

# Chien-Ming Huang, Ph.D.

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## Professional Experience

John C. Malone Assistant Professor	2018–present
Assistant Professor	2017–present
Department of Computer Science, Johns Hopkins University	Baltimore, MD, USA
Postdoctoral Associate	2015–2017
Department of Computer Science, Yale University	New Haven, CT, USA
Mentor: Brian Scassellati	
Research Intern	2013
Intelligent Robotics and Communication Laboratory, ATR International	Kyoto, Japan
Mentor: Takayuki Kanda	
Research Assistant	2007–2008
Institute of Information Science, Academia Sinica	Taipei, Taiwan
Mentor: Chun-Nan Hsu	

## Education

Ph.D. in Computer Science	2010–2015
University of Wisconsin–Madison	Madison, WI, USA
Thesis committee: Bilge Mutlu (Chair), Maya Cakmak, Mark Craven, Jerry Zhu, Michael Zinn	
M.S. in Computer Science	2008–2010
Georgia Institute of Technology	Atlanta, GA, USA
Thesis committee: Andrea Thomaz (Chair), Rosa Arriaga, Henrik Christensen	
B.S. in Computer Science	2002–2006
National Chiao Tung University	Hsinchu, Taiwan

## Honors & Awards

Professor Joel Dean Excellence in Teaching Award	2020
John C. Malone Assistant Professorship	2018–present
CHI Early Career Symposium	2018
New Educators Workshop, SIGCSE (Computer Science Education)	2018
Best paper award runner-up, Robotics: Science and Systems (RSS)	2013
Best student poster runner-up, Robotics: Science and Systems (RSS)	2013
ICMI doctoral consortium	2013
HRI Pioneer	2012
CHI doctoral consortium	2012

## Honors & Awards to My Students

Gopika Ajaykumar (CS PhD), ICMI doctoral consortium	2021
Kaitlynn Pineda (CS PhD), Computer Science Department Fellowship	2021
Vicky Zeng (CS PhD), Robotics PhD Fellowship	2021

Juan Antonio Barragan (CS PhD), Robotics PhD Fellowship	2021
Fanjun (Frank) Bu (CS BS), JHU CS+X Award	2021
Fanjun (Frank) Bu (CS BS), CRA Outstanding Undergraduate Researcher Honorable Mention	2021
Amama Mahmood (CS PhD), Computer Science Department Fellowship	2020
Gopika Ajaykumar (CS PhD), Inaugural Joint Nursing/Engineering Fellowship	2019
Maia Stiber (CS PhD), Computer Science Department Fellowship	2019
Gopika Ajaykumar (CS PhD), NSF Graduate Research Fellowship	2018
Amrita Krishnaraj (Robotics MS), Robotics MS Fellowship	2018
Xin Ren (Robotics MS), Robotics MS Fellowship	2018

## Publications

Note that conferences represent a primary publication venue in Computer Science. All publications can be found on my [Google Scholar profile](#). Below, I highlight students that I supervise directly (**my students**) and students that I mentor closely (**other PIs' students**).

### Peer-Reviewed Journal Articles

- J.9 **Fanjun Bu** and Chien-Ming Huang. [Object Permanence Through Audio-Visual Representations](#). *IEEE Access*, 2021.
- J.8 **Gopika Ajaykumar**, **Maia Stiber**, and Chien-Ming Huang. [Designing User-Centric Programming Aids for Kinesthetic Teaching of Collaborative Robots](#). *Robotics and Autonomous Systems*, 103845, 2021.
- J.7 **Gopika Ajaykumar**, **Maureen Steele**, and Chien-Ming Huang. A Survey on End-User Robot Programming. *ACM Transactions on Computing Survey*, 2021.
- J.6 Chung Hyuk Park, Raquel Ros, Sonya S. Kwak, Chien-Ming Huang, and Séverin Lemaisnan. [Editorial: Towards Real World Impacts: Design, Development, and Deployment of Social Robots in the Wild](#). *Frontiers in Robotics and AI (Human-Robot Interaction)*, 7, 2020.
- J.5 **Aditi Ramachandran**, Chien-Ming Huang, and Brian Scassellati. [Toward Effective Robot-Child Tutoring: Intrinsic Motivation, Behavioral Intervention, and Learning Outcomes](#). *ACM Transactions on Interactive Intelligent Systems*, 9(1), 1–23, 2019.  
Invited to present at IUI'20
- J.4 Brian Scassellati, Laura Boccanfuso, Chien-Ming Huang, Marilena Mademtzzi, Meiyong Qin, Nicole Salomons, Pamela Ventola, and Frederick Shic. [Improving Social Skills in Children with ASD Using a Long-Term, In-Home Social Robot](#). *Science Robotics*, 3(21), 2018.
- J.3 Chien-Ming Huang, Sean Andrist, Allison Sauppé, and Bilge Mutlu. [Using Gaze Patterns to Predict Task Intent in Collaboration](#). *Frontiers in Psychology (Cognitive Science)*, 6, 1049, 2015.
- J.2 Chien-Ming Huang and Bilge Mutlu. [Multivariate Evaluation of Interactive Robot Systems](#). *Autonomous Robots*, 37(4), 335–349, 2014.
- J.1 Chien-Ming Huang and Bilge Mutlu. [The Repertoire of Robot Behavior: Enabling Robots to Achieve Interaction Goals through Social Behavior](#). *Journal of Human-Robot Interaction (Now ACM Transactions on Human-Robot Interaction)*, 2(2), 80–102, 2013.

### Peer-Reviewed/Invited Conference Full Papers

- C.17 **Ji Han**, **Gopika Ajaykumar**, **Ze Li**, and Chien-Ming Huang. [Structuring Human-Robot Interactions via Interaction Conventions](#). In *Proceedings of the 29th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, (pp. 341–348), IEEE, 2020.

- C.16 Ehsan Azimi, Zhiyuan Niu, Maia Stiber, Nicholas Greene, Ruby Liu, Camilo Molina, Judy Huang, Chien-Ming Huang, and Peter Kazanzides. [An Interactive Mixed Reality Platform for Bedside Surgical Procedures](#). In *Proceedings of the 2020 Medical Image Computing and Computer Assisted Interventions (MICCAI)*, (pp. 65–75), Springer, 2020.
- C.15 Chien-Ming Huang. [Contextual Programming of Collaborative Robots](#). In *Proceedings of the 2020 International Conference on Human-Computer Interaction (HCI)*, (pp. 321–338), Springer, 2020.  
Invited paper
- C.14 Kapil Katyal, Katie Popek, Gregory Hager., I-Jeng Wang, and Chien-Ming Huang. Prediction-Based Uncertainty Estimation for Adaptive Crowd Navigation. In *Proceedings of the 2020 International Conference on Human-Computer Interaction (HCI)*, (pp. 353–368), Springer, 2020.
- C.13 Kapil Katyal, Gregory Hager, and Chien-Ming Huang. [Intent-Aware Pedestrian Prediction for Adaptive Crowd Navigation](#). In *Proceedings of the 2020 IEEE International Conference on Robotics and Automation (ICRA)*, (pp. 3277–3283), IEEE, 2020.  
Acceptance rate: 42%
- C.12 Yeping Wang, Gopika Ajaykumar, and Chien-Ming Huang. [See What I See: Enabling User-Centric Robotic Assistance Using First-Person Demonstrations](#). In *Proceedings of the 2020 ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, (pp. 639–648), 2020.  
Acceptance rate: 24%
- C.11 Yuxiang Gao and Chien-Ming Huang. [PATI: A Projection-based Augmented Table-Top Interface for Robot Programming](#). In *Proceedings of the 2019 ACM International Conference on Intelligent User Interface (IUI)*, (pp. 345–355), 2019.  
Acceptance rate: 25%
- C.10 Aditi Ramachandran, Chien-Ming Huang, Edward Gartland, and Brian Scassellati. [Thinking Aloud with a Tutoring Robot to Enhance Learning](#). In *Proceedings of the 2018 ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, (pp. 59–68), 2018.  
Acceptance rate: 23%
- C.9 Aditi Ramachandran, Chien-Ming Huang, and Brian Scassellati. [Give Me a Break! Personalized Timing Strategies to Promote Learning in Robot-Child Tutoring](#). In *Proceedings of the 2017 ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, (pp. 146–155), 2017.  
Acceptance rate: 24%
- C.8 Chien-Ming Huang and Bilge Mutlu. [Anticipatory Robot Control for Efficient Human-Robot Collaboration](#). In *Proceedings of the 2016 ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, (pp. 83–90). IEEE, 2016.  
Acceptance rate: 25%
- C.7 Chien-Ming Huang, Maya Cakmak, and Bilge Mutlu. [Adaptive Coordination Strategies for Human-Robot Handovers](#). In *Proceedings of the 2015 Robotics: Science and Systems Conference (RSS)*, (Vol. 11), 2015.  
Acceptance rate: 26%; Invited presentation at AAAI'16 (Robotics special track)
- C.6 Allison Sauppé, Daniel Szafir, Chien-Ming Huang, and Bilge Mutlu. [From 9 to 90: Engaging Learners of All Ages](#). In *Proceedings of the 46th ACM Technical Symposium on Computer Science Education (SIGCSE)* (pp. 575–580), 2015.  
Acceptance rate: 36%
- C.5 Chien-Ming Huang, Takamasa Iio, Satoru Satake, and Takayuki Kanda. [Modeling and Controlling Friendliness for an Interactive Museum Robot](#). In *Proceedings of the 2014 Robotics: Science and Systems Conference (RSS)*, (pp. 12–16), 2014.  
Acceptance rate: 32%

- C.4 Chien-Ming Huang and Bilge Mutlu. [Learning-based Modeling of Multimodal Behaviors for Humanlike Robots](#). In *Proceedings of the 2014 ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, (pp. 57–64). IEEE, 2014.  
Acceptance rate: 24%
- C.3 Chien-Ming Huang and Bilge Mutlu. [Modeling and Evaluating Narrative Gestures for Humanlike Robots](#). In *Proceedings of the 2013 Robotics: Science and Systems Conference (RSS)*, (pp. 57–64), 2013.  
Acceptance rate: 30%; Best paper award runner-up (5/183)
- C.2 Chien-Ming Huang and Bilge Mutlu. [Robot Behavior Toolkit: Generating Effective Social Behaviors for Robots](#). In *Proceedings of the 2012 ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, (pp. 25–32). IEEE, 2012.  
Acceptance rate: 25%
- C.1 Chien-Ming Huang and Andrea L. Thomaz. [Effects of Responding to, Initiating and Ensuring Joint Attention in Human-Robot Interaction](#). In *Proceedings of the 20th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, (pp. 65–71). IEEE, 2011.

### Doctoral Consortia

- DC.3 Chien-Ming Huang. [Designing Effective Multimodal Behaviors for Robots: A Data-Driven Perspective](#). In *Proceedings of the 15th ACM on Interaction Conference on Multimodal Interaction (ICMI)*, (pp. 329–332), 2013.
- DC.2 Chien-Ming Huang. [Designing Effective Behaviors for Educational Embodied Agents](#). In *Extended Abstracts of the ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI)*, (pp. 931–934), 2012.  
Acceptance rate: 23%
- DC.1 Chien-Ming Huang. [Generating Effective Social Behaviors for Robots](#). In *Proceedings of the HRI Pioneers Workshop*, 2012.  
Acceptance rate: 28%

### Refereed/Invited Symposium, Workshop, & Conference Short Papers

- S.15 [Gopika Ajaykumar](#) and Chien-Ming Huang. [Multimodal Robot Programming by Demonstration: A Preliminary Exploration](#). *2021 RSS Workshop on Accessibility of Robot Programming and the Work of the Future*, 2021.
- S.14 [Yuxiang Gao](#), Kapil Katyal, Jared Markowitz, I-Jeng Wang, and Chien-Ming Huang. [Don't be Rude! Learning Group-aware Policies for Robot Navigation](#). *2021 RSS Workshop on Social Robot Navigation*, 2021.
- S.13 [Gopika Ajaykumar](#), [Annie Mao](#), Jeremy Brown, and Chien-Ming Huang. [FACT: A Full-body Ad-hoc Collaboration Testbed for Modeling Complex Teamwork](#). *2021 ICRA Workshop on Social Intelligence in Humans and Robots*, 2021.
- S.12 [Julia Oppenheim](#), [Jindan Huang](#), [Isabel Won](#), and Chien-Ming Huang. [Mental Synchronization in Human Task Demonstration: Implications for Robot Teaching and Learning](#). In *Companion of the 2021 ACM/IEEE International Conference on Human-Robot Interaction (HRI)* (pp. 470–474), 2021.
- S.11 [Maia Stiber](#) and Chien-Ming Huang. [Not All Errors Are Created Equal: Exploring Human Responses to Robot Errors with Varying Severity](#). In *Companion Publication of the 2020 International Conference on Multimodal Interaction (ICMI)* (pp. 97–101), 2020.
- S.10 [Gopika Ajaykumar](#) and Chien-Ming Huang. [User Needs and Design Opportunities in End-User Robot Programming](#). In *Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction (HRI)* (pp. 93–95), 2020.
- S.9 [Kapil Katyal](#), I-Jeng Wang, Gregory Hager, and Chien-Ming Huang. [Intent-Aware Human Motion Prediction using Deep Generative Neural Networks](#). *Do Good Robotics Symposium*, 2019.

- S.8 [Barton Paulhamus](#), Edward Staley, Corban Rivera, Kapil Katyal, and Chien-Ming Huang. [Amplified Control for Robotic Systems](#). *Do Good Robotics Symposium*, 2019.
- S.7 [Yuxiang Gao](#) and Chien-Ming Huang. [Robot Programming by Situated Illustration](#). *Do Good Robotics Symposium*, 2019.
- S.6 [Ehsan Azimi](#), Camilo Molina, Alexander Chang, Judy Huang, Chien-Ming Huang, and Peter Kazanzides. Interactive Training and Operation Ecosystem for Surgical Tasks in Mixed Reality. In *OR 2.0 Context-Aware Operating Theaters (MICCAI)* (pp. 20–29). Springer, 2018.
- S.5 Sarah Strohkorb, Chien-Ming Huang, Aditi Ramachandran, and Brian Scassellati. [Establishing Sustained, Supportive Human-Robot Relationships: Building Blocks and Open Challenges](#). In *2016 AAAI Spring Symposium Series*, 2016.
- S.4 Allison Sauppé and Chien-Ming Huang. Teaching Human-Robot Interaction Using the CSTA Recommendations. In *HRI Education Workshop: How to design and teach courses in Human-Robot Interaction (HRI)*, 2015.
- S.3 Chien-Ming Huang and Bilge Mutlu. [Modeling Human-Robot Interactions as Systems of Distributed Cognition](#). In *2014 AAAI Fall Symposium on Artificial Intelligence and Human-Robot Interaction (AI-HRI)*, 2014.
- S.2 Bilge Mutlu, Allison Terrell, and Chien-Ming Huang. [Coordination Mechanisms in Human-Robot Collaboration](#). In *HRI Workshop on Collaborative Manipulation (HRI)*, 2013.
- S.1 Chien-Ming Huang and Andrea L. Thomaz. [Joint Attention in Human-Robot Interaction](#). In *2010 AAAI Fall Symposium on Dialog with Robots*, 2010.

## Theses

- T.2 Chien-Ming Huang. [Human-Robot Joint Action: Coordinating Attention, Communication, and Actions](#). Doctor of Philosophy (Ph.D.) Thesis. Department of Computer Sciences, University of Wisconsin–Madison, 2015.
- T.1 Chien-Ming Huang. [Joint Attention in Human-Robot Interaction](#). Master of Science (M.S.) Thesis. College of Computing, Georgia Institute of Technology, 2010.

## Patent

- P.1 Hyun-Ryong Jung, Jamee Kim Lee, Lilla Moshkina, Ronald Arkin, Sunghyun Park, and Chien-Ming Huang. [Affective Model Device and Method for Deciding the Behavior of an Affective Model Device](#). USA patent US8458112 B2, 2013.

## Open Dataset and Software

*I am committed to disseminating our knowledge and research products to the scientific community and the public. My [research group website](#) provides pointers to our research implementations, research talks, and demo videos.*

- O.1 Fanjun Bu and Chien-Ming Huang. [Dataset: Audio-Visual Representations of Object Drops](#). Johns Hopkins University Data Archive, V1, 2020.

## Research Funding

- E4 Toward Human-Centered Assured Autonomy: Socially-Aware Robot Navigation in Human Environments  
 Source: Johns Hopkins University Institute for Assured Autonomy (IAA)  
 Investigators: Chien-Ming Huang (PI), I-Jeng Wang  
 Period: 2020–2022  
 Amount: \$ 677,763 (My portion: \$374,390)

- E3 FW-HTF: Human-Machine Teaming for Medical Decision Making  
 Source: National Science Foundation 1840088  
 Investigators: Suchi Saria (PI), Chien-Ming Huang, Martin Makary, William Padula, David Newman-Toker  
 Period: 2019–2024  
 Amount: \$1,500,000 (My portion: \$295,467)
- E2 Human-Robot Co-Navigation  
 Source: JHU Applied Physics Laboratory (APL)  
 Investigator: Chien-Ming Huang (PI)  
 Period: 2019  
 Amount: \$30,000
- E1 Equipment Award – [Quori Robot](#)  
 Investigators: Chien-Ming Huang (PI), Gregory Hager, John Krakauer  
 Year: 2019

## Teaching

Instructor, <b>EN.601.490/690 Introduction to Human-Computer Interaction</b> Department of Computer Science, Johns Hopkins University Overall quality: 4.44/5.00 (response=44, size=61) Overall quality: 4.19/5.00 (response=52, size=53) Overall quality: 4.39/5.00 (response=44, size=45)	Baltimore, MD, USA Fall 2020 Fall 2019 Fall 2018
Instructor, <b>EN.601.491/691 Human-Robot Interaction</b> Department of Computer Science, Johns Hopkins University Overall quality: 4.65/5.00 (response=26, size=26) Overall quality: 4.70/5.00 (response=23, size=24) Overall quality: 4.19/5.00 (response=16, size=17)	Baltimore, MD, USA Spring 2020 Spring 2019 Spring 2018
Teaching Assistant, <b>CS 302 Introduction to Programming</b> Department of Computer Science, University of Wisconsin–Madison	Spring 2011 Madison, WI, USA
Teaching Assistant, <b>CS 367 Introduction to Data Structures</b> Department of Computer Science, University of Wisconsin–Madison	Fall 2010 Madison, WI, USA

## Advising

### PhD students

Drew Prinster Department of Computer Science, Johns Hopkins University Primary advisor: Suchi Saria	2021–present
Kaitlynn Pineda Department of Computer Science, Johns Hopkins University Secondary advisor: Greg Hager <a href="#">2021 Computer Science Department Fellowship</a>	2021–present
Victor Antony Department of Computer Science, Johns Hopkins University	2021–present
Vicky Zeng Department of Computer Science, Johns Hopkins University Primary advisor: Greg Hager <a href="#">2021 LCSR Fellowship</a>	2021–present

Juan Antonio Barragan 2021–present  
Department of Computer Science, Johns Hopkins University  
Primary advisor: Peter Kazanzides  
[2021 LCSR Fellowship](#)

Amama Mahmood 2020–present  
Department of Computer Science, Johns Hopkins University  
[2020 Computer Science Department Fellowship](#)

Maia Stiber 2019–present  
Department of Computer Science, Johns Hopkins University  
Secondary advisor: Russ Taylor  
[2019 Computer Science Department Fellowship](#)

Yuxiang Gao 2019–present  
Department of Computer Science, Johns Hopkins University

Gopika Ajaykumar 2018–present  
Department of Computer Science, Johns Hopkins University  
[2019 Joint Nursing/Engineering Fellowship](#)  
[2018 NSF Graduate Research Fellowship](#)

### **DEng (Doctor of Engineering) Students**

Barton Paulhamus 2018–2021  
Whiting School of Engineering, Johns Hopkins University  
Thesis: *Integrating Usability with Task Performance for Shared Autonomy*

### **Master's Students (Research/Project)**

Xi (Stanley) Wang (CS) 2020–2021  
Brandon Tran (Robotics, Next: CS PhD at the University of Southern California) 2019–2020  
Yeping Wang (Robotics, Next: CS PhD at the University of Wisconsin–Madison) 2019–2020  
Jindan Huang (CS, Next: CS PhD at Tufts University) 2019–2020  
Amama Mahmood (Robotics, Next: CS PhD at Johns Hopkins University) 2019–2020  
Xingli Han (CS, Next: Robotics PhD at Worcester Polytechnic Institute) 2019  
Amrita Krishnaraj (Robotics, Next: Van Robotics) 2018–2019  
Ruiqing Yin (Robotics, Next: Galen Robotics) 2018–2019  
Ji Han (Robotics, Next: Tusimple) 2018  
Yuxiang Gao (Robotics, Next: CS PhD at Johns Hopkins University) 2018  
Xin Ren (Robotics, Next: Pony.ai) 2018

### **Undergraduate Students (Research/Project)**

Shiye (Sally) Cao (CS) 2021–present  
Jeanie Fung (CogSci) 2021–present  
Isabel Won (CogSci) 2020–2021  
Kaushik Srinivasan (CS) 2020–2021  
Fanjun (Frank) Bu (CS, Next: CS PhD at Cornell Tech) 2020–2021  
[2021 CRA Outstanding Undergraduate Researcher Honorable Mention](#)  
Julia Oppenheim (CS, CogSci, Next: MongoDB) 2019–2020  
Brandon Lax (ECE, Next: Amazon) 2019–2020

### **PhD Thesis Committee**

Brittany Drazich (Nursing, Johns Hopkins University), advised by Janiece Taylor and Sarah Szanton 2021  
Thesis: *Technology Use and the Mental Health and Well-being of Older Adults*

Kapil Katyal (CS, Johns Hopkins University), advised by Greg Hager 2021  
Thesis: *Integrating Perception, Prediction and Control for Adaptive Mobile Navigation*

Ehsan Azimi (CS, Johns Hopkins University), advised by Peter Kazanzides and Russ Taylor 2020  
Thesis: *Interactive Platform for Medical Procedures in Mixed Reality*

### **JHU Graduate Board Oral (GBO) Exam Committee**

Ranjani Srinivasan (ECE, 2021), Haomin Chen (CS, 2021), Noam Finklestein (CS, 2020), Brittany Drazich (Nursing, 2020), Mohit Singhala (ME, 2020), Gaungyu Yang (CS, 2019), Ehsan Azimi (CS, 2018), Kapil Katyal (CS, 2018)

### **JHU PhD Student Qualifying Research Projects**

Dayeon Kim (CS, 2021), Jaron Lee (CS, 2020), Carlos Aguirre (CS, 2020)

### **Visiting Students**

Junlin Wu (Wuhan University) Summer 2018  
Ze Li (Tsinghua University), Next: CS MS at New York University Summer 2018  
Yuxn Xu (Peking University, Next: CS MS at Columbia University) Summer 2018

### **Invited Talks**

#### **Human Subjects Experiments in Robotics Research**

Laboratory for Computational Sensing and Robotics, Johns Hopkins University 2021  
Jointly presented with Jeremy Brown

#### **How might older adults be supported by social robots?**

Center for Innovative Care in Aging, Johns Hopkins School of Nursing 2021

#### **Integrating Robots into the Future of Work**

FORW-RD NSF Research Traineeship (NRT) Program, Worcester Polytechnic Institute 2020  
[Keynote Speaker](#)

#### **Socially Assistive Robots for Autism Research**

Center for Neurodevelopmental and Imaging Research, Kennedy Krieger Institute 2018

#### **Empowering People Using Socially Intuitive Robots**

Intelligent Systems Center Seminar, Applied Physics Laboratory 2017

#### **Designing Intuitive Interactions for Human-Robot Teams**

Southwest Texas Asian Symposium, University of Texas Rio Grande Valley 2017  
Laboratory for Computational Sensing and Robotics, Johns Hopkins University 2017

#### **Building Socially Cooperative Human-Robot Teams**

Department of Computer Science, Johns Hopkins University 2017  
Department of Computer Science, University of South Carolina 2017  
Department of Computer Science, University of North Carolina at Charlotte 2017  
Department of Computer Science, University of Illinois at Urbana-Champaign 2017  
School of Computing, Clemson University 2017

#### **Designing Interactive Robots for Everyday People**

Department of Computer Science, University of North Carolina at Chapel Hill 2016

#### **Adaptive Coordination Strategies for Human-Robot Handovers**

[Invited RSS Early Career Spotlight Talk at AAAI'16](#) 2016

#### **Designing Robotic Systems to Assist Everyday Users**

Microsoft Research 2015  
Department of Computer Science, University of Minnesota, Twin Cities 2015



## Professional Service & Leadership

### Organization Service for Conferences & Workshops

Registration Chair, HRI'18	2018
Co-Organizer, Workshop on Towards a framework for Joint Action, RSS'18	2018
Co-Organizer, Workshop on Synergies between Learning and Interaction, IROS'17	2017
Co-Organizer, Workshop on Socially and Physically Assistive Robotics for Humanity, RSS'16	2016
Co-Organizer, Workshop on Long-Term Child-Robot Interaction, RO-MAN'16	2016

### Editorial Service

Associate Editor ACM Transactions on Human-Robot Interaction	2018–present
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Guest Editor Frontiers in Robotics and AI <i>Towards Real World Impacts: Design, Development, and Deployment of Social Robots in the Wild</i>	2018–2019
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### Funding Agency Referee

Panelist, National Science Foundation (NSF)	2020, 2021
External reviewer, National Science Foundation (NSF)	2019

### Program Committee

International Conference on Human-Robot Interaction (HRI)	2018, 2019, 2021, 2022
International Conference on Human Factors in Computing Systems (CHI)	2019
AAAI Conference on Artificial Intelligence (AAAI)	2017, 2018
International Symposium on Robot and Human Interactive Communication (RO-MAN)	2016
International Conference on Human-Agent Interaction (HAI)	2014, 2016
International Conference on Social Robotics (ICSR)	2016
International Conference on Biomedical Robotics and Biomechatronics (BioRob)	2020

### Conference Paper Referee

International Conference on Human-Robot Interaction (HRI)	2012–2017, 2020
Robotics: Science and Systems (RSS)	2021
International Conference on Robotics and Automation (ICRA)	2017, 2019, 2020
International Conference on Intelligent Robots and Systems (IROS)	2014, 2017, 2021
International Conference on Human Factors in Computing Systems (CHI)	2012, 2016, 2017
International Symposium on Robotics Research (ISRR)	2017
International Symposium on Robot and Human Interactive Communication (RO-MAN)	2013–2015, 2017
International Conference on Humanoid Robots	2014
International Conference on Multimodal Interaction (ICMI)	2012
International Conference on Human-Agent Interaction (HAI)	2014
International conference on Tangible, Embedded and Embodied Interaction	2016
IEEE Conference on Virtual Reality and 3D User Interfaces (VR)	2018
International Symposium on Experimental Robotics (ISER)	2018

### Journal Article Referee

International Journal of Social Robotics
Journal of Human-Robot Interaction
International Journal of Robotics Research
Pattern Recognition Letters
Interaction Studies
International Journal of Human-Computer Interaction
IEEE Transactions on Affective Computing
IEEE Transactions on Human-Machine Systems

IEEE Transactions on Autonomous Mental Development  
IEEE Robotics and Automation Letters  
Journal of Intelligent and Robotic Systems  
International Journal of Developmental Disabilities  
Cognitive Systems Research  
Robotica  
Frontiers in Robotics and AI  
British Journal of Educational Technology

## University Service

*Department of Computer Science, Johns Hopkins University*

HCI Initiative Committee 2019–present  
Faculty Search Committee 2018, 2019  
Student Awards Committee 2017–present

*Whiting School of Engineering, Johns Hopkins University*

Engineering Faculty Academic Advisory Committee (EFAAC) CS Representative 2021–present  
Multidisciplinary Design Search Committee 2020  
Multidisciplinary Design Initiative Faculty Advisor 2018–present  
IAA Workshop Technical Committee 2019  
Design Day Planning Committee 2019

*Johns Hopkins University*

Alpha Phi Omega (APO) Academic Advisor 2018–present

## Selected Outreach

Girl scouts robotics workshop, Maryland Science Center, Baltimore, MD, USA 2019  
WISE STEM mentor program for high school women, Baltimore, MD, USA 2019  
JHU WSE Dean's Alumni Networking Brunch in New York City, NY, USA 2019  
JHU WSE Alumni Week Engagement, Baltimore, MD, USA 2019  
Social Robotics Summer Program, Grandparents University, Madison, WI, USA 2014

## Selected Press

[Robot programming for everyday people](#) (JHU Hub) 2021  
[Plays well with humans](#) (JHU Magazine) 2019  
[Robots are becoming classroom tutors. But will they make the grade?](#) (Science News) 2019  
[UW professor develops robotic dishwashing arm](#) (The Badger Herald) 2015  
[A new robot helper could make daily chores astronomically more fun](#) (Tech Insider) 2015  
[Teach Your Robot to Do the Dishes](#) (MIT Technology Review) 2015  
[Nao Robot Serves 'Sushi'](#) (AZoRobotics) 2014  
[Bridging the uncanny valley between humans, robots](#) (UW–Madison News) 2014  
[Developing Robots That Can Teach Humans](#) (Science Nation) 2012

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