelligence in the Republic of Korea."
International Labour Organization (ILO) Working Paper 168.

CHI 2026 ***Best Paper Honorable Mention (top 5% of submissions)***
Cho, H., Seo, J., Sohn, Y., **Lee, H.R.**
"Thing Ethnography in a Factory: Exploring Emergent and Dynamic Relations of Cobots and Workers."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 1-21).

CHI 2026 ***Best Paper Honorable Mention (top 5% of submissions)***
Cao, H. J., Chen, M., Peng, W., **Lee, H.R.**
"Why Don't People Follow Robot Leaders? Understanding the Effects of Power Legitimacy on Compliance with Agents ."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 1-23).

HRI 2026 Wang, Y., Zhang, W., **Lee, H.R.**
"Exploring Labor Issues in Human–Robot Collaboration: Community-Based Research with Trade Unions in Manufacturing"
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 668-677).

HRI 2026 Cao, H. J., Sack, M. J., Mkrtchyan, L., Ching, K., Iqbal, T., **Lee, H.R.**, Taylor, A.
"Robot-Assisted Medical Training for Safety-Critical Environments"
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 494-502).

HRI 2026 Lu, M., Xing, Y., Lauff, C., **Lee, H.R.**, Shin, J.Y.
"Robots for Those in Transition: Exploring Mental Wellness through Design Probes"
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 953-962).

DISER 2026 Akgün, S., Choi, K., **Lee, H.R**.
"Designing a critical AI literacy program for K-8 STEM education: Adopting a community-centered approach."
Disciplinary and Interdisciplinary Science Education Research (DISER), 8(1), 7. Springer.

CHI 2025 Cao, H. J., Choi, K., Park, C., **Lee, H.R.**
"AI Literacy for Underserved Students: Leveraging Cultural Capital from Underserved Communities for AI Education Research."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 1-15).

CHI 2025 ***Best Paper Honorable Mention (top 5% of submissions)***
Cao, H. J., **Lee, H.R.**, Peng, W.
"Empowering Adults with AI Literacy: Using Short Videos to Transform Understanding and Harness Fear for Critical Thinking."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 1-8).

HRI 2025 ***Best Paper Award (top 1% of submissions)***
Lee, H.R., Fox, S., Cheon, E., Shorey, S.
"Minding the Stop-gap: Attending to the "Temporary," Unplanned, and Added Labor of Human-Robot Collaboration in Context."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 34–44).

HRI 2025 Taylor, A., Tanjim, T., Sack, M. J., Hirsch, M., Cheng, K., Ching, K., St. George, J., Roumen, T., Jung, M. F., **Lee, H. R.**
"Rapidly Built Medical Crash Cart! Lessons Learned and Impacts on High-Stakes Team Collaboration in the Emergency Room."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 501–510).

Lib. Quarterly 2025 Kim, S. H., Choi, G. W., Choi, K., Copeland A., D'Arpa, C., Evans, S., Simpson, L., **Lee, H.R.**, Yoon, A.
"Public Library-University Research Partnerships in Library and Information Science: Exploring the Benefits, Challenges, and Strategies for Community-Engaged Scholarship."
The Library Quarterly 95, no. 4 (2025): 345-367. The University of Chicago Press.

Ro-Man 2025 Seo, J., Cho, H., Cao, H. J., **Lee, H.R.**
"Exploring Social Presence in Long-Distance Family Communication with Telepresence Robots in the Wild"
IEEE International Conference on Robot and Human Interactive Communication (Ro-Man)(pp. 2328-2333).

Ro-Man 2025 Tanjim, T., Ekpo, P., Cao, H. J., St. George, J., Ching, K., **Lee, H.R.**, Taylor, A.
"Human-Robot Teaming Field Deployments: A Comparison between Verbal and Non-Verbal Communication."
IEEE International Conference on Robot and Human Interactive Communication (Ro-Man) (pp. 1699-1704).

CHI 2024 **Lee, H.R.**
"Conflicting Perspectives of Workers: Exploring Labor Relations in Workplace Automation and Potential Interventions."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 1–17).

HRI 2024 ***Best Paper Honorable Mention (top 5% of submissions)***
Taylor, A., Tanjim, T., Cao, H. J., **Lee, H.R.**
"Towards Collaborative Crash Cart Robots that Support Clinical Teamwork."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 715–724).

JMIR Form Res 2024 Peng, W., **Lee, H.R.**, Lim, S.
"Leveraging Chatbots to Combat Health Misinformation for Older Adults: Participatory Design Study."
JMIR Formative Research 8.1 (2024): e60712.

HRI 2023 **Lee, H.R**., Sun, F., Iqbal, T., Roberts, B.
"Reimagining Robots for Dementia: From Robots for Care-receivers/giver to Robots for Carepartners."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 475-484).

THRI 2023 **Lee, H.R**., Riek, L. D.
"Designing Robots for Aging: Wisdom as a Critical Lens"
ACM Transactions on Human-Robot Interaction, 12(1), (pp. 1-21).

DIS 2023 Shin, J.Y.**,** Li, T., Peng, W., **Lee, H.R.**
"Bedtime Pals: A Deployment Study of Sleep Management Tech for Families With Young Children."
ACM Designing Interactive Systems (DIS) (pp. 1610-1629).

Ro-Man 2023 **Lee, H.R.**, Tan, X., Zhang, W., Deng Y., Liu Y.
"Situating Robots in the Organizational Dynamics of the Gas Energy Industry."
IEEE International Conference on Robot and Human Interactive Communication (Ro-Man) (pp. 1096-1101).

CHI 2022 Shin, J. Y., Peng, W., **Lee, H.R.**
"More than Bedtime and the Bedroom: Sleep Management as a Collaborative Work for the Family."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 1-16).

HRI 2022 **Lee, H.R.**, Cheon, E., Lim, C. Y., Fischer, K.
"Configuring Humans: What Roles Humans Play in HRI Research."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 478-492).

CSCW 2021 ***Best Paper Award (top 1% of submissions)***
Shin, J. Y., Chaar, D., Davis, C., Choi, S. W., **Lee, H. R.**
"Every Cloud Has a Silver Lining: Exploring Experiential Knowledge of Family Caregivers."
ACM Conference On Computer-Supported Cooperative Work And Social Computing (CSCW) (pp. 1-25).

CSCW 2019 ***Best Paper Honorable Mention (top 5% of submissions)***
Taylor, A., **Lee, H. R.**, Kubota, A., Riek, L. D.
"Coordinating Clinical Teams: Using Robots to Empower Nurses to Stop the Line."
ACM Conference On Computer-Supported Cooperative Work And Social Computing (CSCW) (pp. 1-30).

HRI 2019 ***Best Paper Honorable Mention (top 5% of submissions)***
Moharana, S., Panduro, A., **Lee, H. R.**, Riek, L. D.
"Robots for Joy, Robots for Sorrow: Community Based Robot Design for Dementia Caregivers."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 458-467).

THRI 2018 ***Invited to Present at HRI 2018 in a Special Session***
Lee, H. R., Riek, L. D.
"Reframing Assistive Robots to Promote Successful Aging."
ACM Transactions on Human-Robot Interaction (THRI), 7(1), (pp. 1-23).

CHI 2017 **Lee, H. R.**, Šabanović, S., Kwak, S. S.
"Collaborative map making: A reflexive method for understanding matters of concern in design research."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 5678-5689).

HRI 2017 **Lee, H. R.**, Šabanović, S., Chang, W., Nagata, S., Piatt, J., Bennett, C., Hakken, D.
"Steps toward participatory design of social robots: mutual learning with older adults with depression."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 244-253).

Ro-Man 2016 **Lee, H.R.**, Tan, H., Šabanović, S.
"That robot is not for me: addressing stereotypes of aging in assistive robot design."
IEEE International Conference on Robot and Human Interactive Communication (Ro-Man) (pp. 312-317).

AJRT 2016 Piatt, J., Nagata, S., Šabanović, S., Cheng, W. L., Bennett, C., **Lee, H.R.**, Hakken, D.
"Companionship with a robot? Therapists' perspectives on socially assistive robots"
American Journal of Recreation Therapy, 15(4), (pp. 29-39).

CHI 2014 **Lee, H.R.**, Šabanović, S., Stolterman, E.
"Stay on the boundary: artifact analysis exploring researcher and user framing of robot design."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 1471-1474).

HRI 2014 **Lee, H.R.**, Šabanović, S.
"Culturally variable preferences for robot design and use in South Korea, Turkey, and the United States."
ACM/IEEE Conference on Human-Robot Interaction (HRI) (pp. 17-24).

UbiComp 2013 ***Best Paper Honorable Mention (top 5% of submissions)***
Lee, H.R., Šabanović, S.
"Weiser's dream in the Korean home: collaborative study of domestic roles, relationships, and ideal technologies."
ACM Conference on Ubiquitous computing (UbiComp) (pp. 637-646).

CHI 2012 ***Best Paper Honorable Mention (top 5% of submissions)***
Parker, A., Kantroo, V., **Lee, H.R.**, Osornio, M., Sharma, M., Grinter. R.
"Health promotion as activism: building community capacity to effect social change."
ACM Conference on Human Factors in Computing Systems (CHI) (pp. 99-108).

Ro-Man 2012 **Lee, H.R.**, Sung, J., Šabanović, S., Han, J.
"Cultural design of domestic robots: A study of user expectations in Korea and the United States."
IEEE Symposium on Robot and Human Interactive Communication (Ro-Man)(pp. 803-808).

AMIA 2011 Lee, E. K., **Lee, H.R**., Quarshie, A.
"SEACOIN–An investigative tool for biomedical informatics researchers."
American Medical Informatics Association Annual Symposium (AMIA)(Vol. 2011, p. 750).

PervasiveHealth 2010 Yun, T.J., Jeong, H.Y., **Lee, H.R**., Arriaga, R.I., Abowd, G.
"Assessing asthma management practices through in-home technology probes."
ACM Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health) (pp. 1-9).

SBDA 2007 Lee, H.R., Jang, S.
"Potential and application of everyday tools as TUIs - focused on interactive art."
Society of Basic Design & Art (SBDA), 7(4), 521-531.

WORKSHOP PUBLICATIONS, EXTENDED ABSTRACTS & POSTERS

"Refusal as Counter-Participation." (Under Review)

IROS 2026 Smith, M., Bush, J., Soltanian, S., Gao, M., Zhang, W., Lee, H.R., Wang, Y.
"Leveraging Behavioral Models in Human-Autonomy Teams."
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). Accepted.

HRI 2024 Dobrosovestnova, A., **Lee, H. R.**, Ljungblad, S., Gamboa, M., Gosnall, T., & Mansouri, M.
"Ethnography in HRI: Embodied, Embedded, Messy and Everyday."
ACM/IEEE International Conference on Human-Robot Interaction (HRI) (pp. 1314 - 1316).

HRI 2024 Allen, K.H., Aronson, R.M., Bhattacharjee, T., Broz, F., Chang, M.L., Collier, M., Kessler Faulkner, T., **Lee, H.R.**, Neto, I., Winkle, K. and Short, E.S.
"Assistive Applications, Accessibility, and Disability Ethics in HRI."
ACM/IEEE International Conference on Human-Robot Interaction(HRI) (pp. 1305 – 1307).

ASIS&T 2023 Kim, S.H., Choi, G.W., Choi, K., Copeland, A., D'Arpa, C., Evans, S., Simpson, L., **Lee, H.R.** & Yoon, A.
"Public Library-University Partnerships in Library and Information Science."
Association for Information Science and Technology (ASIS&T), 60(1), 799-803.

HRI 2023 Malvi, P., **Lee, H. R.**
"Cat-E: A Social Robot Guiding Children's Activities with AI Art Generator"
ACM/IEEE International Conference on Human-Robot Interaction (HRI) (pp. 407-410).

HRI 2022 Abdi, M., Hamp, E., Oistad, W., Shin, J. Y., and **Lee, H.R.**
"Gamer Breakbots: Exploring Robots as a Way for Gamers to Manage Break Time and Alleviate Potential Health Issues."
ACM/IEEE International Conference on Human-Robot Interaction (HRI) (pp. 659-661).

CSCW 2021 Cheon, E., Zaga, C., **Lee, H.R**., Lupetti, M.L., Dombrowski, L. and Jung, M.F.
"Human-Machine Partnerships in the Future of Work."
Companion Publication of the ACM Conference on CSCW and Social Computing (pp. 323-326).

HRI 2019 **Lee, H. R.**, Cheon, E., De Graaf, M., Alves-Oliveira, P., Zaga, C., & Young, J.
"Robots for social good: exploring critical design for HRI."
ACM/IEEE International Conference on Human-Robot Interaction (HRI) (pp. 681-682).

HRI 2019 García, D., Esteban, P., **Lee, H.R.,** Romeo, M., Senft, E., Billing, E.
"Social Robots in Therapy and Care."
ACM/IEEE International Conference on Human-Robot Interaction (HRI) (pp. 669-670).

HRI 2018 García, D., Esteban, P., **Lee, H.R.,** Chevalier, P., Baxter, P., Bethel, C.
"Social Robots in Therapy: Focusing on Autonomy and Ethical Challenges"
ACM/IEEE International Conference on Human-Robot Interaction (HRI) (pp. 391-392).

AAAI 2016 **Lee, H.R.**, Šabanović, S., Stolterman, E.
"How humanlike should a social robot be: a user-centered exploration."
AAAI Spring Symposium on Enabling Computing Research in Socially Intelligent Human-Robot Interaction.

HRI 2014 **Lee, H.R**., Šabanović, S., Hakken, D.
"Cultural design of domestic robot with participatory design."
Methods for Studying Technology in the Home Workshop at ACM Conference on Human Factors in Computing Systems (CHI).

HRI 2014 Šabanović, S., Bennett, C., **Lee, H.R.**
"Towards culturally robust robots: a critical social perspective on robotics and culture."
Culture-Aware Robotics Workshop at ACM/IEEE Conference on Human Robot Interaction (HRI).

CHI 2010 **Lee, H.R.**, Panont, W.R., Plattenburg, B., de la Croix, J.P., Patharachalam, D. and Abowd, G.
"Asthmon: empowering asthmatic children's self-management with a virtual pet."
ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI) (pp. 3583-3588).

AAAI 2010 Hwang, J.Y., Shim-Lee, J., **Lee, H.**
"Designing a visual analytic system to represent bookmark sharing data."
Visual Representations and Reasoning Workshop at the AAAI Conference.

CHI 2009 **Lee, H.R.**, DiSalvo, C.
"Connected space."
ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI) (pp. 3643-3648).

STUDENT MENTORING

Visiting Scholar HyungJun Cho, Industrial Design PhD student, KAIST 2024 - 2025
currently Assistant Professor at Univ of Florida

PhD Students	Ji Youn Shin, Info & Media PhD student, Michigan State Univ *currently Assistant Professor at Univ of Minnesota*	2019 - 2022
	Selin Akgün, Curric., Instruction and Teacher Edu PhD student, Michigan State Univ *currently Assistant Professor at Univ of Minnesota*	2021 - 2024
	Sue Lim, Communication PhD student, Michigan State Univ *currently Assistant Professor at Purdue University*	2020 - 2025
	Elisavet Averkiadi, Info & Media PhD student, Michigan State Univ	2020 - Present
	Huajie (Jay) Cao, Info & Media PhD student, Michigan State Univ	2023 - Present
	Yuxuan Wang, Info & Media PhD student, Michigan State Univ	2025 - Present
	Jun Zhu, Info & Media PhD student, Michigan State Univ	2025 - Present
	Deepak Giri, Info & Media PhD student, Michigan State Univ	2025 - Present
	Isaac Gogolin, Info & Media PhD student, Michigan State Univ	2025 - Present
	Jennifer McDermitt, Info & Media PhD student, Michigan State Univ	2024 - Present
Masters Students	Jisun Lee, Media & Info Masters student, Michigan State Univ	2024 - Present
	Shiyu Xiang, Media & Info Masters student, Michigan State Univ	2023 - 2026
	Leo Chen, Media & Info Masters student, Michigan State Univ	2025 - 2026
	Allyson Tishler, Media & Info Masters student, Michigan State Univ	2025 - 2026
	Minjun Ju, Immersive Media Eng Masters student, Sungkyunkwan Univ	2025
	Hannah Cho, Immersive Media Eng Masters student, Sungkyunkwan Univ	2025
	Hsiang-Ting Lin, Media & Info Masters student, Michigan State Univ	2023 - 2025
	Jae Lee, Media & Info Masters student, Michigan State Univ	2023 - 2024
	Madeline Allen, Media & Info Masters student, Michigan State Univ	2023 - 2024
	Joe Kubeshesky, Media & Info Masters student, Michigan State Univ	2022 - 2024
	Yuanyuan Xue, Media & Info Masters student, Michigan State Univ	2022 - 2024
	Pooja Malvi, Media & Info Masters student, Michigan State Univ	2021 - 2023
	Tongxin Li, Media & Info Masters student, Michigan State Univ	2019 - 2021
	Valentina Oram, Media & Info Masters student, Michigan State Univ	2020 - 2021
	Renu Singh, Computer Science Masters student, UC San Diego	2018
	Jeremy Smith, Computer Science Masters student, UC San Diego	2018
Undergraduate Students	Anh Nguyen, Engineering, Michigan State Univ	2026 - Present

Vu Phi, Engineering, Michigan State Univ	2019 - 2022
Emily Lin, Experience Architecture Undergraduate, Michigan State Univ	2019 - 2022
Catherine Davis, Information Science Undergraduate, Michigan State Univ	2019 - 2020
Sanika Moharana, Cognitive Science Undergraduate, UC San Diego	2017 - 2019
Alejandro Panduro, Cognitive Science Undergraduate, UC San Diego	2017 - 2019
Kayoung Cho, Informatics Undergraduate, Indiana Universityy	2017 - 2019
Ying Hong, Informatics Undergraduate, Indiana University	2016
Jeron Braxton, Informatics Undergraduate, Indiana University	2015

TEACHING EXPERIENCE

MI 401 Society, Technology, and Design | Michigan State University — 2025 - current
Instructor

MI 845 Usability and Accessibility: Design and Evaluation | Michigan State University — 2021 - current
Instructor

MI 484 Human-Robot Interaction | Michigan State University — 2020 - current
Instructor

MI 350 Evaluating Human-Centered Technologies | Michigan State University — 2019 - current
Instructor

I502 Human Centered Research Methods | Indiana University — 2015, 2016
Associate Instructor

I202 Intro. to Social Informatics | Indiana University — 2016
Co-Instructor

I440/H440/I540 Human Robot Interaction | Indiana University — 2015, 2016
Associate Instructor

CS 3790 Cognitive Science | Georgia Institute of Technology — 2009
Teaching Assistant

User Interface Design | Sungshin Women's University — 2007
Teaching Assistant

Typography | Sungshin Women's University — 2005
Teaching Assistant

INVITED TALKS

"Inclusive Innovation: Collaborative Robot Design For and With Underserved Communities." — 2026
Seoul National University Bundang Hospital, Sungnam, South Korea

"Automation and Labor: Nursing and AI in South Korea." — 2026
Korean Health and Medical Workers' Union (KHMU), Seoul, South Korea.

"Nursing and AI in South Korea." 2026
AI and the future of nursing webinar, International Labour Organization (ILO), United Nations (UN) Online.

"The ABCs of AI: Learn, Build, and Think." 2025
Highland Township Public Library, Highland Township, MI.

"Workplace Automation & Labor - Focusing on Collaborative Robots." 2025
Samsung Medical Center, Seoul, Korea.

"Workplace Automation & Labor: The Role of Robots and Researchers." 2025
Sungkyunkwan University, Seoul, Korea.

"Robots in the Workplace: Best for Whom?" 2025
Robot Ethics Forum, IEEE International Conference on Robotics and Automation, Atlanta, GA.

"Workplace Automation & Automation Literacy." (Keynote) 2025
Beyond Barriers: Conversations on Equity in Information Conference, Wayne State Univ, Detroit, MI

"Building Relationships with Community Partners – Focusing on Inclusivity." 2025
Workshop Your Study Design (WYSD), International Conference on Human-Robot Interaction (HRI), Melbourne, Australia.

"Workplace Automation & Labor: The Role of Robots and Researchers." 2025
The 20th Korea Robotics Society Annual Conference (KRoC 2025), Pyungchang, Korea.

"Workplace Automation & Labor." 2025
SYS 4582/6465, ECE 4502/6465, CS 6465 Robots and Humans, University of Virginia, VA.

"Automation and Labor: The Role of Robots." 2024
University of Wisconsin–Madison, Madison WI.

"Hands-On AI Literacy Programs for Youth and Teens." 2023
Young Adult Services Symposium, St. Louis MO.

"AI Literacy Programs for Youth and Teens in Public Libraries." 2023
Young Adult Library Services Association, Webinar

"Human-centered study: focusing on participatory and collaborative approaches." 2023
Workshop Your Study Design (WYSD), International Conference on HRI, Stockholm, Sweden.

"Robot Design for Social Good." 2023
SYS 4582/6465, ECE 4502/6465, CS 6465 Robots and Humans, University of Virginia, VA.

"AI and Co-Design in Public Libraries." 2023
Public Library-University Partnerships in Library and Information Science, Association for Information Science and Technology (ASIS&T), London, United Kingdom.

"From Labor-Displacing to Labor-Reinstating: Exploring Production Workers' Experience with Collaborative Robots." 2022
Labor Tech Speaker Series, Labor Tech Research Network, Online.

"From Labor-Displacing to Labor-Reinstating: Exploring Production Workers' Experience with Co-bots." 2022
The Evolution and Future of Work Speaker Series, Michigan State University, East Lansing, MI.

"Robots for Aging: Robot Design to Support Inclusion and Wellness." 2022
The Asian Conference on Aging & Gerontology (AGen), The International Academic Forum (IAFOR), Tokyo, Japan

"Every Cloud Has a Silver Lining: Exploring Experiential Knowledge and Assets of Family Caregivers" 2022
HCI Korea 2022, Seoul, South Korea.

"AI & Co-design in public libraries." 2022
Guest lecture for MI401 Cyborg, Michigan State University, MI.

"Robots for Social Good - Focusing on Healthcare Robotics." 2022
INFO 5755 Introduction to Human-Robot Interaction, Cornell University, NY.

"Robots for Social Good." 2022
CSCI 436/536 Human-Robot Interaction, Colorado School of Mines, CO.

"Making the Invisible Visible in Robot Design for Aging." 2021
Social Robots for Health and Well-being, Ageing Societies, Online.

"Robots for Social Good - Focusing on Inclusivity and Diversity in HRI." 2021
Cognitive Science Seminar, New Mexico State University, NM.

"Robots for Social Good: Robot Design to Support Inclusion and Wellness." 2021
Personal Robotics lab seminar, Massachusetts Institute of Technology (MIT).

"Making work visible: robots as social interventions in factory automation." 2020
The Evolution and Future of Work, Michigan State University, East Lansing, MI.

"Human-Robot Interaction and Design." 2020
MI 401 Media, Information, and Society, Michigan State University, East Lansing, MI.

"Robots for Aging: Robot Design to Support Inclusion and Wellness." 2019
CSE 176A/276D Healthcare Robotics. UC San Diego, San Diego, CA.

"Robot Design to Challenge Ageism." 2019
Social Human-Robot Interaction of Human-Care Service Robots at HRI, ACM/IEEE International Conference on Human Robot Interaction (HRI).

"Participatory Design for Assistive Robots." 2017
IBM Research Seminar, Online.

"Collaborative Robot Design" 2017
STS 5974 Independent Study on Social Robotics, Virginia Tech, VA

Culturally Situated Domestic Robot 2016
Telerobotics and Control Laboratory, KAIST, South Korea.

Robot Design Methods 2014
Industrial Design Seminar, Ewha Womans University, South Korea.

PROFESSIONAL EXPERIENCE

NAVER Corporation, South Korea
Consultant for Emerging Technologies

Industrial Design, Ewha Womans University, South Korea
Visiting Scholar

Center for Operations Research in Medicine and HealthCare, Georgia Institute of Technology, USA
Research Assistant

PROFESSIONAL SERVICE

EDITOR

ACM Transactions on Human-Robot Interaction | Senior Associate Editor 2025- Present
ACM Transactions on Human-Robot Interaction | Associate Editor 2024 - 2025

PROGRAM COMMITTEE

Program Subcommittee Co-Chair

ACM/IEEE International Conference on Human-Robot Interaction (HRI) | Design Track 2025 - 2026
ACM/IEEE International Conference on Human-Robot Interaction (HRI) | alt.HRI 2023

Jury for Best Paper Award

ACM/IEEE International Conference on Human-Robot Interaction (HRI) | Design, Method & Thoery tracks 2023

Conference Program Committee Member

ACM/IEEE International Conference on Human-Robot Interaction (HRI) 2019 - 2026
ACM Conference on Human Factors in Computing (CHI)|Critical Computing track 2024
IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) 2023 - 2024
Symposium on Human-Computer Interaction for Work (CHIWORK) 2022 - 2023
ACM Designing Interactive Systems (DIS) 2022, 2026
Participatory Design Conference (PDC) 2018

ORGANIZER

Ro-Man Video Chair 2023
CSCW Workshop on Human-Machine Partnership in the Future of Work 2021
HRI Workshop on Social Robots in Therapy and Care 2019
HRI Workshop on Robots for Social Good: Exploring Design for HRI 2019
HRI Workshop on Social Robots in Therapy: focusing on Autonomy and Ethical Challenges 2018

REVIEWER

Journal

ACM Transactions on Human-Robot Interaction (THRI)

ACM Communications

BMJ open

Elsevier Journal of Computers in Human Behavior

IEEE Transactions on Human-Machine Systems

IEEE Robotics and Automation Magazine

Sage Science, Technology, & Human Values (ST&HV)

Springer The Journal of Collaborative Computing and Work Practices

Springer International Journal of Social Robotics

Taylor & Francis Human–Computer Interaction

Taylor & Francis Assistive Technology

Wiley-Blackwell Topics in Cognitive Science (topiCS)

Conference

ACM/IEEE International Conference on Human Robot Interaction (HRI)

ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI)

ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)

ACM Conference on Participatory Design Conference (PDC)

ACM Conference on Designing Interactive Systems (DIS)

ACM Interaction Design and Children (IDC)

ACM Conference on Human Agent Interaction (HAI)

IEEE International Symposium on Robot and Human Interactive Communication (Ro-Man)

PANEL

First International Workshop on Worker-Robot Relationships: Exploring Transdisciplinarity for the Future of Work with Robots, ACM/IEEE International Conference on Human Robot Interaction (HRI) — 2024

Workshop YOUR Study Design 2024! Participatory Critique and Refinement of Participants' Studies, ACM/IEEE International Conference on Human Robot Interaction (HRI) — 2019

Social Human-Robot Interaction of Human-Care Service Robots, ACM/IEEE International Conference on Human Robot Interaction (HRI) — 2018

Social Human-Robot Interaction of Human-Care Service Robots, IEEE International Symposium on Robot and Human Interactive Communication (Ro-Man) — 2017

Robot Design Workshop, IEEE International Conference on Ubiquitous Robots and Ambient Intelligence — 2016