WENDY JU

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Link to Google Scholar page

I explore how people interact with automated systems. I use design research to study interactions using physical and digital interfaces that implicitly communicate with users; this knowledge has wide-reaching application in the creation of robots, automated vehicles and consumer technology devices. Also, I aim to lower the barriers to designing interactive systems so that these systems work for more people.

EDUCATION

June 2008 **Stanford University**, Stanford, CA
Ph.D. in Mechanical Engineering
DISSERTATION: *The Design of Implicit Interactions*
COMMITTEE: Larry Leifer (primary advisor), Terry Winograd, Clifford Nass, Edward Carryer, Donald Norman, Scott Klemmer

1999-2001 **Massachusetts Institute of Technology**, Cambridge, MA
M.S. Media Arts and Sciences
THESIS: *The Design of Active Workspaces*
COMMITTEE: Michael Hawley (primary advisor), Joseph Paradiso, Chee Pearlman

1993-1997 **Stanford University**, Stanford, CA
B.S. with Distinction, Mechanical Engineering

POSITIONS

2023– **Associate Professor** *(secondary appointment)*
Faculty of Architecture and Town Planning
Technion—Israel Institute of Technology

2018– **Associate Professor**, Information Science, *promoted Spring 2020*
Jacobs Technion-Cornell Institute (Technion-appointed), Cornell Tech, New York
Inaugural faculty, Design Tech, *started Spring 2022*

2013–2017 **Executive Director**, Interaction Design Research
Center for Design Research, Stanford University

2008–2017 **Associate Professor**, *promoted Fall 2014*
Graduate Program in Design, California College of the Arts

2009-2013 **Research Associate**, Computer Science & Center for Design Research
PIs: Terry Winograd, Larry Leifer
Stanford University

TEACHING

Spring 2026 **INFO/DESIGN 5550/6550. DESIGNING PRODUCTS WITH E-WASTE.** Cornell Tech.
Originated new graduate-level course covering technical and social issues around creating novel products using recycled e-waste.

Annually since 2018 **INFO5345/CS5424/ECE5413. DEVELOPING AND DESIGNING INTERACTIVE DEVICES.** Cornell Tech.
Originated new graduate-level course covering the technical and human-center aspects of designing interactive devices with single board Linux computers and embedded controllers.

Regularly since 2020 **INFO6250. HCI DESIGN STUDIO**, Cornell & Cornell Tech.
PhD level studio course to explore the intersection of research and design through term-long project.

Spring 2023 **INFO/CS 5755/6755. MOBILE HUMAN ROBOT INTERACTION DESIGN**, Cornell & Cornell Tech.
Originated new Masters and PhD-level laboratory course to prototype mobile robots and study interaction.

Spring 2019 **INFO6940. PHD RESEARCH THROUGH DESIGN**, Cornell Tech.
Designed new graduate-level course studio course to explore the intersection of research and design, through exploration, study and practice.

Winter 2012, Winter 2014 **EE92A. MAKING AND BREAKING THINGS**, Stanford University.
Created new "hands-on" seminar course to encourage a maker culture in the Electrical Engineering department at Stanford. Weekly guest speakers guide students through short projects or product dissections. *With David Sirkin.*

Spring 2010-2013 **EE47. INTERACTIVE DEVICE DESIGN**, Stanford University.
Designed new course to expose undergraduate students to the various human-centered and technical aspects of designing interactive devices with embedded controllers, digital displays and electronic sensors and actuators.

Spring 2013 **ARCH 39D. DESIGN AND ACTIVISM**, UC Berkeley.
Taught freshman/sophomore seminar to explore the relationships between design and activism. *With Ronald Rael & Walter Hood.*

Fall 2009-2012 **MUSIC 250A&B. PHYSICAL INTERACTION DESIGN**, Stanford CCRMA.
Guided graduate students developing new platforms to allow novel autonomous new musical instruments. *With Edgar Berdahl.*

Fall 2012 **ARCH 109/209. EXPRESSIVE MOVEMENT IN DESIGN & ARCHITECTURE**, UC Berkeley
Taught original studio design course to explore the expressive possibilities of using motion to build more "intuitive" systems in domains as varied as architecture, public art and industrial design.

Winter 2008, 2009 **ENGR231. TRANSFORMATIVE DESIGN**, Stanford d.school
Designed new advanced graduate course focused on recognizing and harnessing social, cultural and behavioral factors in design for health, conservation & safety. *With Bernard Roth, S. Lochlann Jain & Bill Moggridge.*

Spring 2008 **IEOR170. INDUSTRIAL DESIGN & HUMAN FACTORS**, UC Berkeley.
Lead survey course on industrial design & human factors. Class featured lectures, historical & contemporary case studies, design exercises and a major design project.

PUBLICATIONS

Monograph **Wendy Ju**. *The Design of Implicit Interactions*. Vol. 8. 2. Morgan & Claypool Publishers (now Springer Nature), 2015, pp. 1–93.

Journal Articles Debargha Dey, Azra Habibovic, **Wendy Ju**. "Operationalizing Dyadic Urban Traffic Interaction Studies: From Theory to Practice." *Applied Sciences* 15.7 (2025).

Xiaoyu Chang, Fan Zhang, Kexue Fu, Carla Diana, **Wendy Ju**, Ray LC. "A Constructed Response: Designing and Choreographing Robot Arm Movements in Collaborative Dance Improvisation." *Proceedings of the ACM on Human-Computer Interaction* 5.CSCW1 (Oct. 2025).

Natalie Friedman, Alexandra Bremers, Adelaid Nyanyo, Ian Clark, Yasmine Kotturi, Laura Dabbish, **Wendy Ju**, Nikolas Martelaro. "Understanding the Challenges of Maker Entrepreneurship." *Proceedings of the ACM on Human-Computer Interaction* 5.CSCW1 (Oct. 2025).

Hauke Sandhaus, Angel Hsing-Chi Hwang, **Wendy Ju**, Qian Yang. "My Precious Crash Data: Barriers and Opportunities in Encouraging Autonomous Driving Companies to Share Safety-Critical Data." *Proceedings of the ACM on Human-Computer Interaction* 5.CSCW1 (Oct. 2025).

Fanjun Bu, Kerstin Fischer, **Wendy Ju**. "Making Sense of Robots in Public Spaces: A Study of Trash Barrel Robots." *Journal of Human-Robot Interaction* (Apr. 2025).

Natalie Friedman, Zhi Ming Tan, Micah Haskins, **Wendy Ju**, Diane Bailey, Louis Longchamps. "Understanding Farmers' Data Collection Practices on Small-to-Medium Farms for the Design of Future Farm Management Information Systems." *Proceedings of the ACM on Human-Computer Interaction* CSCW (2024).

Mark Colley, Daniel Kornmüller, Debargha Dey, **Wendy Ju**, Enrico Rukzio. "Longitudinal Effects of External Communication of Automated Vehicles in the USA and Germany: A Comparative Study in Virtual Reality and via a Browser." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 8.4 (Nov. 2024).

Thomas Krendl Gilbert, Noah Zijie Qu, **Wendy Ju**, Jamy Li. "Fleets on the streets: How number, affiliation and purpose of shared-lane automated vehicle convoys influence public perception and blame." *Transportation Research Part F: Traffic Psychology and Behaviour* 93 (2023), pp. 294–308.

Sharon Yavo-Ayalon, Swapna Joshi, Yuzhen Zhang, Ruixiang Han, Narges Mahyar, **Wendy Ju**. "Building Community Resiliency through Immersive Communal Extended Reality (CXR)." *Multimodal Technologies and Interaction* 7.5 (2023).

David Goedicke, Carmel Zolkov, Natalie Friedman, Talia Wise, Avi Parush, **Wendy Ju**. "Strangers in a Strange Land: New Experimental System for Understanding Driving Culture Using VR." *IEEE Transactions on Vehicular Technology* 71.4 (2022), pp. 3399–3413.

Sharon Yavo-Ayalon, Cheng Gong, Harrison Yu, Ilan Mandel, **Wendy Ju**. "The sidewalk ballet in the age of social distancing: interactive geospatial mapping to study NYC's pandemic urbanism." *Journal of Urbanism: International Research on Placemaking and Urban Sustainability* (2022), pp. 1–23.

Sharon Yavo-Ayalon, Cheng Gong, Harrison Yu, Ilan Mandel, **Wendy Ju**. "Walkie-Talkie Maps – A Novel Method to Conduct and Visualize Remote Ethnography." *International Journal of Qualitative Methods* 21 (2022), p. 16094069221115519.

Tong Wu, Nikolas Martelaro, Simon Stent, Jorge Ortiz, **Wendy Ju**. "Learning When Agents Can Talk to Drivers Using the INAGT Dataset and Multisensor Fusion." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 5.3 (Sept. 2021).

Jake Goldenfein, Deirdre K. Mulligan, Helen Nissenbaum, **Wendy Ju**. "Through the Handoff Lens: Competing Visions of Autonomous Futures." *Berkeley Technology Law Journal* 35.3 (July 2021).

Andrea Cuadra, Shuran Li, Hansol Lee, Jason Cho, **Wendy Ju**. "My Bad! Repairing Intelligent Voice Assistant Errors Improves Interaction." *Proceedings of the ACM on Human-Computer Interaction* 5 (Apr. 2021).

Stephanie Balters, Joseph W Geeseman, Ann-Kristin Tveten, Hans Petter Hildre, **Wendy Ju**, Martin Steinert. "Mayday, Mayday, Mayday: Using salivary cortisol to detect distress (and eustress!) in critical incident training." *International Journal of Industrial Ergonomics* 78 (2020), p. 102975.

Christian P Janssen, Linda Ng Boyle, **Wendy Ju**, Andreas Riener, Ignacio Alvarez. "Agents, environments, scenarios: A framework for examining models and simulations of human-vehicle interaction." *Transportation Research Interdisciplinary Perspectives* 8 (2020), p. 100214.

Wendy Ju, Sharon Yavo-Ayalon, Ilan Mandel, Federico Saldarini, Natalie Friedman, Srinath Sibi, JD Zamfirescu-Pereira, Jorge Ortiz. "Tracking Urban Mobility and Occupancy under Social Distancing Policy." *Digital Government: Research and Practice* 1.4 (2020), pp. 1–12.

Xiaosong Qian, **Wendy Ju**, David Michael Sirkin. "Aladdin's magic carpet: Navigation by in-air static hand gesture in autonomous vehicles." *International Journal of Human–Computer Interaction* 36.20 (2020), pp. 1912–1927.

Helena Strömberg, Ingrid Pettersson, **Wendy Ju**. "Enacting metaphors to explore relations and interactions with automated driving systems." *Design Studies* 67 (2020), pp. 77–101.

Christian P Janssen, Linda Ng Boyle, Andrew L Kun, **Wendy Ju**, Lewis L Chuang. "A hidden markov framework to capture human–machine interaction in automated vehicles." *International Journal of Human–Computer Interaction* 35.11 (2019), pp. 947–955.

Dylan Moore, Xiao Ge, David Sirkin, Daniel Stenholm, **Wendy Ju**. "ActiveNavigator: Toward Real-Time Knowledge Capture and Feedback in Design Workspaces." *The International Journal of Engineering Education* 34.2 (2018), pp. 723–733.

Pablo E Paredes, Stephanie Balters, Kyle Qian, Elizabeth L Murnane, Francisco Ordóñez, **Wendy Ju**, James A Landay. "Driving with the fishes: Towards calming and mindful virtual reality experiences for the car." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 2.4 (2018), pp. 1–21.

Pablo E Paredes, Yijun Zhou, Nur Al-Huda Hamdan, Stephanie Balters, Elizabeth Murnane, **Wendy Ju**, James A Landay. "Just breathe: In-car interventions for guided slow breathing." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 2.1 (2018), pp. 1–23.

Hamish Tennent, Dylan Moore, **Wendy Ju**. "Character actor: Design and evaluation of expressive robot car seat motion." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 1.4 (2018), pp. 1–23.

Pablo Enrique Paredes, Nur Al-Huda Hamdan, Dav Clark, Carrie Cai, **Wendy Ju**, James A Landay. "Evaluating in-car movements in the design of mindful commute interventions: exploratory study." *Journal of Medical Internet Research* 19.12 (2017), e372.

Megan K Strait, Victoria A Floerke, **Wendy Ju**, Keith Maddox, Jessica D Remedios, Malte F Jung, Heather L Urry. "Understanding the uncanny: both atypical features and category ambiguity provoke aversion toward humanlike robots." *Frontiers in Psychology* 8 (2017), p. 1366.

Jamy Li, René Kizilcec, Jeremy Bailenson, **Wendy Ju**. "Social robots and virtual agents as lecturers for video instruction." *Computers in Human Behavior* 55 (2016), pp. 1222–1230.

Jeamin Koo, Jungsuk Kwac, **Wendy Ju**, Martin Steinert, Larry Leifer, Clifford Nass. "Why did my car just do that? Explaining semi-autonomous driving actions to improve driver understanding, trust, and performance." *International Journal on Interactive Design and Manufacturing (IJIDeM)* 9.4 (2015), pp. 269–275.

Erica S Savig, Jacqueline H Gurevitch, Jordan E Jackson, Amber Malinowski, **Wendy G Ju**, Larry J Leifer, Harvey J Cohen, Barbara M Sourkes, Rajni Agarwal. "A Multidisciplinary Care Team Perspective on Children's Emotional Experience in Isolation for Stem Cell Transplantation." *Biology of Blood and Marrow Transplantation* 21.2 (2015), S180.

Guy Hoffman, **Wendy Ju**. "Designing robots with movement in mind." *Journal of Human Robot Interaction* 1.1 (2012), pp. 78–95.

David Sirkin, **Wendy Ju**. "Producing Expressive Movement for Telepresence Robotics." *Social Robotic Telepresence* 1 (2012).

Edgar Berdahl, **Wendy Ju**, Julius O Smith III. "Homemade digital musical instruments." *The Journal of the Acoustical Society of America* 127.3 (2010), pp. 1763–1763.

Wendy Ju, Leila Takayama. "Approachability: How people interpret automatic door movement as gesture." *International Journal of Design* 3.2 (2009).

Wendy Ju, Larry Leifer. "The design of implicit interactions: Making interactive systems less obnoxious." *Design Issues* 24.3 (2008), pp. 72–84.

Book chapters

Dorin Ruinsky Shapira, Matt Franchi, **Wendy Ju**. "Fingerprinting NYC's Scaffolding Problem with Longitudinal Dashcam Data." *Digital-Era Urban Transformations: Advancements in Data Science, Analytics and Technology*. Ed. by Robert Goodspeed, Esra Suel, Huanfa Chen, Joana Barros, Christopher Pettit. Springer, Oct. 2025.

Ilan Mandel, **Wendy Ju**. "Readymade Prototyping." English. *Designing Interactions with Robots: Methods and Perspectives*. Ed. by Maria Luce Lupetti, Cristina Zaga, Nazli Cila, Selma Šabanović, Malte F. Jung. United States: CRC Press, Jan. 2024, pp. 14–16.

Nikolas Martelaro, **Wendy Ju**. "The needfinding machine." *Social internet of things*. Ed. by Alessandro Soro, Margot Brereton, Paul Roe. Internet of Things (Technology, Communications and Computing). Springer, 2019, pp. 51–84.

Nikolas Martelaro, **Wendy Ju**, Mark Horowitz. "The Interaction Engine." *Design Thinking Research*. Springer, 2018, pp. 147–169.

Wendy Ju, Lauren Aquino Shluzas, Larry Leifer. "People with a paradigm: the Center for Design Research's Contributions to Practice." *Impact of Design Research on Industrial Practice*. Springer, 2016, pp. 209–222.

David Sirkin, Sonia Baltodano, Brian Mok, Dirk Rothenbücher, Nikhil Gowda, Jamy Li, Nikolas Martelaro, David Miller, Srinath Sibi, **Wendy Ju**. "Embodied design improvisation for autonomous vehicles." *Design Thinking Research*. Springer, 2016, pp. 125–143.

David Sirkin, Brian Mok, Stephen Yang, Rohan Maheshwari, **Wendy Ju**. "Improving design thinking through collaborative improvisation." *Design Thinking Research*. Springer, 2016, pp. 93–108.

David Sirkin, **Wendy Ju**. "Embodied design improvisation: a method to make tacit design knowledge explicit and usable." *Design Thinking Research*. Springer, 2015, pp. 195–209.

Steven Dow, **Wendy Ju**, Wendy Mackay. "Projection, Place and Point-of-view in Research through Design." *The SAGE Handbook of Digital Technology Research*. SAGE, 2013, pp. 266–285.

David Sirkin, **Wendy Ju**, Mark Cutkosky. "Communicating meaning and role in distributed design collaboration: how crowdsourced users help inform the design of telepresence robotics." *Design Thinking Research*. Springer, 2012, pp. 173–187.

Edgar Berdahl, **Wendy Ju**. "Satellite CCRMA: A Musical Interaction and Sound Synthesis Platform." *New Interfaces for Musical Expression (NIME)*. ACM, 2011, pp. 173–178.

Wendy Ju. "The Mouse, the Demo, and the Big Idea." *HCI Remixed*. Ed. by Thomas Erickson, David W McDonald. MIT Press, 2007.

Conference Papers (Refereed)

Shiye Cao, Maia Stiber, Amama Mahmood, Maria Teresa Parreira, **Wendy Ju**, Micol Spitale, Hatice Gunes, Chien-Ming Huang. "Err@ HRI 2.0 challenge: Multimodal detection of errors and failures in human-robot conversations." *ACM International Conference on Multimedia*. 2025, pp. 14130–14135.

Matthew Franchi, Hauke Sandhaus, Madiha Zahrah Choksi, Severin Engelmann, **Wendy Ju**, Helen Nissenbaum. "Privacy of Groups in Dense Street Imagery." *ACM Conference on Fairness, Accountability, and Transparency (FAccT)*. 2025.

Rachel DiPirro, Rosalyn Devonport, Dan Calderone, Mario Yang, **Wendy Ju**, Meeko Oishi. "Characterizing Human Feedback-Based Control in Naturalistic Driving Interactions via Gaussian Process Regression with Linear Feedback." *IEEE International Conference on Intelligent Transportation Systems (ITSC)*. Gold Coast, Australia, Nov. 2025.

JiHyun Jeong, David Goedicke, **Wendy Ju**, Guy Hoffman. "Simulating Multiple Road User Perspectives on Autonomous Vehicle Behaviors." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. Brisbane, Australia, Sept. 2025.

Stacey Li, Debargha Dey, Claudia Santacruz, **Wendy Ju**. "What Researchers Need from Driving Simulator Systems: A Thematic Analysis of Expert Interviews." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. Brisbane, Australia, Sept. 2025.

Kenshikimyo Terao, Ilan Mandel, Matt Franchi, Mario Yang, Mark Colley, **Wendy Ju**. "Evaluating Interfaces for Non-Driving Related Tasks While Operating an E-Scooter." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. Brisbane, Australia, Sept. 2025.

Chishang "Mario" Yang, Xiang Chang, Debargha Dey, Zhuoqi Xu, Avi Parush, **Wendy Ju**. "Socially Adaptive Autonomous Vehicles: Effects of Contingent Driving Behavior on Drivers' Experiences." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. Brisbane, Australia, Sept. 2025.

Hauke Sandhaus, Qiuquan Gu, Maria Teresa Parreira, **Wendy Ju**. "Co-Designing with Algorithms: Unpacking the Complex Role of GenAI in Interactive System Design Education." *ACM Conference on Designing Interactive Systems (DIS)*. Madeira, Portugal, July 2025.

Mohammad Faramarzian, Jorge Pardo, Ilan Mandel, Andry Rakotonirainy, **Wendy Ju**, Ronald Schroeter. "Decoding Driver Intention Cues: Exploring Non-verbal Communication for Human-Centered Automotive Interfaces." *ACM Conference on Human Factors in Computing Systems (CHI)*. Yokohama, Japan, Apr. 2025.

Matthew Franchi, Maria Teresa Parreira, Fanjun Bu, **Wendy Ju**. "The Robotability Score: Enabling Harmonious Robot Navigation on Urban Streets." *ACM Conference on Human Factors in Computing Systems (CHI)*. Yokohama, Japan, Apr. 2025.

Hannah RM Pelikan, Fanjun Bu, **Wendy Ju**. "The People Behind the Robots: How Wizards Wrangle Robots in Public Deployments." *ACM Conference on Human Factors in Computing Systems (CHI)*. Yokohama, Japan, Apr. 2025.

Micol Spitale, Maria Teresa Parreira, Maia Stiber, Minja Axelsson, Neval Kara, Garima Kankariya, Chien-Ming Huang, Malte Jung, **Wendy Ju**, Hatice Gunes. "ERR@HRI 2024 Challenge: Multimodal Detection of Errors and Failures in Human-Robot Interactions." *ACM International Conference on Multimodal Interaction (ICMI)*. ICMI '24. San Jose, Costa Rica: Association for Computing Machinery, Nov. 2024, pp. 652–656.

Alexandra Bremers, **Wendy Ju**. "Can Machines Tell What People Want? Bringing Situated Intelligence to Generative AI." *ACM Halfway to the Future Symposium (HttF)*. HttF '24. Santa Cruz, CA, USA: Association for Computing Machinery, Oct. 2024.

Natalie Friedman, Awsaf Ahmed, **Wendy Ju**. "Skins, Clothes, Costumes, Bling: How and Why Experts Dress their Robots." *ACM Halfway to the Future Symposium (HttF)*. HttF '24. Santa Cruz, CA, USA: Association for Computing Machinery, Oct. 2024.

Natalie Friedman, Asmita Mehta, Alexandra Bremers, Kari Love, Awsaf Ahmed, **Wendy Ju**. "A utility belt for an agricultural robot: reflection-in-action for applied design research." *ACM Halfway to the Future Symposium (HttF)*. HttF '24. Santa Cruz, CA, USA: Association for Computing Machinery, Oct. 2024.

Rachel DiPirro, Hauke Sandhaus, David Goedicke, Dan Calderone, Meeko Oishi, **Wendy Ju**. "Characterizing Cultural Differences in Naturalistic Driving Interactions." *IEEE International Conference on Intelligent Transportation Systems (ITSC)*. Edmonton, Canada: IEEE, Sept. 2024.

Matt Franchi, Debargha Dey, **Wendy Ju**. "Towards Instrumented Fingerprinting of Urban Traffic: A Novel Methodology using Distributed Mobile Point-of-View Cameras." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. Sept. 2024, pp. 53–62.

Navit Klein, Hauke Sandhaus, David Goedicke, **Wendy Ju**, Avi Parush. "Modeling Social Situation Awareness in Driving Interactions." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. Sept. 2024, pp. 259–271.

Maria Teresa Parreira, Sukruth Gowdru Lingaraju, Adolfo Ramirez-Artistizabal, Alexandra Bremers, Manaswi Saha, Michael Kuniavsky, **Wendy Ju**. ""Bad Idea, Right?" Exploring Anticipatory Human Reactions for Outcome Prediction in HRI." *IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)*. IEEE. Aug. 2024, pp. 2072–2078.

Ilan Mandel, **Wendy Ju**. "Designing with What Remains." *ACM Conference on Designing Interactive Systems (DIS)*. July 2024, pp. 3002–3015.

Sharon Yavo-Ayalon, Yuzhen Zhang, Ruixiang Han, Swapna Joshi, Fanjun Bu, Cooper Murr, Lunshi Zhou, **Wendy Ju**. "Behind the Scenes of CXR: Designing a Geo-Synchronized Communal eXtended Reality System." *ACM Conference on Designing Interactive Systems (DIS)*. July 2024, pp. 180–196.

Barry Brown, Fanjun Bu, Ilan Mandel, **Wendy Ju**. "Trash in Motion: Emergent Interactions with a Robotic Trashcan." *ACM Conference on Human Factors in Computing Systems (CHI)*. Honolulu, USA, May 2024.

Fanjun Bu, Stacey Li, David Goedicke, Mark Colley, Gyanendra Sharma, **Wendy Ju**. "Portobello: Extending Driving Simulation from the Lab to the Road." *ACM Conference on Human Factors in Computing Systems (CHI)*. Honorable Mention Award. Honolulu, USA, May 2024.

Debargha Dey, Toros Ufuk Senan, Bart Hengeveld, Azra Habibovic, **Wendy Ju**. "Multi-Modal eHMIs: The Relative Impact of Light and Sound in AV-Pedestrian Interaction." *ACM Conference on Human Factors in Computing Systems (CHI)*. Honolulu, USA, May 2024.

Yuzhen Zhang, Ruixiang Han, Ran Zhou, Peter Gyory, Clement Zheng, Patrick C. Shih, Ellen Yi-Luen Do, Malte Jung, **Wendy Ju**, Daniel Leithinger. "Wizard of Props: Mixed Reality Prototyping with Physical Props to Design Responsive Environments." *ACM Conference on Tangible Embedded and Embodied Interaction (TEI)*. Cork, Ireland, Feb. 2024.

Navit Alalouf Klein, Hauke Sandhaus, David Goedicke, Avi Parush, **Wendy Ju**. "Modeling Social Situation Awareness in Driving Interactions (presentation and extended abstract)." *Transportation Research Board Annual Meeting*. Washington DC, USA, Jan. 2024.

Saki Suzuki, Ilan Mandel, Stacey Li, Wen-Ying Lee, Mark Colley, **Wendy Ju**. "AdVANcing Design: Customizing Spaces for Vanlife." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. AutomotiveUI '23. Ingolstadt, Germany: Association for Computing Machinery, 2023, pp. 256–266.

Alexandra Bremers, Maria Teresa Parreira, Xuanyu Fang, Natalie Friedman, Adolfo Ramirez-Aristizabal, Alexandria Pabst, Mirjana Spasojevic, Michael Kuniavsky, **Wendy Ju**. "The Bystander Affect Detection (BAD) Dataset for Failure Detection in HRI." *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. Detroit, USA, Oct. 2023.

Ilan Mandel, **Wendy Ju**. "Recapturing Product as Material Supply: A Case Study around Hoverboards." *ACM Conference on Designing Interactive Systems (DIS)*. Pittsburgh, USA, July 2023.

Matthew Franchi, J.D. Zamfirescu-Pereira, **Wendy Ju**, Emma Pierson. "Detecting disparities in police deployments using dashcam data." *ACM Conference on Fairness, Accountability and Transparency (FAccT)*. New York, NY, USA: Association for Computing Machinery, June 2023.

David Goedicke, Alexandra W.D. Bremers, Sam Lee, Fanjun Bu, Hiroshi Yasuda, **Wendy Ju**. "XR-OOM: MiXed Reality driving simulation with real cars for research and design." *ACM Conference on Human Factors in Computing Systems (CHI)*. 2022.

Tahiya Chowdhury, Ansh Bhatti, Ilan Mandel, Taqiya Ehsan, **Wendy Ju**, Jorge Ortiz. "Towards Sensing Urban-Scale COVID-19 Policy Compliance in New York

City." *ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys)*. BuildSys '21. Coimbra, Portugal: Association for Computing Machinery, 2021, pp. 353–356.

Tahiya Chowdhury, Qizhen Ding, Ilan Mandel, **Wendy Ju**, Jorge Ortiz. "Tracking Urban Heartbeat and Policy Compliance through Vision and Language-Based Sensing." *ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys)*. BuildSys '21. Coimbra, Portugal, 2021, pp. 302–306.

Natalie Friedman, Kari Love, RAY LC, Jenny E Sabin, Guy Hoffman, **Wendy Ju**. "What Robots Need From Clothing." *ACM Conference on Designing Interactive Systems (DIS)*. DIS '21. Virtual Event, USA: Association for Computing Machinery, 2021, pp. 1345–1355.

J.D. Zamfirescu-Pereira, David Sirkin, David Goedicke, RAY LC, Natalie Friedman, Ilan Mandel, Nikolas Martelaro, **Wendy Ju**. "Fake It to Make It: Exploratory Prototyping in HRI (alt.HRI)." *ACM/IEEE International Conference on Human-Robot Interaction (HRI) Companion*. 2021.

Jamy Li, Rebecca Currano, David Sirkin, David Goedicke, Hamish Tennent, Aaron Levine, Vanessa Evers, **Wendy Ju**. "On-road and online studies to investigate beliefs and behaviors of Netherlands, US and Mexico pedestrians encountering hidden-driver vehicles." *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*. 2020, pp. 141–149.

Nikolas Martelaro, Sarah Mennicken, Jennifer Thom, Henriette Cramer, **Wendy Ju**. "Using Remote Controlled Speech Agents to Explore Music Experience in Context." *ACM Conference on Designing Interactive Systems (DIS)*. 2020, pp. 2065–2076.

Florian Floyd Mueller, Pedro Lopes, Paul Strohmeier, **Wendy Ju**, Caitlyn Seim, Martin Weigel, Suranga Nanayakkara, Marianna Obrist, Zhuying Li, Joseph Delfa. "Next Steps for Human-Computer Integration." *ACM Conference on Human Factors in Computing Systems (CHI)*. 2020, pp. 1–15.

Srinath Sibi, Stephanie Balters, Ernestine Fu, Ella G Strack, Martin Steinert, **Wendy Ju**. "Back to School: Impact of Training on Driver Behavior and State in Autonomous Vehicles." *IEEE Intelligent Vehicles Symposium (IV)*. IEEE. 2020, pp. 1189–1196.

Marcel Walch, Stacey Li, Ilan Mandel, David Goedicke, Natalie Friedman, **Wendy Ju**. "Crosswalk Cooperation: A Phone-Integrated Driver-Vehicle Cooperation Approach to Predict the Crossing Intentions of Pedestrians in Automated Driving." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. 2020, pp. 74–77.

Wendy Ju, Ilan Mandel, Kevin Weatherwax, Leila Takayama, Nikolas Martelaro, Denis Willett. "Remote Observation of Field Work on the Farm." *Microsoft New Future of Work Conference*. Microsoft. Aug. 2020.

Lorin Dole, **Wendy Ju**. "Face and Ecological Validity in Simulations: Lessons from Search-and-Rescue HRI." *ACM Conference on Human Factors in Computing Systems (CHI)*. 2019, pp. 1–8.

Natalie Friedman, Andrea Cuadra, Ruchi Patel, Shiri Azenkot, Joel Stein, **Wendy Ju**. "Voice assistant strategies and opportunities for people with tetraplegia." *ACM SIGACCESS Conference on Computers and Accessibility*. 2019, pp. 575–577.

Sven Krome, David Goedicke, Thomas J Matarazzo, Zimeng Zhu, Zhenwei Zhang, JD Zamfirescu-Pereira, **Wendy Ju**. "How people experience autonomous intersections: taking a first-person perspective." *ACM International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutoUI)*. 2019, pp. 275–283.

Dylan Moore, Tobias Dahl, Paula Varela, **Wendy Ju**, Tormod Næs, Ingunn Berget. "Unintended Consonances: Methods to Understand Robot Motor Sound Perception." *ACM Conference on Human Factors in Computing Systems (CHI)*. 2019, pp. 1–12.

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Origami Desk, 2002. Boston Museum of Science. March 24-31, 2002.

Courses and Workshops

JaeWon Kim, Jiaying "Lizzy" Liu, Cassidy Pyle, Sowmya Somanath, Lindsay Popowski, Hua Shen, Casey Fiesler, Gillian Hayes, Alexis Hiniker, **Wendy Ju**, Florian 'Floyd' Mueller, Ahmer Arif, Yasmine Kotturi. Design as Hope: Reframing Complex Societal Challenges Through Collaborative Reflection. Workshop at ACM CSCW 2025, Bergen, Norway.

Meeko Oishi, **Wendy Ju**, Ufuk Topcu, Avinash Baskaran, Brian Scasaletti. NSF M3X Visioning Workshop: Formalization of Human Factors into Computational Models. 30 person workshop. September 18, 2025.

Alicia Gibb Seidle, Joey Castillo, Yves Nazon, Avinash Baskaran, **Wendy Ju**. NSF workshop on Open Healthware. 200 person event at Cornell Tech, August 1-2, 2025.

David Goedicke, Stacey Li, Donald Degraen, Kevin John, Yuta Sugiura, Tian Min, Hyunyoung Kim, Sonya Kwak, Valkyrie Savage, Tom Igoe, David Sirkin, **Wendy Ju**, Stephen Schneegass. Bring Your Own Interface: Exploring Tactile Interaction in Maritime Automation. Workshop at ACM DIS 2025, Madeira, Portugal.

Saki Suzuki, Ilan Mandel, Kenshikimyo Terao, Nikolas Martelaro, Soichiro Iga, Amritansh Kwatra, Hiroshi Yasuda, Tom Igoe, Lionel Peter Robert Jr, **Wendy Ju**. Bridging HCI and Industrial Manufacturing. Workshop at ACM CHI 2025, Yokohama, Japan.

Jasmine Lu, Ilan Mandel, **Wendy Ju**, Pedro Lopes. (W)E-waste: Creative Making with Rescued Computing Devices. Workshop at ACM Creativity and Cognition 2024, Chicago, USA.

David Sirkin, JD Zamfirescu-Pareira, **Wendy Ju**. "Make This! Introduction to Electronics Prototyping Using Arduino." Course at ACM CHI 2024, Honolulu, USA.

Katherine W Song, Fiona Bell, Himani Deshpande, Ilan Mandel, Tiffany Wun, Mirela Alistar, Leah Buechley, **Wendy Ju**, Jeeeun Kim, Eric Paulos, Samar Sabie, Ron Wakkary. "Sustainable Unmaking: Designing for Biodegradation, Decay, and Disassembly." Workshop at CHI 2024, Honolulu, USA.

Patrick Ebel, Pavlo Bazilinskyy, Angel Hsing-Chi Hwang, **Wendy Ju**, Hauke Sandhaus, Aravinda Ramakrishnan Srinivasan, Qian Yang, and Philipp Wintersberger. "Breaking Barriers: Workshop on Open Data Practices in AutoUI Research." Workshop at Automotive UI 2023, Ingolstadt.

Saki Suzuki, Mark Colley, Stacey Li, Ilan Mandel, Annika Stampf, and **Wendy Ju**. " Design Methods for Mobility After Manual Driving: Prototyping Mobile Lifestyle." Workshop at Automotive UI 2023, Ingolstadt.

Matthias Baldauf, Peter Fröhlich, Virpi Roto, Philippe Palanque, Siân Lindley, Jon Rogers, **Wendy Ju**, and Manfred Tscheligi. "Engaging with Automation: Understanding and Designing for Operation, Appropriation, and Behaviour Change." Workshop at CHI 2022, New Orleans.

Andreas Reiner, **Wendy Ju**, Bastian Pfleging. Dagstuhl Seminar on Radical Innovation and Design in the Age of Connected and Autonomous Vehicles. May 29-June 3, 2022, Schloss Dagstuhl, Wadern Germany.

Wendy Ju, David Goedicke. 2019-20. Neural Nets for Music. Workshop in Stanford Center for Research in Music and Acoustics Summer Workshop series. 2019 Stanford, CA, 2020 online.

Matthias Baldauf, Peter Fröhlich, Shadan Sadeghian, Phillipe Palanque, Virpi Roto, **Wendy Ju**, Lynne Baillie, Manfred Tscheligi. Automation Experience at the Workplace. Workshop at CHI 2021.

David Goedicke, Hamish Tennent, Dylan James Moore, **Wendy Ju**. Acoustically Aware Robots: Detecting and evaluating sounds robots make and hear. Virtual Tutorial at HRI 2021.

Natalie Friedman, Kari Love, Alexandra Bremers, AJ Parry, Ray LC, Bolor Amgalan, Jen Liu, **Wendy Ju**. Clothes for robots: An interactive workshop on how clothes can be functional for robots. Virtual Tutorial at HRI.

Wendy Ju & David Sirkin. Designing interaction at a Distance. Human-Machine Interaction workshop held online for Bezalel Academy of Arts and Design, Jerusalem. January 21, 22 & 28, 2021.

Wendy Ju, Helen Nissenbaum, Silvia Ferrari, Jake Goldenfein, Sharon Ayalon. Autonomous Vehicles: What's the worst that could happen? Friday, March 13, 2020. Cornell Tech/online.

David Sirkin, Nikolas Martelaro, **Wendy Ju**. (repeated) Make This! Introduction to Electronics Prototyping Using Arduino. Course at Human Factors in Computing Systems (2013-2014, with David Sirkin, 2016-2019, with David Sirkin, Nikolas Martelaro).

Nikhil Gowda, David Sirkin, **Wendy Ju**. 2016. Prototyping HMI for Autonomous Vehicles. In Automotive User Interfaces and Interactive Vehicular Applications (AutoUI 2016). Ann Arbor, MI.

Alexander Meschtscherjakov, Manfred Tscheligi, Dalia Stostak, Sven Krome, Rabindra Ratan, Bastian Pfleging, Ioannis Politis, Sonia Baltodano, David Miller, & **Wendy Ju**. HCI and Autonomous Vehicles: Contextual Experience Informs Design. Workshop. Human Factors in Computing Systems (CHI 2016). San Jose, CA.

Nikolas Martelaro, Michael Shiloh & **Wendy Ju**. 2016. The Interaction Engine: Tools for Prototyping Connected Devices. In Tangible, Embedded, and Embodied Interaction (TEI 2016). Eindhoven, Netherlands.

Andreas Riener, Ignacio Alvarez, Lewis Chuang, **Wendy Ju**, Bastian Pfleging and Mario Chiesa. 2015. Practical Experiences in Measuring and Modeling Drivers and Driver-Vehicle Interactions. In Automotive User Interfaces and Interactive Vehicular Applications (AutoUI 2015). Nottingham, UK.

Wendy Ju, Edgar Berdahl, 2009-2012. New Music Controllers. Workshop in Stanford Center for Research in Music and Acoustics Summer Workshop series. Summer 2009-2012. Stanford, CA.

Wendy Ju, Matthew Wright, 2005. Physical Interaction Design. Workshop in Stanford Center for Research in Music and Acoustics Summer Workshop series. Summer 2005. Stanford, CA.

PATENTS

Walter Joseph Talamonti, Mishel Johns, **Wendy Ju**. *Steering-wheel control mechanism for autonomous vehicle*. US Patent 10,538,268. Jan. 2020.

Walter Joseph Talamonti, Mishel Johns, **Wendy Ju**. *Steering-wheel feedback mechanism*. US Patent 10,259,496. Apr. 2019.

RESEARCH GRANTS & GIFTS

Awarded, PI

National Science Foundation IIS-2212431: **NSF-BSF: HCC: Medium: Cultural Differences in Pedestrian-Autonomous Vehicle Interaction**
With Qian Yang, Cornell, and Avi Parush, Technion
Amount: $599,986, *Dates:* 9/01/2022 - 9/30/2024

National Science Foundation IIS-2107111: **HCC: Medium: Cultural Differences in Driving Interaction**
With Qian Yang, Cornell, and Avi Parush, Technion
Amount: $800,000, *Dates:* 10/01/2021 - 9/30/2024

National Science Foundation IIS-2028009: **RAPID: Tracking Urban Mobility and Occupancy under Social Distancing Policy**
Amount: $49,705, *Dates:* 5/1/2020-10/31/20

Awarded, Co-PI

National Science Foundation M3X-2526599: **Workshop: Collaborative Research: NSF/M3X Visioning Workshop on Formalization of Human Factors into Computational Models**
With Meeko Oishi, University of New Mexico
Amount: $ 33,872 *Dates:* 4/15/2025-4/14/2026

National Science Foundation IIS-2423127: **FRR: Social and Contextual Models of Interaction with Everyday Robots**
With Angelique Taylor, Cornell
Amount: $747,744, *Dates:* 10/01/2024 - 9/30/2027

National Science Foundation IIS-2222534: **FW-HTF-P: Using Technology to Transform Makers into Creative Entrepreneurs**
With Nikolas Martelaro, Laura Dabbish, and Yasmine Kotturi, CMU, and Mukti Khaire, Cornell
Amount: $101,201, *Dates:* 10/01/2022 - 9/30/2023

Australian Research Council. **Intention-Aware Cooperative Driving Behaviour Model for Automated Vehicles.**
With Andry Rakotonirainy and Ronald Schroeter, Queensland University of Technology. Amount: AUD$ 403,052, *Dates:* 5/29/2018 – 5/28/2021 *(extended to 12/31/2021)*

Industrial

Tata Consulting Group. **Public Interaction with Everyday Mobile Robots**
Awarded $153,484, 8/1/2022-12/31/22.

Tata Consulting Group. **Immersive XR experiences to transform community awareness of climate issues** Awarded $153,484, 1/1/2022-6/30/23.

Woven Planet. **Authoring and Adapting Mixed Reality On-Road Driving Simulation.** Awarded $203,876, 9/1/2022 – 12/31/2023.

Toyota Research Institute. **Virtual Reality On-rOad driving simulation.** Awarded $149,922, 5/1/2019 – 4/30/2020, *(extended $88,752.00 to 3/31/2022)*

Nissan Motor Company. **Social Intelligence in the Automobile.** Awarded $95,000, 11/30/2021-6/30/2022.

Nissan Motor Company. **Active Learning to Understand Family Social Behaviors in the Automobile.** Awarded $54,495, 12/1/2020-3/31/2021.

Nissan Motor Company. **Transforming Uncomfortable Silences Into Comfortable Silences.** Awarded $84, 127, 6/1/2019-12/31/2019.

Mitsubishi Motors. **Toolkit for Evaluating Interactive Artificial Intelligence Systems.** Awarded $82,964, 11/14/2018 – 4/30/2019.

Toyota Research Institute. **Understanding Driver State in Laboratory and Naturalistic Environments.** Awarded $1,560,000. 12/1/2015 – 11/30/2018.

Ford Motor Company. **Shared Control in Driver Vehicle Automation.** Awarded $262,961.00, 1/1/2017 – 12/31/2018.

Ford Motor Company. **Socially Acceptable Motion for Pedestrian Assistive Devices.** Awarded $262,810.00, 1/1/2017 – 12/31/2018.

Intramural, PI

Multi-Investigator Seed Grant. **Designing Voice Interaction for People with Tetraplegia.**
With Joel Stein, Shiri Azkenkot, Malte Jung, Cornell. Amount: $2000
Dates: January 15 – April 30, 2020 *(extended due to COVID-19)*

Intramural, Co-PI

Cornell Initiative for Digital Agriculture Research Initiation Fund. **Co-creating a human-machine interface better adapted for on-farm data recording, curation, management, and use.**
With Louis Longchamps, Immanuel Turner, Diane Bailey, Cornell. Amount: $150,000, *Dates:* 10/1/2021-9/31/23

HONORS & AWARDS

ACM CHI Academy. For having made a significant, cumulative contributions to the development of the field of human–computer interaction and have influenced the research of others. May 2025.

Best Demo Award. ACM Automotive UI 2024. For "GrokWalks: A Portable Virtual Reality Platform to Facilitate Studying Driver-Pedestrian Interactions." With Debargha Dey, David Goedicke, Chishang "Mario" Yang, David Sirkin, and Rebecca Currano.

Best Paper Honorable Mention. ACM Automotive UI 2024. For "Towards Instrumented Fingerprinting of Urban Traffic: A Novel Methodology using Distributed Mobile Point-of-View Cameras." With Matthew Franchi and Debargha Dey.

Honorable Mention. ACM Designing Interactive Systems 2024. For "Behind the scenes of CXR: Designing a Geo-Synchronized Communal eXtended Reality System." With Sharon Yavo-Ayalon, Yuzhen Zhang, Ruixiang Han, Swapna Joshi, Fanjun Bu, Cooper Murr, and Lunshi Zhou.

Honorable Mention. ACM CHI 2024. For "Portobello: Extending Driving Simulation from the Lab to the Road." With Fanjun Bu, Stacey Li, David Goedicke, Mark Colley, and Gyanendra Sharma.

Digital Futures Scholar-in-Residence. June to December 2024. KTH University, Stockholm, Sweden.

Best Paper Award. Multimodal Technologies and Interaction. For Building Community Resiliency through Immersive Communal Extended Reality (CXR)." With Sharon Ayalon, Swapna Joshi, Yuzhen "Adam" Zheng, Ruixiang "Albert" Han, Narges Mahyar.

Honorable Mention. ACM Designing Interactive Systems 2023. For "Recapturing Product as Material Supply: Hoverboards as Garbatrage." With Ilan Mandel.

Honorable Mention. ACM Designing Interactive Systems 2021. For "What Robots Need from Clothing. Designing Interactive Systems 2021. Honorable Mention Award." With Natalie Friedman, Kari Love, RAY LC, Jenny E Sabin, Guy Hoffman.

Best Demonstration Award. ACM Computer Supported Cooperative Work 2017. For "WoZ Way: Enabling real-time remote interaction prototyping & observation in on-road vehicles." With Nikolas Martelaro.

Computer Research Association Leadership Academy. May 22-23, 2023.

Amazon Research Award. Enabling Machines to Recognize and Repair Errors in Interaction. Winter 2020.

Mozilla Research Grant. Look at Me When I Talk to You: Video Data Corpus of People Reacting to Chatbot Answers to Enable Error Recognition and Repair. Fall 2017.

Best Student Paper Award. IEEE Intelligent Transportation Systems 2017. For "Actions Speak Louder: Effects of a Transforming Steering Wheel on Post-Transition Driver Performance." With Brian Mok, Mishel Johns, Stephen Yang.

Best Poster Paper Finalist. IEEE World Haptics 2017. For "Comparing Haptic and Audio Navigation Cues on the Road for Distracted Drivers with a Skin Stretch Steering Wheel." With Christopher Ploch, Jung Hwa Bae, Mark Cutkosky.

Best Demonstration Award. ACM Computer Supported Cooperative Work 2017. For "WoZ Way: Enabling real-time remote interaction prototyping & observation in on-road vehicles." With Nikolas Martelaro.

Best Student Paper Nomination, Surface Transportation Track, Human Factors and Ergonomics Society 2016 Annual Meeting. Washington DC. Oct 2016. With David Miller, Mishel Johns, Brian Mok, Nikhil Gowda, David Sirkin, & Key Lee.

Highlight Presentation (Top 20 papers out of 800), Intelligent Robots and Systems (IROS 2016), Daejeon, Korea, Oct, 2016. With Christopher Ploch, Jung Hwa Bae, & Mark Cutkosky.

Best Student Paper, Surface Transportation Track, Human Factors and Ergonomics Society 2015 Annual Meeting. Los Angeles, CA. Oct 2015. With David Miller, Annabel Sun, Mishel Johns, Page Ive, David Sirkin & Sudipto Aich.

Best Demonstration Award, ACM/IEEE Human-Robot Interactions Conference 2015 for Mechanical Ottoman. Portland, OR. Mar 2015. With David Sirkin, Brian Mok & Stephen Yang.

Google Faculty Research Award. Sensing and Responding to Driver Emotion. Winter 2015. *With Larry Leifer.*

Intel Foundation PhD Fellowship, Stanford University, AY 2005 – 2007.

RECOGNITION

Invited talks

Invited Keynote. Northeast Robotics Colloquium. Ithaca, New York, October 11, 2025.

Invited Speaker. Towards online learning from implicit human response and feedback. Apple, Inc. Human Centered Machine Learning workshop on Design for Responsible AI. August 19, 2025.

Invited Speaker. Toyota Research Institute. Urban Scale Interaction: Expanding the Horizon of HCI. Los Altos, CA June 24, 2025.

Invited Speaker. IEEE ICRA 2025 Workshop, Pulling the Strings on Creative Collaborations: A Retrospective on Puppetry, Choreography, and Control. Atlanta, Georgia, May 20, 2025.

Invited Keynote. IEEE ICRA 2025 Robot Ethics Forum. Atlanta, Georgia, May 23, 2025.

Invited Speaker. Human Robot Interaction Design Retreat. NSF-sponsored visioning workshop. Detroit, Michigan, April 14-15, 2025.

Invited Speaker. Intelligent Robotics and Communication Laboratorie, Advanced Telecommunications Research Institute Interaction, Kyoto University, Japan, April 25, 2025.

Invited panelist. Pushing the Frontiers of Robotics AI. Stanford Human-centered AI conference on Robotics in a Human-Centered World: Innovations and Implications. April 1, 2025.

Invited seminar speaker. Robots in City. Oregon State University, Corvallis. February 28, 2025.

Digital Futures Scholar-in-Residence Presentation. If we can make it there: Notes on urban interaction. KTH, Stockholm Sweden. October 31, 2024.

Invited Keynote. Robot as Urban Flâneur. International Conference for Social Robotics 2024. Odense, Denmark, October 23-26, 2024.

Seminar Speaker. If we can make it there: Notes on urban interaction. Stanford University Computer Science People, Computers and Design seminar. September 26, 2024.

Keynote speaker. Trust requires Social Intelligence. EU Horizon 2020 TAILOR conference on "Trustworthy AI From lab to market." June 4-5, 2024. Lisbon, Portugal.

Invited talk. Interaction in Real and Virtual Worlds. AI Centre at University of Copenhangen. June 10, 2024.

Invited colloquium speaker. Interaction in Real and Virtual Worlds. Rutgers University. April 17th, 2024. Electrical and Computer Engineering Colloquium Speaker. New Brunswick, New Jersey.

Guest lecture. Interaction Intelligence for Everyday Robots. Creative Innovation Across Disciplines. Nottingham School of Art and Design, March 20, 2024. Remote.

Invited Workshop Panelist. Designing an HRI Course for Undergraduate Education. March 11, 2024. Human Robot Interactions 2024, Boulder, Colorado.

Invited talk. Interactions in Real and Imagined Worlds. ABB, online. February 28, 2024.

Guest lecture. Challenges of entrepreneurship for makers and open hardware. February 12, 2024. Future of work. Ivey Business Shool, Western University, London, Canada.

Invited Speaker. NYC Transportation Data Connect Symposium, January 24-25, 2024.

Invited Panelist. Workshop for Klara: Opera in 4 Haikus, New York City Opera and Opera Hispanica, January 22, 2024.

William Pierson Field Lecture. Designing Interactions with Robots. December 5, 2023. Princeton Computer Science, Princeton New Jersey.

Invited talk. Open City: Urban Digital Twins to Support Public Interaction and Mobility Research at Scale. November 15, 2023. Hackster Impact Summit, Resilient and Sustainable Cities. Online.

Invited panel on Designing and Living with Smart Technologies — attuning through noticing, moving, touching, and feeling. (Virtual participant) October 19, 2023. Stockholm, Sweden.

Invited Workshop Keynote. Holistic HMI Design for Automated Vehicles: Bridging In-Vehicle and External Communication. September 18, 2023. Automotive UI 2023, Ingostadt, Germany.

Invited Colloquium Talk, Strangers Passing: On Public Interactions Between People and Autonomous Systems, May 12, 2023, Chalmers University, Gothenburg Sweden.

Invited Keynote, Interaction Intelligence for Automation XP, 2023 CHI Workshop on AutomationXP23: Intervening, Teaming, Delegating - Creating Engaging Automation Experiences, April 23, 2023, Online/Hamburg Germany.

Invited Plenary Talk, Strangers Passing: On public interactions between people and autonomous systems, 2022 IFAC Workshop on Cyber-Physical Human Systems, December 1-2, 2022, Houston, Texas.

Guest lecturer, Interaction Intelligence for Robots and beyond. CS 339H: Human-Computer Interaction and AI/ML, Stanford University CS, December 1, 2022. Online.

Invited speaker, Interaction Intelligence for Robots and beyond. Rice University CS Colloquium, November 30, 2022. Houston, Texas.

Invited speaker, Interaction Intelligence for Robots. Accenture Distinguished Researcher Speaker Series, October 21, 2022. Online.

Invited Keynote, Understanding People is the Hardest Part of Automation, FFVC Drones and Robots Summit, September 20, 2022, New York City.

Invited Keynote, Participatory Design in Human-Robot Interaction for RO-MAN, August 29 2022, Naples, Italy.

Invited speaker, Toward a Theory of AI Practice, at the Bellagio Conference Center in Lake Como, Italy, July 18-22, 2022.

Invited Keynote, Symposium on Human-Computer Interaction for Work (CHIWORK) annual meeting, June 8-9 2022 at Durham, New Hampshire.

Invited Spotlight talk Speaker, Cornell Leadership Week. March 25th, 2022.

Invited Speaker, American Technion Society's Presidential Forum, New York City. Meeting the Grand Challenges of the 21st Century. March 17-19th, 2022.

Invited Speaker, 2nd International Workshop on Designerly HRI Knowledge. Reflecting on HRI practices through Annotated Portfolios of Robotic Artefacts. Human Robot Interactions 2022, March 11th, 2022, online.

Invited Speaker, "The Car as a Vehicle for Understanding Interaction at Scale," Northwestern University Mechanical Engineering Seminar Series (online), November 1, 2021.

Colloquium Speaker, "Theatre of the Car." University of New Mexico Computer Science Department, September 15, 2021.

Invited Keynote, IJCAI workshop on AI for Autonomous Driving. Montreal, Canada (virtual). https://www.ai4ad.net August 20, 2021.

Featured Speaker, "Innovation and Automation: the drive to autonomous vehicles" Cornell Silicon Valley Annual Conference (online). March 30th, 2021.

Invited Speaker, “Design as the stage where knowledge is performed.” HRI Research through Design Workshop. Boulder, CO (online). March 8, 2021.

Invited Speaker, “Tracking Urban Mobility and Occupancy under Social Distancing Policy.” Federal Privacy R&D Interagency Working Group. Washington DC (online). February 5, 2021.

Invited Speaker, "Invisible Robots." Guest lecture 16-831 Statistical Techniques in Robotics - "RoboStats", Carnegie Mellon University (online), November 19, 2020.

Invited Seminar Speaker, “Remote observation of farm vehicle interaction.” Cornell Initiative for Digital Agriculture (CIDA) Seminar Series (online). November 16, 2020.

Invited Seminar Speaker, "Prototyping Possible Futures” Guest lecture for DEA 1110 Making a Difference by Design. Cornell (online). September 30, 2020.

Invited Keynote, “Interaction Research in the Age of the Pandemic.” First annual Summer School of the Research Training Group “Social Embeddedness of Autonomous Cyber Physical Systems”. University of Oldenburg (online). September 1, 2020.

Invited Panelist, "Robots everywhere?!? Interacting with robots in tomorrow’s society," June 4, 2020. Part of HCI and the Future of Work and Wellbeing: A series of Conversations.

Invited Speaker, "Implicit Interactions." Guest lecture HRI Graduate Seminar, UC Santa Cruz (online), April 28 2020.

Invited Speaker, “A Car is a Robot You Sit Inside of.” Temple University. Philadelphia, PA. February 3, 2020.

Guest Speaker, "How can we design with AI & Machine Learning?", AI & Society class at Carnegie Mellon, January 22, 2020.

Invited Speaker, “Invisible Robots,” Brooklyn Tech. New York, NY. December 6, 2019.

Invited Talk. “Invisible Robots,” Northeast Robotics Colloquium. University of Pennsylvania, PA. October 12, 2019.

Invited Panelist, “DARQ Matters,” Silicon Harlem Sixth Annual Next-Gen Tech Conference & Job Fair. New York, NY. October 18, 2019.

Invited Speaker, "Theatre of the Car," Cognizant Autonomous Systems for Safety Critical Applications Conference, Miami, FL. September 17, 2019.

Invited Speaker, "Where did this $@#$! Autonomous Car Learn to Drive? Addressing Cross-cultural differences Autonomous Car Design," Mozilla, Mountain View, CA. August 1, 2019.

Invited Keynote Discussant, "Sympathy for the Devil," ACM Designing Interactive Systems, San Diego, CA. June 27, 2019.

Invited Participant, ISAT/DARPA Workshop on "Designing for Values, Interactivity, Contestability, & Ethics in Systems (DeVICES)" Berkeley, CA. April 2-3, 2019.

Invited Speaker, "Putting Humans in the AV Driver's Seat: Autonomous Vehicles–People, Policy and Law." Workshop on Transportation Technology & Society, University of Connecticut. April 1, 2019.

Invited Participant. Dagstuhl seminar on "Users and automated driving systems: How will we interact with tomorrow's vehicles?" Dagstuhl, Germany. March 24-29, 2019.

Invited Participant. NSF Embodied Conversational Agent-Human Robot Interaction Workshop. Boulder, CO. October 20-22, 2018.

Invited Panelist, with Yumi Kawabata, Ben Rabinowitz. Going Global: The Future of Auto Tech Opportunities for U.S.-Japan-Israel Cooperation. October 17, 2018.

Invited talk. Theatre of the Future: Autonomous Vehicles as a Test Case for Designing for Speed, Speed Conference, September 28-29, 2018. New York City, NY.

Speaker & Moderator. Designing Smart Objects, Sketching in Hardware Conference, July 27-29, 2018. Detroit, MI.

Invited Panelist, with Mariette DiChristina, moderator, Jessica Brillhart, Matthew Liao, Hod Lipson, Max Tegmark, 2018, panelist. To be or not to be bionic: on immortality and superhumanism, World Science Festival, June 2, 2018. New York City, NY.

Invited talk. Beyond Brains and Beauty: Design in the Age of AI. Humanizing AI workshop, Stockholm, Sweden. May 31, 2018.

Session Leader, Everyday Interaction with Robots. President's Council of Cornell Women, New York City, NY. April 13, 2018.

Invited Panelist, with Ikeuchi Katsushi, Oishi Takesi, Miles Pennington. Re: Rethinking the Robot. UTokyo-NY workshop. New York City, NY. March 22, 2018.

Invited Speaker. Apple University Presents. Cupertino, CA. August 13, 2018.

Invited Participant. Dagstuhl seminar on "Human-Computer Integration." Dagstuhl, Germany. August 5-10, 2018.

Featured Panelist. Future of Robotics. Design Lab, New York City, NY. March 22, 2018.

Invited Speaker. Demystifying Self-driving Vehicles. Urban Land Institute, Tata Center for Innovation. New York City, NY. February 21, 2018.

Invited Speaker, with director Alex Rivera. Discussion on Sleep Dealer. Science on Screen series. Museum of the Moving Image, Astoria, New York City, NY. December 3, 2017.

Invited Speaker Speaker. 2017. A Car is a Robot You Sit Inside of. Human-Robot Interaction Mini-Symposium. Cornell, Ithaca, NY. November 26, 2017.

Invited Panelist, with Stefan Heck, Clay Kunz, & Joshua Greene. "When the Ethics Meets the Road - How Should Cars Decide?" Stanford Symbolic Systems 30th Anniversary Celebration weekend. Stanford, CA. May 19, 2017.

Invited plenary speaker. "Power in Human Robot Interactions." Robo-Philosophy Conference. Oct 17-21, 2016. Aarhus, Denmark.

Closing keynote speaker. "Robots in Our Midst." MexIHC, Mexican Conference on Human-Computer Interaction. Sep 21-23, 2016. Colima, Mexico.

Invited speaker. "A Field Guide to Robots." Symposium on Robots in Public Spaces. Sep 14, 2016. University of Twente, Netherlands.

Invited Participant. Dagstuhl seminar on "Automotive User Interfaces in the Age of Automation." June 26-July 1, 2016. Dagstuhl, Germany.

Invited Panelist, with Stelarc, Natalie Jeremijenko, Cat Matson. "Never Mind: Beyond Flesh and Body." ACM 2016 Designing Interactive Systems Conference. Plenary Discussion Panel. Jun 4-8, 2016. Brisbane, Australia.

Invited keynote. 'Trust and Interaction in Public Spaces." Social Trust in Autonomous Robots Workshop. 2016 Robotics: Science and Systems Conference. Jun 18-22, 2016. Ann Arbor, MI.

Panelist. "Four Women in Robotics." With Sabrina Merlo. (Moderator), Nan Eastep, Tessa Lau, Lisa Winter. Maker Faire Bay Area. May 21, 2016. San Mateo, CA.

Panelist. "One Robot Doesn't Fit All." South by Southwest Interactive. Nuri Kim. (Moderator). Leila Takayama, Thav Ranatunga, Wendy Ju. Mar 12, 2016. Austin, TX.

Invited Speaker. "Theatre of the Car." Milano Design PhD Festival, Italy. Mar 9, 2016. Milan, Italy.

Invited Panelist. "The Next Big Thing: Is Typing Dead?' Brian Cooley & Tim Stevens. (Moderators). Marcus Behrendt, Susan Bennett, Wendy Ju, Patti Maes, Vlad Sejnoha. Consumer Electronics Show. Jan 6, 2016. Las Vegas, NV.

Invited speaker for UC Berkeley Institute of Design Seminar Series. Dec 15, 2015. Berkeley, CA.

Invited speaker for General Robotics, Automation, Sensing and Perception (GRASP) Lab at University of Pennsylvania. Dec 6, 2015. Philadelphia, PA.

Invited Keynote Speaker. "Welcome Robot Overlords?" International Conference on Social Robotics. Oct 29, 2015. Paris, France.

Invited talk. "Transforming Design: Interaction with Robots and Cars." Stanford's HCI Seminar on People, Computers and Design. Oct 9, 2015. Stanford, CA.

Invited talk. "Theatre of the Car." Distinguished Speaker Program in Computer Science at Instituto Tecnologico Autonomo de Mexico (ITAM). Aug 22, 2015. Mexico City, Mexico.

Invited speaker. "Car as Theatre." Autospaces 2025 at Art Center. May 21, 2015. Pasadena, CA.

Invited speaker. "Driven By Design." Automotive Cockpit Human-Machine Interaction 2015 Symposium, May 19-21, 2015. Detroit, MI.

Invited panelist. "Challenges in Human Machine Interaction." With Sean Andrist (moderator), Hirshberg, J, & Ward, N. (panelists). At AAAI Spring Symposium on Turn-taking and Human-Machine Interaction. Mar 23-25, 2015. Stanford, CA.

Invited panelist. "Human Robot Interaction Pioneers." With Daniel Szafir (moderator), Adriana Tapus, & Christoph Bartneck (panelists) Workshop at Human-Robot Interaction 2015. Mar 2, 2015. Portland, OR.

Invited panelist. "The Role of Technology in the Design School Curriculum." With Andrew Maxwell-Parish (moderator), Michael Shiloh, Asta Rose, Phillip van Allen, Donald Norman, M.W Meyer, J. Date. (panelists) 2015. Interaction Design Association 2015 Education Summit. Feb 8th, 2015. San Francisco, CA.

Invited Speaker. "Creating Connections." UC San Diego Design At Large Lecture Series. Oct 6, 2014. San Diego, CA.

Invited panelist. "Autonomous Driving." With Dalia Szostak, (moderator), Jim Foley, Jay Joseph, Sam LaMagna, Sabine Langlois, Lee Skrypchuk (panelists). AutoUI. Sep 19, 2014. Seattle, WA.

Invited panelist. "System Engineering Human-Centered Intelligent Vehicles." With Lefevre, S. (moderator), Mohan Trivedi, Christian Schlegel (panelists). Workshop at IEEE International Conference on Systems, Man, and Cybernetics. Oct 5, 2014. San Diego, CA.

Invited panelist. "Toward 2020: Human Interaction with Autonomous Vehicles." With Martin Sierhus & Vanessa Evers (moderators), Manfred Tscheigli, Ulrich Bueker, Bernhard Sendhoff (panelists). ACM/IEEE International Conference on Human-Robot Interaction. Mar 3-6, 2014. Bielefeld, Germany.

Invited speaker. "The Mechanical Ottoman (& other interactive furnishings)." UC Berkeley Institute of Design Guest Lecture Series. Oct 22, 2013. Berkeley, CA.

Invited talk. “Sketching at Berkeley.” With Bjoern Hartmann. Sketching in Hardware 2013. Jul 19-21, 2013. Palo Alto, CA.

Invited panelist. “From Android to Humanoid: Human-Computer Interaction and the Next Generation of Robotics.” With Alex Madrigal (Moderator) & David Hanson, panelists. The Atlantic’s Big Science Summit, Oct 30, 2012. San Jose, CA.

Invited Keynote. “How Motion Matters.” Keynote speaker for Diseño + Tecnología, 5th International Meeting of Research in Design. Universidad Icesi, Oct 25 – 27, 2012. Cali, Colombia.

Invited Participant. William Drenttel & Michael Mossoba, organizers. Winterhouse Third Symposium on Design Education and Social Change. Symposium participant. Yale University, Aug 19-21, 2012. New Haven, CT.

Invited Speaker. “New Trajectories in Teaching Electronics.” Presentation at Sketching in Hardware 2012. Jul 20-22, 2012. Portland, OR.

Invited Speaker. “How Motion Matters.” Invited talk at Berkeley Center for New Media Feb 21, 2012. Berkeley, CA.

Invited Speaker. “Designing Implicit Interactions.” Guest lecture for Tangible User Interfaces course at UC Berkeley School of Information. Nov 21, 2011. Berkeley, CA.

Invited Speaker. “WiiScience.” with Terry Winograd. Innovative Learning Conference at Nueva School. Oct 21, 2011. Hillsborough, CA.

Invited Participant. William Drenttel, organizer. Winterhouse Second Symposium on Design Education and Social Change: Program Description. Symposium participant. Hotchkiss School, Aug 14-16, 2011. Lakeville, CT.

Invited Speaker. “Future or Alternatives in the role of Design in Exhibitions.” With Brett McFadden & Scott Thorpe. CCA Wattis Institute for Contemporary Arts’ Wider White Space Faculty Lecturer Series. Feb 3, 2010. San Francisco, CA.

Invited Speaker. Designing Implicit Interactions. Invited speaker for Device Design Day 2010, Aug 20, 2010. San Francisco, CA.

Invited panelist. “Design.” With Tara McPherson. (Moderator), Anne Balsamo, & Micahel Century. Online panel discussion for HASTAC, Jul 28, 2010.

Invited Speaker. “Reverse Engineering by Demonstration.” With Bjoern Hartmann. Presentation at Sketching in Hardware 2010. July 23-25, 2010. Los Angeles, CA.

Invited Speaker. “Thoughts on Physical Interaction Design.” CCA Graduate Lecture Series, Sep 23, 2008. San Francisco, CA.

Invited Speaker. “The Design of Implicit Interactions.” Stanford CS547 Seminar on People, Computers and Design. May 18, 2007. Stanford, CA.

Invited Speaker. “The Design of Implicit Interactions.” Special talk at MIT Media Lab Apr 10, 2007. Stanford, CA.

Invited Speaker. "The Design of Implicit Interactions." Seminar talk for Berkeley Expert System Technologies group. Nov 15, 2006. Berkeley, CA.

Invited Speaker. "The Emperor's New New Clothes: The Challenges of Designing Implicit Interactions." Cornell Information Science Colloquium. May 4, 2005. Ithaca, NY.

Invited presenter. "CardioCar: Embedded Assessment on the Go." Workshop on HCI challenges in Health Assessment, CHI 2005. Apr 2005, Portland, OR.

Invited panelist. "Can we learn anything about the process of UI design?" With Mountford, S Joy, organizer. Sally Grisedale, Jan-Christoph Zoels, Ramia Mazé, Monica Bueno, panelists. In Designing Interactive Systems (DIS 2002). Jun 25-28, 2002. London, UK.

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SERVICE

Associate Editor for ACM Transactions on Human Robot Interactions (2017-2025), previously Journal of Human Robot Interactions (2015 – 2017)

Advisory board for Open Source Hardware Association (2021 - present)

Advisory board for Quori 2.0 (2024 - present)

International Scientific Committee of the UKRI Trustworthy Autonomous Systems (TAS) Hub (2021 - present)

Active service in:

ACM AutoUI (Automotive User Interfaces and Interactive Vehicular Applications)

- 2024 General Conference Chair
- 2021, 2016, 2015 Program Committee
- 2020 Doctoral Colloquium Panelist
- 2019 Program Committee Co-chair
- 2017 Doctoral Colloquium Co-chair

ACM HRI (Human-Robot Interactions)

- 2026 Program Committee
- 2024 Program Co-Chair
- 2018-2020 Steering Committee
- 2022, 2021, 2018, 2016, 2015 Program Committee
- 2019, 2013, 2012 Video Program Co-chair

ACM DIS (Designing Interactive Systems)

- 2022-present Steering Committee Co-chair
- 2021 Conference Co-chair
- 2019 Doctoral Colloquium Chair

2016-present Steering Committee

2016 Technical Program Co-chair

2014 Papers Committee

ACM CHI (Conference on Human Factors in Computing Systems)

2021 Doctoral Colloquium Co-chair

2019, 2018 Subcommittee Chair for Papers and Notes, Understanding People

2017 Associate Chair for Papers and Notes

2016 Courses Co-Chair, Student Design Competition Jury

2014, 2012, 2011 Associate Chair for Papers and Notes

2007 Student Volunteer for Technical Program Committee

ACM UIST (User Interface Software and Technology)

2020 Doctoral Symposium Co-chair

2018 Awards Co-Chair

ACM TEI (Tangible Embodied and Embedded Interactions)

2016-present Steering Committee

2017 Graduate Student Consortium Co-chair

2015 General Conference Chair

ACM CSCW (Computer Supported Cooperative Work)

2017, 2016 Sponsorship Co-Chair

2016 Program Committee

2012 Associate Chair Papers Committee, Final Program Chair

ACM UBICOMP (Pervasive and Ubiquitous Computing)

2017 Posters Co-Chair

Inaugural member of the Steering Committee for North American Design Research Organization, 2016

ACM CHINESE CHI 2014 Program Committee

ACM NIME 2014 Performance Review Committee

Organizer, Symposium on the Nature of Wicked Problems, UC Berkeley College of Environmental Design, Oct 26, 2013

ACM SIGGRAPH (Computer Graphics and Interactive Techniques)

2010 Unified Jury Member

2009 Interactive Music Special Projects Coordinator

2005-07 Sketches Committee

ACM DUX 2007 (Designing User eXperiences) Student Volunteer Coordinator

NEEDS (National Engineering Education Delivery System) Premier Award for Excellence in Engineering Education, Member of judging panel, 2002-2003

Peer Reviewer for:

ACM CHI (Human-Computer Interactions)

ACM DIS (Designing Interactive Systems)

ACM HRI (Human Robot Interactions)

ACM CSCW (Computer Supported Cooperative Work)

ACM NIME (New Instruments for Musical Expression)

ACM UIST (User Interface Software and Technology)

Human-Computer Interaction (Journal)

IEEE ICRA (International Conference on Robotics and Automation)

International Journal of Design

IXDA Interaction Awards

Open Hardware Summit

NSF Human Robot Interactions Program

NSF National Robot Initiative

NSF CAREER

ASSOCIATIONS

Association of Computer Machinery

Institute of Electrical and Electronics Engineers

American Society of Mechanical Engineers