

Bilge Mutlu, PhD | Curriculum Vitae — February 2026

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Research Mission

To advance a design-led understanding of how robotic, AI, and interactive systems should behave in human environments; to develop tools and methods that help designers and engineers create meaningful human–technology interactions; and to enable the responsible integration of embodied AI into everyday life.

Appointments

ACADEMIC APPOINTMENTS

2025– Founding Director, *Institute for Design & Embodied AI (IDEA)* — *in development*

2021– Sheldon B. & Marianne S. Lubar Professor

2015–2021 Associate Professor

2009–2015 Assistant Professor

University of Wisconsin–Madison

Tenure Home: Department of Computer Sciences

Affiliate Appointments:

Wisconsin Institute for Discovery (WID), *Discovery Fellow*

Department of Industrial & Systems Engineering

Department of Psychology

McPherson Eye Research Institute (MERI)

VISITING ACADEMIC APPOINTMENTS

2023–2024 *Digital Futures Scholar in Residence*, KTH Department of Robotics, Perception, and Learning, Sweden

2016–2017 *Visiting Professor*, Johns Hopkins University, Malone Center for Engineering Healthcare — *concurrent appointment*

2016–2017 *Visiting Professor*, George Washington University, Department of Biomedical Engineering — *concurrent appointment*

2007–2008 *Research Intern*, Intelligent Robotics and Communication Laboratory, ATR International, Kyoto, Japan

PROFESSIONAL APPOINTMENTS

1999–2001 Industrial Designer, Arcelik Corporation, Design Group, Istanbul, Turkey

Education

2009 PhD, Human-Computer Interaction, School of Computer Science, Carnegie Mellon University

2004 MDes, Interaction Design, Fulbright Fellow, School of Design, Carnegie Mellon University

2003 MS, Product Design, Institute of Science and Technology, Istanbul Technical University, Istanbul, Turkey

1999 BID, Industrial Design, Department of Industrial Design, Middle East Technical University, Ankara, Turkey, *Summa Cum Laude*

Honors & Awards

HONORS, AWARDS & DISTINCTIONS

- 2025 *Excellence in Honors Thesis Advising Award*, L&S Honors Program, University of Wisconsin–Madison
- 2022 *Vilas Associates Competition*, University of Wisconsin–Madison
- 2021 *H.I. Romnes Faculty Fellowship*, University of Wisconsin–Madison
- Sheldon B. and Marianne S. Lubar Professorship, Department of Computer Sciences, University of Wisconsin–Madison
- 2020 *Provost's Early Career Award*, University of Wisconsin–Madison
- 2013 *Allen Newell Award for Research Excellence*, Carnegie Mellon University, Forlizzi, Kiesler, DiSalvo, Mutlu, Lee, Torrey; "Elucidation of the fundamental principles of human-robot interaction and its associated methods"
- 2012 NSF CAREER Award
- 2010 *World Technology Network Fellow Finalist*, WTN Award in I.T. Hardware
- 2002 *Fulbright Fellowship*, U.S. Department of State
- 1999 *Summa Cum Laude*, Dept. Industrial Design & School of Architecture, Middle East Technical University

PAPER AWARDS & NOMINATIONS

- 2025 *Honorable Mention* (Top 251 in 5020), ACM/SigCHI Human Factors in Computing (CHI 2025)
Kim, Sato, White, Ho, Lee, Hwang, & Mutlu: *Bridging Generations using AI-Supported Co-Creative Activities*
Sustainability Recognition, ACM/IEEE Human-Robot Interaction (HRI 2025)
Pelikan, Mutlu, & Reeves: *Making Sense of Public Space for Robot Design*
Best Technical Paper Award (Top 6 in 400), ACM/IEEE Human-Robot Interaction (HRI 2025)
Mahadevan, Lewis, Li, Mutlu, Tang, & Grossman: *"ImagineThat: Manipulating Images to Convey User Instructions to Robots"*
- 2024 *Pioneering Research Award Finalist*, IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2024)
Xu, Cagiltay, Michaelis, Sebo, & Mutlu: *Robots in Family Routines: Development of and Initial Insights from the Family-Robot Routines Inventory*
Honorable Mention (Top 150 in 4028), ACM/SigCHI Human Factors in Computing (CHI 2024)
Ho, Hubbard, & Mutlu: *"It's Not a Replacement:" Enabling Parent-Robot Collaboration to Support In-Home Learning Experiences of Young Children*
Best Design Paper Award (Top 6 in 352), ACM/IEEE Human-Robot Interaction (HRI 2024)
Koike, Wehner, & Mutlu: *Sprout: Designing Expressivity for Robots Using Fiber-Embedded Actuation*
- 2023 *UBICOMP 10-Year Impact Award*, ACM Pervasive and Ubiquitous Computing (UbiComp 2013)
Hoque, Courgeon, Martin, Mutlu, & Picard: *MACH: My Automated Conversation coach*
Best Systems Paper Award (Top 5 in 250), ACM/IEEE Human-Robot Interaction (HRI 2023)
Schoen, Sullivan, Zhang, Rakita, & Mutlu: *Lively: Enabling Multimodal, Lifelike, and Extensible Real-time Robot Motion*
- 2022 *Meritorious Poster Award* (Top 59 in 1394), American Speech–Language–Hearing Association (ASHA 2017)
Clough, Tanguay, Mutlu, Turkstra, & Duff: *Using Bag-of-Words and Hierarchical Clustering to Explore Differences in Emoji Perception after Traumatic Brain Injury*
Best Short Paper (Top 2 in 102), ACM Interaction Design and Children (IDC '22)
Cagiltay, Michaelis, Sebo, & Mutlu: *Exploring Children's Preferences for Taking Care of a Social Robot*

	<i>Honorable Mention</i> (Top 131 in 2597), ACM/SigCHI Human Factors in Computing (CHI 2022) Lee, Cagiltay, & Mutlu: <i>The Unboxing Experience: Exploration and Design of Initial Interactions Between Children and Social Robots</i>
2020	<i>Honorable Mention</i> (Top 12 in 279), ACM/IEEE Human-Robot Interaction (HRI 2020) Praveena, Rakita, Mutlu, & Gleicher: <i>Supporting Perception of Weight through Motion-induced Sensory Conflicts in Robot Teleoperation</i>
2019	<i>First Runner-Up</i> , IEEE Transactions on Automation Science and Engineering Googol Best New Application Paper Award of 2019 Pearce, Mutlu, Shah, & Radwin: <i>Optimizing Makespan and Ergonomics in Integrating Collaborative Robots into Manufacturing Processes</i>
	<i>Honorable Mention Award</i> (Top 7 in 142), ACM Interaction Design and Children (IDC 2019) Michaelis & Mutlu: <i>Supporting Interest in Science Learning with a Social Robot</i>
2018	<i>Best Paper Award</i> (Top 3 in 375), ACM Symposium on User Interface Software and Technology (UIST 2018) Porfirio, Sauppé, Albarghouti, & Mutlu: <i>Authoring and Verifying Human-Robot Interactions</i>
	<i>Best Paper Award</i> (Top 4 in 206), ACM/IEEE Human-Robot Interaction (HRI 2018) Rakita, Mutlu, & Gleicher: <i>An Autonomous Dynamic Camera Method for Effective Remote Teleoperation</i>
2017	<i>Meritorious Poster Award</i> (Top 55 in 1895), American Speech–Language–Hearing Association (ASHA 2017) Beadle, Turkstra, Mutlu, & Duff: <i>Effects of Traumatic Brain Injury on Social Network Size, Life Satisfaction & Loneliness</i>
	<i>Honorable Mention</i> (Top 97 in 2424), ACM/SigCHI Human Factors in Computing (CHI 2017) Andrist, Mutlu, & Gleicher: <i>Looking Coordinated: Bidirectional Gaze Mechanisms for Collaborative Interaction with Virtual Characters</i>
2016	<i>Best Paper Award Nominee</i> (Top 10 in 306), IEEE Human-Robot Communication (RO-MAN 2016) Bodden, Rakita, Mutlu, & Gleicher: <i>Evaluating Intent-Expressive Robot Arm Motion</i>
2015	<i>Meritorious Poster Award</i> (Top 54 in 1573), American Speech–Language–Hearing Association (ASHA 2015) Duff, Rigon, Mutlu, & Turkstra: <i>Effects of Emotion Type & Intensity on Impairments in Facial Emotion Recognition Following TBI</i>
	<i>Best Paper Award</i> (Top 21 in 2150), ACM/SigCHI Human Factors in Computing (CHI 2015) Sauppé & Mutlu: <i>The Social Impact of a Robot Co-Worker in Industrial Settings</i>
	<i>Honorable Mention</i> (Top 119 in 2150), ACM/SigCHI Human Factors in Computing (CHI 2015) Andrist, Mutlu, & Tapus: <i>Look Like Me: Matching Robot Personality via Gaze to Increase Motivation</i>
2014	<i>Best Paper Award Nominee</i> (Top 5 in 132), ACM/IEEE Human-Robot Interaction (HRI 2014) Andrist, Tan, Gleicher, & Mutlu: <i>Conversational Gaze Aversion for Humanlike Robots</i>
2013	<i>Best Paper Award</i> (Top 5 in 392), ACM Pervasive and Ubiquitous Computing (UbiComp 2013) Hoque, Courgeon, Martin, Mutlu, & Picard: <i>MACH: My Automated Conversation coach</i>
	<i>Highly Commended Paper</i> (Top 3 in 61), Intelligent Virtual Agents (IVA 2013) Andrist, Mutlu, & Gleicher: <i>Conversational Gaze Aversion for Virtual Agents</i>
	<i>Best Paper Award Runner-Up</i> (Top 5 in 183), Robotics: Science and Systems (RSS 2013) Huang & Mutlu: <i>Modeling and Evaluating Narrative Gestures for Humanlike Robots</i>
2011	<i>Best Paper Award</i> (Top 3 in 149), ACM/IEEE Human-Robot Interaction (HRI 2011) Mumm & Mutlu: <i>Human-Robot Proxemics: Physical and Psychological Distancing in Human-Robot Interaction</i>
2009	<i>Best Paper Award</i> (Top 1 in 120), ACM/IEEE Human-Robot Interaction (HRI 2009) Mutlu, Shiwa, Kanda, Ishiguro, & Hagita: <i>Footing in Human-Robot Conversations: How Robots Might Shape Participant Roles Using Gaze Cues</i>
2008	<i>Best Paper Award</i> (Top 1 in 134), ACM/IEEE Human-Robot Interaction (HRI 2008) Mutlu & Forlizzi: <i>Robots in Organizations: Workflow, Social, and Environmental Factors in Human-Robot Interaction</i>

Research Grants & Gifts

Total externally funded research: approx. \$30M federal + \$2M industry (PI/co-PI).

FEDERAL GRANTS

- 2024–2029 NSF EEC-2330040 — *Center: NSF Engineering Research Center for Human AugmentatioN via Dexterity (HAND)*; **Mutlu** (UW-Madison PI); \$603,257 (Center Total: \$26,000,000)
- 2023–2027 NSF IIS-2312354 — *Collaborative Research: HCC: Medium: Designing Social Companion Robots for Long-term Interaction*; **Mutlu** (PI), Sebo (PI), Michaelis (PI); \$1,200,000
- 2023–2027 NSF IIS-2247381 — *SaTC: CORE: Medium: Designing Privacy-Aware Social Companion Robots*; Fawaz (PI), **Mutlu**, Kirkorian; \$1,200,000
- 2022–2027 NSF DGE-2152163 — *Integrating Robots into the Future of Work*; **Mutlu** (PI), Niedenthal, Radwin, Zinn, Jacobs; \$3,000,000
- 2022–2025 NSF IIS-2202803 — *HCC: Small: PATHWiSE - Supporting Teacher Authoring of Robot-Assisted Homework*; Michaelis (PI), **Mutlu** (PI); \$600,000
- 2022–2027 NSF DUE-2201723 — *Trans-modal Analysis: A Mathematical and Computational Framework for Equity Assessment of Multi-modal STEM Learning Processes*; Shaffer (PI), Cai, **Mutlu**; \$2,499,974
- 2021–2026 NHLBI R61HL151870-01A1 — *Using Smart Displays to Implement an Evidence-Based eHealth System for Older Adults with Multiple Chronic Conditions*; Gustafson (PI), Mares (PI), Brown, Kim, **Mutlu**, Quanbeck, Shah; \$3,858,326
- 2021–2024 NSF CMMI-2026478 — *FW-HTF-RM: Human-Robot Collaboration for Manual Work*; Radwin (PI), **Mutlu**, Li, Smeeding, Jacobs; \$1,500,000
- 2020–2025 AHRQ R18HS026853 — *Using Smart Devices to Implement an Evidence-based eHealth System for Older Adults*; Gustafson (PI), Mares, **Mutlu**, Mahoney; \$1,987,467
- 2019–2023 NSF IIS-1925043 — *NRI: INT: COLLAB: Program Verification and Synthesis for Collaborative Robots*; **Mutlu** (PI), Albarghouthi, Sauppé; \$958,887
- 2019–2023 NIH 2R01HD071089-06A1 — *Designing Computer-Mediated Communication Supports to Improve Social Participation After Traumatic Brain Injury*; **Mutlu** (Co-PI), Duff (Co-PI), Turkstra; \$948,801
- 2019–2022 NASA 80NSSC19Mo124 P00001 — *Effective Human-Robot Teaming to Advance Aviation Manufacturing*; **Mutlu** (PI), Gleicher, Zinn, Radwin, Gardner (Boeing), Cook (Boeing), Reid (Boeing); \$2,997,761
- 2019–2020 NSF CMMI-1928425 — *FW-HTF-P: Human-Robot Collaboration for Enhancing Work Capabilities*; Radwin (PI), **Mutlu**, Li; \$149,999
- 2019–2020 NSF DRL-1906854 — *STEMMates: Designing Companion Robots with Socially Situated Interest Scaffolds for Informal, In-home STEM Learning*; **Mutlu** (PI); \$300,000
- 2019–2020 DOJ 2018-R2-CX-0025 — *Harnessing Existing Technologies to Mitigate Driving Distraction Among Law Enforcement Officers*; Noyce (PI), Lee, **Mutlu**; \$464,621
- 2018–2024 NSF IIS-1830242 — *NRI: FND: Communicating Physical Interactions*; Gleicher (PI), **Mutlu**, Zinn; \$749,986
- 2018–2023 NSF IIS-1822872 — *ROBO-VI: A Virtual-Internship-Based Hybrid Learning Technology to Prepare Traditional and Non-Traditional Students to Work with Collaborative Robots*; **Mutlu** (PI), Ruis, Shaffer; \$499,123
- 2016–2018 NSF IIS-1651129 — *EAGER: Representations and Methods for Verifiable Human-Robot Interactions*; **Mutlu** (PI), Albarghouthi, Sauppé; \$299,877
- 2013–2017 DOT DTRT13-G-UTC47 — *Human Factors for Crash Imminent Safety in Intelligent Vehicles*; Lee (PI), **Mutlu**; \$299,131
- 2014–2015 NSF CMMI-1426824 — *NRI: Models & Instruments for Integrating Effective Human-Robot Teams into Manufacturing*; **Mutlu** (PI); \$589,959
- 2014–2015 NASA NNX14AL45H — *Automated Task Monitoring, Feedback and Training for Critical Missions*; **Mutlu** (PI); \$272,000
- 2012–2017 NSF CISE-IIS-1227530 — *DIP: BioSourcing: A Crowdsourcing Approach to Increasing Public Understanding in Computational Biosciences*; Squire (PI), Shapiro, **Mutlu**, Ferris; \$1,349,989

- 2012–2017 NIH 1R01HD071089-01A1 — *Social Perception & social communication in adults with traumatic brain injury*; Turkstra (PI), **Mutlu**, Duff; \$2,787,779
- 2012–2015 NASA NNX12AN14H — *Effective Human-Robot Collaborative Work for Critical Missions*; **Mutlu** (PI); \$264,000
- NSF CISE-IIS-1208632 — *NRI-Small: Perceptually Inspired Dynamics for Robot Arm Motion*; Gleicher (PI), **Mutlu**, Ferrier; \$799,942
- 2012–2017 NSF CISE-IIS-1149970 — *CAREER: Designing Socially Adept Robots*; **Mutlu** (PI); \$498,245
- NSF CISE-IIS-1117652 — *Embodied Mediated Communication in Collaborative Work*; **Mutlu** (PI), Takayama; \$487,810
- 2010–2013 NSF CISE-IIS-1017952 — *Designing Effective Gaze Mechanisms for Cross-Modal Embodied Agents*; **Mutlu** (PI), Gleicher; \$499,050

CORPORATE/FOUNDATION GRANTS/GIFTS

- 2005–2007 Honda Research Institute—US — *Embodied Learning For AI-Mediated Cultural Exchange (EMBRACE)*; **Mutlu** (PI); \$564,756
- 2023 Google, Inc., Google Award for Inclusion Research — *Supporting Social Participation for Older Adults through Robotic Telepresence*; **Mutlu** (PI); \$60,000
- 2023–2024 UW–Madison OVCRG — *Assistive Technologies to Support Skill Development in Adults with Down Syndrome*; Sterling (PI), **Mutlu**; \$49,078
- 2022–2023 UW–Madison Discovery2Product PRIME Grant — *Assessing How Assistive Programming Tools Can Facilitate the Integration of Collaborative Robots into Manufacturing*; **Mutlu** (PI); \$48,841
- 2021–2024 McDonnell Foundation Award — *Faces in the Wild: Understanding Real-World Communication of Emotions* Niedenthal (PI), **Mutlu**, Ward, Li; \$250,000
- 2016–2027 Toyota Corporation CSRC-042 — *Mechanisms for Enhancing Human-Automation Coordination and Situation Awareness in Autonomous Driving (Phase 2)*; Lee (PI), **Mutlu**; \$254,879
- 2015–2016 Toyota Corporation CSRC-042 — *Mechanisms for Enhancing Human-Automation Coordination and Situation Awareness in Autonomous Driving (Phase 1)*; Lee (PI), **Mutlu**; \$502,718
- 2013 Google, Inc., Glass Awards — *Improving Everyday Learning Using Glass* **Mutlu** (PI); \$27,860
- 2013 Fujitsu Laboratories Ltd., Japan — *Designing a Robotic Motivational Coach*; **Mutlu** (PI); \$50,000
- 2012–2013 UW–Madison OVCRG — *Designing Effective Computer-Based Protocols for Early Detection of Autism*; **Mutlu** (PI); \$39,729
- 2011–2012 UW–Madison OVCRG — *Educational Brain-Computer Interfaces*; **Mutlu** (PI); \$34,970
- 2010 Google, Inc., Faculty Research Awards — *Designing Adaptive Educational Interfaces*; **Mutlu** (PI); \$40,000
- 2009–2012 Waltham Foundation, U.K. — *Does Interaction with Animals Help us in Interpreting Human Social Behavior?* **Mutlu** (PI), Takayama, Kiesler, Kanda; \$14,100
- 2009 Mitsubishi Heavy Industries, Ltd., Japan — *Wakamaru Humanlike Robot Equipment Loan*; **Mutlu** (PI), Kiesler
- 2006–2007 Ford Motor Company — *Posture Recognition for In-Car Seating*; **Mutlu** (PI), Krause; \$2,000

Selected Invited Talks

Selected high-profile invited seminars, lectures, and keynotes.

- 2025 *Design Seminar*, Apple Studio, Apple Inc.
"Design Spaces, Places, and Tools for Human-Robot Interaction"
- 2025 *Department Seminar*, Faculty of Architecture, Middle East Technical University
"Designing Robots as Products, Tools, Platforms"
- 2024 *ME512 Seminar*, Department of Mechanical Engineering, Northwestern University
"Enabling Everyday Use of Robots as Products, Tools, Platforms"
- 2024 *Department Seminar*, Department of Information Technology, Uppsala University

	"Enabling Everyday Use of Robots as Products, Tools, Platforms"
2023	<i>Distinguished Lecture</i> , Digital Futures, KTH Royal Institute of Technology "Enabling Everyday Use of Robots as Products, Tools, Platforms"
2022	<i>Keynote Speaker</i> , Furhat Conference on Social Robotics "Taking Social Robots Out of the Lab and Onto the Road"
2020	<i>Distinguished Lecture</i> , Department of Biomedical Engineering, George Washington University "Designing Robots for Human Interaction"
2018	<i>Distinguished Lecture</i> , Department of Computer Science, Northwestern University "Designing Robots for Human Interaction"
2018	<i>Invited Talk</i> , Koç University (as part of the Istanbul Design Biennial Program) "Designing Whole Interactions for Robotic Products"
2017	<i>Conference Keynote Speaker</i> , International Conference on Intelligent Virtual Agents (IVA) "Virtual and Physical: Two Frames of Mind"

Publications

See my [Google Scholar](#), [Scopus](#), [ResearchGate](#), [DLPB](#), [ACM](#) profiles for a full list of publications. For brevity, only journal and selective, full-length conference papers are included below.

JOURNAL ARTICLES (76)

- 2026 Jacobs, L., **Mutlu, B.**, Radwin, R., & Smeeding, T. [Cobots as Workforce Partners: Overcoming Barriers Through Policy Opportunities](#). *Journal of Policy Analysis and Management* 45 (1), e70083.
- 2025 Landucci, G., Gustafson Sr, D. H., Mares, M. L., Pe-Romashko, K., Curtin, J. J., Hu, Y., ... & **Mutlu, B.** [Using Smart Displays to Implement an eHealth System for Older Adults With Multiple Chronic Conditions: Randomized Controlled Trial](#). *JMIR Aging*, 8, e75991.
- Sullivan, D., White, N. T., Hu, Y., DW Clifton, J., & **Mutlu, B.** [Robot Primals: Exploring World Beliefs as a Source for Robot Behavior Design](#). *ACM Transactions on Human-Robot Interaction*, 15(1), 1–23.
- Konstant, A., White, N., **Mutlu, B.**, & Radwin, R. G. [Ergonomics analysis for a simulation approach to human-robot collaborative task allocation](#). *IIE Transactions on Occupational Ergonomics and Human Factors*, 1–11.
- Wright, L. L., Vegesna, P., Michaelis, J. E., **Mutlu, B.**, & Sebo, S. [Robotic reading companions can mitigate oral reading anxiety in children](#). *Science Robotics*, 10(106), eadu5771.
- Michaelis, J. E., & **Mutlu, B.** [How can educational robots enhance family life? Through careful integration](#). *Science Robotics*, 10(106), eadu6123.
- Johnson, H., & **Mutlu, B.** [Accessible Technology for Adults with Down Syndrome: A Scoping Review](#). *ACM Transactions on Accessible Computing*, 18(3), 1–57.
- Zhang, S., Li, J., Cagiltay, B., Kirkorian, H., **Mutlu, B.**, & Fawaz, K. [A qualitative exploration of parents and their children's uses and gratifications of ChatGPT](#). *Family Relations*, 74(3), 1056–1071.
- Konstant, A., Orr, N., Hagenow, M., Gundrum, I., Hu, Y. H., **Mutlu, B.**, ... & Radwin, R. G. [Human–Robot Collaboration With a Corrective Shared Controlled Robot in a Sanding Task](#). *Human Factors*, 67(3), 246–263.
- 2024 Wohltjen, S., Colón, Y. I., Zhu, Z., Miller, K., Huang, W. C., **Mutlu, B.**, ... & Niedenthal, P. M. [Uniting theory and data: the promise and challenge of creating an honest model of facial expression](#). *Cognition and Emotion*, 1–15.
- Toma, C. L., Hwang, J., Kakonge, L., Morrow, E. L., Turkstra, L. S., **Mutlu, B.**, & Duff, M. C. [Does Facebook use provide social benefits to adults with traumatic brain injury?](#) *Cyberpsychology, Behavior, and Social Networking*, 27(3), 214–220.
- Ramesh, B., Konstant, A., Praveena, P., Senft, E., Gleicher, M., **Mutlu, B.**, ... & Radwin, R. G. [Manually acquiring targets from](#)

- multiple viewpoints using video feedback. *Human Factors*, 66(2), 470–489.
- Liu, L., Schoen, A. J., Henrichs, C., Li, J., **Mutlu, B.**, Zhang, Y., & Radwin, R. G. Human robot collaboration for enhancing work activities. *Human Factors*, 66(1), 158–179.
- 2023
- Clough, S., Tanguay, A. F., **Mutlu, B.**, Turkstra, L. S., & Duff, M. C. How do Individuals With and Without Traumatic Brain Injury Interpret Emoji? Similarities and Differences in Perceived Valence, Arousal, and Emotion Representation. *Journal of Nonverbal Behavior*, 47(4), 489–511.
- Hagenow, M., Senft, E., Orr, N., Radwin, R., Gleicher, M., **Mutlu, B.**, Posey, D., & Zinn, M. Coordinated Multi-Robot Shared Autonomy Based on Scheduling and Demonstrations. *IEEE Robotics and Automation Letters*, 8(12), 8335–8342.
- Turkstra, L. S., Hosseini-Moghaddam, S., **Mutlu, B.**, & Duff, M. C. Facial affect recognition in context in adults with and without TBI. *Frontiers in Psychology*, 14, 1111686.
- Clough, S., Morrow, E., **Mutlu, B.**, Turkstra, L., & Duff, M. C. Emotion recognition of faces and emoji in individuals with moderate-severe traumatic brain injury. *Brain Injury*, 1–15.
- 2022
- Zhao, F., Lim, H., Morrow, E. L., Turkstra, L. S., Duff, M. C., & **Mutlu, B.**. Designing evidence-based support aids for social media access for individuals with moderate-severe traumatic brain injury: A preliminary acceptability study. *Frontiers in Digital Health*, 4, 991814.
- Ahmadi, R., Lim, H., **Mutlu, B.**, Duff, M., Toma, C., & Turkstra, L. Facebook Experiences of Users With Traumatic Brain Injury: A Think-Aloud Study. *JMIR Rehabilitation and Assistive Technologies*, 9(4), e39984.
- Henry, K. E., Kornfield, R., Sridharan, A., Linton, R. C., Groh, C., Wang, T., Wu, A., **Mutlu, B.**, & Saria, S. Human-machine teaming is key to AI adoption: clinicians' experiences with a deployed machine learning system. *NPJ Digital Medicine*, 5(1), 1–6.
- Ramesh, B., Konstant, A., Praveena, P., Senft, E., Gleicher, M., **Mutlu, B.**, ... & Radwin, R. G. Manually Acquiring Targets From Multiple Viewpoints Using Video Feedback. *Human Factors*.
- Gustafson, D. H., Mares, M. L., Johnston, D. C., Landucci, G., Pe-Romashko, K., Vjorn, O. J., ... & **Mutlu, B.**. Using Smart Displays to Implement an eHealth System for Older Adults With Multiple Chronic Conditions: Protocol for a Randomized Controlled Trial. *JMIR Research Protocols*, 11(5), e37522.
- Zhao, F., Wood, A., **Mutlu, B.**, & Niedenthal, P. Faces synchronize when communication through spoken language is prevented. *Emotion*.
- 2021
- Kornfield, R., Rae, I., & **Mutlu, B.**. So close and yet so far: How embodiment shapes the effects of distance in remote collaboration. *Communication Studies*.
- Bhat, P., Senft, E., Zinn, M., Gleicher, M., **Mutlu, B.**, Cook, R., & Radwin, R. G. Assessing limited visibility feedback for overhead manufacturing assembly tasks. *Applied Ergonomics*, 97, 103531.
- Hagenow, M., Senft, E., Radwin, R., Gleicher, M., **Mutlu, B.**, & Zinn, M. Informing Real-time Corrections in Corrective Shared Autonomy Through Expert Demonstrations. *IEEE Robotics and Automation Letters*, 6(4), 6442–6449.
- Senft, E., Hagenow, M., Radwin, R., Zinn, M., Gleicher, M., & **Mutlu, B.**. Situated Live Programming for Human-Robot Collaboration. *Frontiers in Robotics & AI*.
- Morrow, E. L., Zhao, F., Turkstra, L., Toma, C., **Mutlu, B.**, & Duff, M. C. Computer-mediated communication in adults with and without moderate-to-severe traumatic brain injury: survey of social media use. *JMIR Rehabilitation and Assistive Technologies*, 8(3), e26586.
- Rakita, D., **Mutlu, B.**, & Gleicher, M. Single-query Path Planning Using Sample-efficient Probability Informed Trees. *IEEE Robotics and Automation Letters*, 6(3), 4624–4631.
- Hagenow, M., Senft, E., Radwin, R., Gleicher, M., **Mutlu, B.**, & Zinn, M. Corrective Shared Autonomy for Addressing Task Variability. *IEEE Robotics and Automation Letters*, 6(2), 3720–3727.
- 2020
- Mutlu, B.**. Virtual and Physical: Two Frames of Mind. *iScience*, 24(2), 101965.
- Rakita, D., **Mutlu, B.**, & Gleicher, M. An Analysis of RelaxedIK: An Optimization-based Framework for Generating Accurate

- and Feasible Robot Arm Motions. *Autonomous Robots*, 44(7), 1341–1358.
- Turkstra, L. S., **Mutlu, B.**, Ryan, C. W., Despins-Stafslien, E. E., Richmond, E. K., Hosokawa, E., & Duff, M. Sex and gender differences in emotion recognition and Theory of Mind after TBI: A narrative review and directions for future research. *Frontiers in Neurology*, 11, 59.
- 2019
- Rakita, D., **Mutlu, B.**, Gleicher, M., & Hiatt, L. M. Shared control-based bimanual robot manipulation. *Science Robotics*, 4(30), eaaw0955.
- Flynn, M. A., Rigon, A., Kornfield, R., **Mutlu, B.**, Duff, M. C., & Turkstra, L. S. Characterizing computer-mediated communication, friendship, and social participation in adults with traumatic brain injury. *Brain Injury*, 1–8.
- Rigon, A., Voss, M. W., Turkstra, L. S., **Mutlu, B.**, & Duff, M. C. Functional neural correlates of facial affect recognition impairment following TBI. *Brain Imaging and Behavior*, 13(2), 526–540.
- Byom, L., Duff, M., **Mutlu, B.**, & Turkstra, L. Facial emotion recognition of older adults with traumatic brain injury. *Brain Injury*, 33(3), 322–332.
- Deng, E., **Mutlu, B.**, & Mataric, M. J. Embodiment in Socially Interactive Robots. *Foundations and Trends in Robotics*, 7(4), 251–356.
- 2018
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- Paxton, C., Jonathan, F., Hundt, H., **Mutlu, B.**, & Hager, G. D. Evaluating Methods for End-User Creation of Robot Task Plans. *Proceedings of the IEEE/RAS International Conference on Intelligent Robots (IROS 2018)*.
- Rakita, D., **Mutlu, B.**, & Gleicher, M. RelaxedIK: Real-time Synthesis of Accurate and Feasible Robot Arm Motion. *Robotics: Science and Systems (RSS 2018)*.
- Rakita, D., **Mutlu, B.**, & Gleicher, M. An Autonomous Dynamic Camera Method for Effective Remote Teleoperation. *Proceedings of the 2018 ACM/IEEE International Conference on Human-Robot Interaction (HRI 2018)*. Best Paper Award: Technical Advances in HRI (Top 4 in 206 submissions).
- Rakita, D., **Mutlu, B.**, & Gleicher, M. Shared Dynamic Curves: A Shared-Control Telemanipulation Method for Motor Task Training. *Proceedings of the 2018 ACM/IEEE International Conference on Human-Robot Interaction (HRI 2018)*.
- 2017
- Liu, O. D., Rakita, D., **Mutlu, B.**, & Gleicher, M. Understanding Human-Robot Interaction in Virtual Reality. *Proceedings of the 26th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2017), Lisbon, Portugal*.
- Pejsa, J., Gleicher, M., & **Mutlu, B.**. Who, Me? How Virtual Agents Can Shape Conversational Footing in Virtual Reality. *Proceedings of the International Conference on Intelligent Virtual Agents (IVA 2017), Stockholm, Sweden*.
- Michaelis, J., & **Mutlu, B.**. Someone to Read with: Design of and Experiences with an In-Home Learning Companion Robot for Reading. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2017), Denver, CO*.
- Andrist, D., Gleicher, M., & **Mutlu, B.**. Looking Coordinated: Bidirectional Gaze Mechanisms for Collaborative Interaction with Virtual Characters. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2017), Denver, CO*. Honorable Mention (Top 97 in 2424 submissions).
- Choi, M., Kornfield, R., Takayama, L., & **Mutlu, B.**. Movement Matters: Effects of Motion and Mimicry on Perception of Similarity and Closeness in Robot-Mediated Communication. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2017), Denver, CO*.
- Rakita, D., **Mutlu, B.**, & Gleicher, M. A Motion Retargeting Method for Effective Mimicry-based Teleoperation of Robot Arms. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2017), Vienna, Austria*.
- 2016
- Rakita, D., **Mutlu, B.**, & Gleicher, M. Motion synopsis for robot arm trajectories. *Proceedings of the IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2016), New York City, NY*.
- Bodden, C., Rakita, D., **Mutlu, B.**, & Gleicher, M. Evaluating intent-expressive robot arm motion. *Proceedings of the IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2016), New York City, NY*.
- Huang, C.-M., & **Mutlu, B.**. Anticipatory Robot Control for Efficient Human-Robot Collaboration. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2016), Christchurch, New Zealand*.
- Huang, C.-M., **Mutlu, B.**, & Cakmak, M. Adaptive Coordination Strategies for Human-Robot Handovers. *Proceedings of Robotics: Science and Systems (RSS 2015)*.
- Sauppé, A., & **Mutlu, B.**. The Social Impact of a Robot Co-Worker in Industrial Settings. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2015), Seoul, South Korea*. Best Paper Award (Top 21 in 2150 submissions).

- Johnson, S., Rae, I., **Mutlu, B.**, & Takayama, L. Can You See Me Now? How Field of View Affects Collaboration in Robotic Telepresence. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2015)*, Seoul, South Korea.
- Andrist, S., **Mutlu, B.**, & Tapus, A. Look Like Me: Matching Robot Personality via Gaze to Increase Motivation. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2015)*, Seoul, South Korea. Honorable Mention (Top 119 in 2150 submissions).
- Szafir, D., **Mutlu, B.**, & Fong, T. Designing Mechanisms to Communicate Directionality in Flying Robots. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2015)*, Portland, OR.
- Andrist, S., Ziadee, M., Boukaram, H.-A., Sakr, M., & **Mutlu, B.** Effects of Culture on the Credibility of Robot Speech: A Comparison between English and Arabic. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2015)*, Portland, OR.
- Sauppé, A., Szafir, D., Huang, C.-M., & **Mutlu, B.** From 9 to 90: Engaging Learners of All Ages. *Proceedings of the 46th ACM Technical Symposium on Computer Science Education (SIGCSE 2015)*, Kansas City, MO.
- Johnson, S., Gibson, M., & **Mutlu, B.** Handheld or Handsfree?: Remote Collaboration via Lightweight Head-Mounted Displays and Handheld Devices. *Proceedings of the ACM Conference on Computer-Supported Collaborative Work and Social Computing (CSCW 2015)*, Vancouver, BC, Canada.
- Ruhland, K., Andrist, S., Peters, C., Badler, J., Badler, N., Gleicher, M., **Mutlu, B.**, & McDonnell, R. Look me in the eyes: A survey of eye and gaze animation for virtual agents and artificial systems. *EG 2014, STAR (State of The Art Report)*.
- Sauppé, A., & **Mutlu, B.** Effective Task Training Strategies for Instructional Robots. *Proceedings of Robotics: Science and Systems (RSS 2014)*.
- Sauppé, A., & **Mutlu, B.** Design Patterns for Exploring and Prototyping Human-Robot Interactions. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2014)*, Toronto, ON, Canada.
- Rae, I., **Mutlu, B.**, & Takayama, L. Bodies in Motion: Mobility, Presence, and Task Awareness in Telepresence. *Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI 2014)*, Toronto, ON, Canada.
- Andrist, S., Tan, X. Z., Gleicher, M., & **Mutlu, B.** Conversational Gaze Aversion for Humanlike Robots. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2014)*, Bielefeld, Germany. Best Paper Award Nominee (Top 5 in 132 submissions).
- Huang, C.-M., & **Mutlu, B.** Learning-Based Modeling of Multimodal Behaviors for Humanlike Robots. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2014)*, Bielefeld, Germany.
- Szafir, D., **Mutlu, B.**, & Fong, T. Communication of Intent in Assistive Free Flyers. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2014)*, Bielefeld, Germany.
- Sauppé, A., & **Mutlu, B.** Robot Deictics: How Gesture and Context Shape Referential Communication. *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2014)*, Bielefeld, Germany.
- Sauppé, A., & **Mutlu, B.** How Social Cues Shape Task Coordination and Communication. *Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2014)*, Maryland, MD.
- Miller, S., **Mutlu, B.**, & Lee, J. D. Artifact Usage, Context, and Privacy Management in Logging and Tracking Personal Health Information in Older Adults. *Proceedings of the 2013 International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2013)*.
- Hoque, E., Courgeon, M., Martin, J.-C., **Mutlu, B.**, Picard, R. MACH: My Automated Conversation coach. *Proceedings of the 12th ACM International Joint Conference on Pervasive and Ubiquitous Computing (Ubicomp '13)*, Zurich, Switzerland. Best Paper Award (Top 5 in 392 submissions).
- Andrist, S., **Mutlu, B.**, & Gleicher, M. Conversational Gaze Aversion for Virtual Agents. *Proceedings of Intelligent Virtual Agents (IVA 2013)*, Edinburgh, UK. Highly Commended Paper Award (Top 3 in 61 submissions).
- Huang, C.-M., & **Mutlu, B.** Modeling and Evaluating Narrative Gestures for Humanlike Robots. *Proceedings of Robotics: Science and Systems Conference (RSS 2013)*, Berlin, Germany. Best Paper Award Runner-Up (Top 5 in 183 submissions).

- Szafir, D., & **Mutlu, B.** ARTFuL: Adaptive Review Technology for Flipped Learning. *Proceedings of the 2013 ACM annual conference on Human Factors in Computing Systems (CHI 2013), Paris, France*.
- Rae, I., Takayama, L., & **Mutlu, B.** In-body Experiences: Embodiment, Control, and Trust in Embodied Mediated Communication. *Proceedings of the 2013 ACM annual conference on Human Factors in Computing Systems (CHI 2013), Paris, France*.
- Andrist, S., Spannan, E., & **Mutlu, B.** Rhetorical Robots: Making Robots More Effective Speakers Using Linguistic Cues of Expertise. *Proceedings of the 8th ACM/IEEE Conference on Human-Robot Interaction (HRI 2013), Tokyo, Japan*.
- Rae, I., Takayama, L., & **Mutlu, B.** The Influence of Height on Robotic Communication Products. *Proceedings of the 8th ACM/IEEE Conference on Human-Robot Interaction (HRI 2013), Tokyo, Japan*.
- 2012
- Terrell, A., & **Mutlu, B.** A Regression-based Approach to Modeling Addressee Backchannels. *Proceedings of the 13th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2012), Seoul, South Korea*.
- Szafir, D., & **Mutlu, B.** Pay Attention! Designing Adaptive Agents that Monitor and Improve User Engagement. *Proceedings of the 30th ACM/SIGCHI Conference on Human Factors in Computing (CHI 2012), Austin, TX*.
- Rae, I., Takayama, L., & **Mutlu, B.** One of the Gang: Supporting In-group Behavior for Embodied Mediated Communication. *Proceedings of the 30th ACM/SIGCHI Conference on Human Factors in Computing (CHI 2012), Austin, TX*.
- Andrist, S., Pejsa, T., **Mutlu, B.**, Gleicher, M. Designing Effective Gaze Mechanisms for Virtual Agents. *Proceedings of the 30th ACM/SIGCHI Conference on Human Factors in Computing (CHI 2012), Austin, TX*.
- Huang, C.-M., & **Mutlu, B.** Robot Behavior Toolkit: Generating Effective Social Behaviors for Robots. *Proceedings of the 7th ACM/IEEE Conference on Human-Robot Interaction (HRI 2012), Boston, MA*.
- Chidambaram, V., Chiang, Y.-H., & **Mutlu, B.** Designing Persuasive Robots: How Robots Might Persuade People Using Vocal and Nonverbal Cues. *Proceedings of the 7th ACM/IEEE Conference on Human-Robot Interaction (HRI 2012), Boston, MA*.
- Khan, F., Zhu, J., & **Mutlu, B.** How Do Humans Teach: On Curriculum Learning and Teaching Dimension. *Proceedings of Advances in Neural Information Processing Systems (NIPS 2011), Granada, Spain*.
- Mumm, J., & **Mutlu, B.** Human-Robot Proxemics: Physical and Psychological Distancing in Human-Robot Interaction. *Proceedings of the 6th ACM/IEEE Conference on Human-Robot Interaction (HRI 2011), Lausanne, Switzerland*. Best Paper Award (Top 3 in 149 submissions).
- 2009
- Mutlu, B.**, Shiwa, T., Kanda, T., Ishiguro, H., & Hagita, N. Footing in Human-Robot Conversations: How Robots Might Shape Participant Roles Using Gaze Cues. *Proceedings of the 4th ACM/IEEE Conference on Human-Robot Interaction (HRI 2009), San Diego, CA*. Best Paper Award (1 in 120 submissions).
- Mutlu, B.**, Yamaoka, F., Kanda, T., Ishiguro, H., & Hagita, N. Nonverbal Leakage in Robots: Communication of Intentions through Seemingly Unintentional Behavior. *Proceedings of the 4th ACM/IEEE Conference on Human-Robot Interaction (HRI 2009), San Diego, CA*.
- 2008
- Mutlu, B.**, & Forlizzi, J. Robots in Organizations: Workflow, Social, and Environmental Factors in Human-Robot Interaction. *Proceedings of the 3rd ACM/IEEE Conference on Human-Robot Interaction (HRI 2008), Amsterdam, The Netherlands*. Best Paper Award (1 in 134 submissions).
- 2007
- Mutlu, B.**, Krause, A., Forlizzi, J., Guestrin, C., & Hodgins, J. Robust, Low-Cost, Non-Intrusive Recognition of Seated Postures. *Proceedings of the 20th ACM Symposium on User Interface Software and Technology (UIST 2007), Newport, RI*.
- 2006
- Mutlu, B.**, Forlizzi, J., Nourbakhsh, I., & Hodgins, J. The Use of Abstraction and Motion in the Design of Social Interfaces. *Proceedings of the ACM Conference on Designing Interactive Systems (DIS 2006), State College, PA*.
- Mutlu, B.**, Forlizzi, J., & Hodgins, J. A Storytelling Robot: Modeling and Evaluation of Human-like Gaze Behavior. *Proceedings of the IEEE-RAS Conference on Humanoid Robots (Humanoids 2006), Genova, Italy*.
- Mutlu, B.**, Osman, S., Forlizzi, J., Hodgins, J., & Kiesler, S. Task Structure and User Attributes as Elements of Human-Robot Interaction Design. *Proceedings of the 15th IEEE Symposium on Robot and Human Interactive Communication (RO-MAN 2006), Hatfield, U.K..*
- 2005
- Forlizzi, J., DiSalvo, C., Zimmerman, J., **Mutlu, B.**, & Hurst, A. The SenseChair: The lounge chair as an intelligent assistive

- device for elders. *Proceedings of the ACM Conference on Designing for User Experiences (DUX 2005)*, Fort Mason, CA.
- 2004 Forlizzi, J., **Mutlu, B.**, & DiSalvo, C. A Study of How Products Contribute to the Emotional Aspects of Human Experience. *Proceedings of the 2004 Design & Emotion Conference*, Ankara, Turkey.
- Mutlu, B.**, & Forlizzi, J. The Chaotic Nature of Human Experience: An Alternative Approach to Determinacy in Understanding Emotions and Experience. *Proceedings of the 2004 Design & Emotion Conference*, Ankara, Turkey.
- 2003 **Mutlu, B.**, & Er, H. A. Design Innovation: Historical and Theoretical Perspectives on Product Innovation by Design. *Proceedings of the 5th European Academy of Design Conference*, Barcelona, Spain.

Teaching & Curriculum Development

Selected courses and curricular initiatives I developed and taught.

INSTRUCTION & COURSE DEVELOPMENT

Designed and taught a comprehensive Human-Computer Interaction (HCI) curriculum serving computer science and interdisciplinary undergraduate and graduate students. I have consistently earned strong student evaluations (typically above 6.3/7.0). Courses taught include:

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|--------------|---|
| 2026–present | CS-271 <i>Interaction Design Studio</i> – Undergraduate studio course on interaction design fundamentals. |
| 2021–present | CS-772 <i>Building Interactive Systems</i> – Graduate-level course at the intersection of HCI, machine learning, robotics, and systems. |
| 2009–present | CS/Psych/EdPsych-770 <i>Human-Computer Interaction</i> – Graduate seminar integrating HCI theory and methods. |
| 2019–present | CS-571 <i>Building User Interfaces</i> – UX design and development course covering web, mobile, voice interfaces. |
| 2009–present | CS-270 <i>Fundamentals of HCI</i> – Introductory, non-major course focused on user-centered design, usability. |
| 2009–present | CS-570 <i>Introduction to HCI</i> – Hands-on course for CS majors on real-world applications of HCI methods. |

PROGRAM & CURRICULUM LEADERSHIP

- | | |
|--------------|--|
| 2025–present | Led the development of a professional master's program in robotics, to be jointly offered by the Departments of Computer Sciences & Mechanical Engineering. |
| 2020–present | Director and PI of <i>INTEGRATE</i> , an NSF NRT training program spanning computing, engineering, psychology, economics, and policy focused on robotics and the future of work. |
| 2018–2019 | Developed and offered “Agile Research Studio,” a credit-bearing undergraduate research experience. |
| 2017–present | Co-creator and instructor for <i>Mad UX</i> , a remote graduate certificate in UX design (in collaboration with the iSchool). |
| 2009– | Developed and led the HCI PhD qualifying exam |

Graduate Advising & Student Mentoring

Across my career, I have advised 28 PhD students (graduated and current), mentored 6 postdoctoral scholars, hosted 8 international visiting scholars and students, and supervised 11 MS students (graduated and current) as well as many undergraduate researchers.

PAST PHD ADVISEES

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|-----------|--|
| 2020–2025 | Dr. Bengisu Çagiltay (CS) Koc University, Faculty |
| 2019–2025 | Dr. Laura Stegner (CS) George Washington University, Faculty |
| | Dr. Nathan White (CS) Intrinsic |

2017–2024	Dr. Olivia Zhao (Psych) Apple
	Dr. Pragathi Praveena (CS) Carnegie Mellon University, Postdoctoral Researcher
2016–2024	Dr. Andrew Schoen (CS) Semio
2016–2022	Dr. David Porfirio (CS) George Mason University, Faculty
2016–2019	Dr. Joseph Michaelis (Ed Psych) University of Chicago Illinois, Faculty
2015–2022	Dr. Daniel Rakita (CS) Yale University, Faculty
2012–2015	Dr. Daniel Szafir (CS) UNC-Chapel Hill, Faculty
2011–2015	Dr. Chien-Ming Huang (CS) Johns Hopkins University, Faculty
2010–2016	Dr. Sean Andrist (CS) Microsoft Research
	Dr. Tomislav Pejsa (CS) Meta
2010–2015	Dr. Irene Rae (CS) Google
	Dr. Allison (Terrell) Sauppé (CS) University of Wisconsin–La Crosse, Faculty
2010–2014	Dr. Dee Miller (ISyE) Adobe

CURRENT PHD ADVISEES

2025-present	Heidi Spalitta (CS)
	Xinyu Jessica Wang (CS)
	Xinning He (CS)
2025-present	Michael Xu (CS)
	Yuna Hwang (CS)
2022-present	Hailey Johnson (CS)
2021-present	Amy Koike (CS)
	Callie Kim (CS)
	Christine Lee (CS)
2020-present	Dakota Sullivan (CS)
	Yixin Hu (CS)
	Irene Ho (Ed Psych/CS)

PAST POSTDOCTORAL ADVISEES

2023-2025	Dr. Arissa J. Sato (CS)
2021-2024	Dr. Sophie Wohltjen (Psych) University of Tennessee, Faculty
	Dr. Hajin Lim (CS) Seoul National University, Faculty
2019-2022	Dr. Emmanuel Senft (CS) Idiap Research Institute, Group Lead

CURRENT POSTDOCTORAL ADVISEES

2025–present	Dr. Tugce Nur Pekcetin (CS) Fulbright Fellow
	Dr. Serena Ge Guo (iSchool)

Service & Leadership

Selected roles reflecting leadership in the HCI, robotics, and design research communities.

SCHOLARLY LEADERSHIP

- 2020–present Secretary-Treasurer, *Human-Computer Interaction Consortium (HCIC)*
2013–2020 Member, Board of Governors (UW–Madison representative), *Human-Computer Interaction Consortium (HCIC)*
2018–2021 Co-chair, *Steering Committee of the ACM/IEEE Human-Robot Interaction (HRI) Conference*
2011–2014 Elected Member, *Steering Committee of the ACM/IEEE Human-Robot Interaction (HRI) Conference*

MAJOR EDITORIAL ROLES

- 2018–2024 Founding Chief Editor, *Frontiers in Robotics and AI* (HRI section)
2017–present Associate Editor, *Human–Computer Interaction Journal*
2020–present Associate Editor, *Foundations and Trends in Human–Computer Interaction*
2013–2016 Associate Editor, *Journal of Human–Robot Interaction*
2013–2017 Associate Editor, *IEEE Transactions on Affective Computing*
2011–2013 Associate Editor, *Journal of Entertainment Computing*
2012–2013 Managing Technical Editor, *Journal of Human–Robot Interaction*

CONFERENCE ORGANIZATION

- 2017 General Co-Chair, *ACM/IEEE HRI Conference*
2016 Program Co-Chair, *IEEE ROMAN Conference*
2015 Program Co-Chair, *ACM/IEEE HRI Conference*
2013–2014 Program Subcommittee Co-chair, *ACM Conference on Human Factors in Computing (CHI)*
2011 Program Co-Chair, *International Conference on Social Robotics (ICSR)*

Service at the University & Department

Selected university- and department-level contributions.

UNIVERSITY SERVICE

- 2025–present Faculty Rights and Responsibilities Committee
2022–2024 Physical Sciences Divisional Committee (Vice Chair in Year 2)

DEPARTMENT SERVICE (COMPUTER SCIENCES)

- 2011–2021 Faculty Hiring Committee (Chair, 2018–2021)
2021–2024 New CDIS Building Committee
2019–2020 Budget Committee
2020–2021 Chair's Advisory Committee
2009–2024 Publicity Committee
2012–2015 Facilities Committee

ADDITIONAL CAMPUS ROLES

- 2009–2019 Faculty Advisor, Undergraduate Research Scholars
2011–2013 Advisory Board Member, DesignLab

2011–2013

Advisory Board Member, WID Living Environments Laboratory

Selected Media & Public Engagement

Selected coverage in major media outlets.

The Economist — Interviewed for feature on robots in human work (“Our friends electric”).

WIRED — Interviewed for “This Warehouse Robot Reads Human Body Language.”

MIT Technology Review — Multiple articles featuring research on social robotics and robot behavior design.

New Scientist — Extensive coverage and interviews on robot communication and education.

Popular Science — Research featured in articles on educational and social robots.

Discover Magazine — Research featured in story on robotic reading companions for children.

Voice of America / Science Nation — Broadcast coverage of research on adaptive and instructional robotics.