

HENNY ADMONI

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RESEARCH OVERVIEW

I develop **intelligent robotic assistants and collaborators that detect, interpret, and respond to human needs**, particularly those expressed through nonverbal behaviors. My robots provide **social and physical assistance** in complex activities like learning new information or preparing a meal. My research draws from robotics, cognitive psychology, artificial intelligence, machine learning, and computer vision.

Key words: Assistive robotics, human-robot interaction, collaborative manipulation, intent recognition, nonverbal behavior, cognitive modeling, cognitive psychology

EDUCATION

Ph.D. Computer Science 2016	Yale University Thesis: <i>Nonverbal Communication in Socially Assistive Human-Robot Interaction</i> Advisor: Brian Scassellati
M.S. Computer Science 2012	Yale University Advisor: Brian Scassellati
M.A. Computer Science 2009	Wesleyan University Thesis: <i>Demonstrations of Dynamical Intention for Hybrid Agents</i> Advisor: Eric Aaron
B.A. Computational Cognitive Science (self-designed) 2008	Wesleyan University Thesis: <i>Decision Making and Learning in Hybrid Dynamical Agents</i> Advisors: Eric Aaron, Andrea Patalano, John Kirn Areas of study: Computer Science, Cognitive Psychology, Neuroscience

EMPLOYMENT

Carnegie Mellon Univ 2020–present	A. Nico Habermann Assistant Professor, Robotics Institute
Carnegie Mellon Univ 2017–present	Assistant Professor, Robotics Institute and Human-Computer Interaction Institute (courtesy)
Carnegie Mellon Univ 2015–2017	Postdoctoral Fellow, Robotics Institute
Yale University 2009–2015	Research Assistant, Department of Computer Science

AWARDS AND HONORS

A. Nico Habermann Career Development Professorship	2020–2023
Okawa Research Grant	2020
NSF CAREER Award	2020
CMU Distinguished Lecture: Teruko Yata Memorial Lecture in Robotics	2019
Rising Stars in EECS	2015
Google Anita Borg Memorial Scholarship	2014
National Science Foundation Graduate Research Fellowship	2009–2012
Department of Homeland Security Graduate Fellowship (declined)	2009

PUBLICATIONS

Peer-Reviewed Journal Articles

- J12** Biswas, A., Silvera, G., Steinfeld, A., and **Admoni, H.** (2021). SocNavBench: A grounded simulation testing framework for evaluating social navigation. *ACM Transactions on Human-Robot Interaction*
- J11** Kress-Gazit, H., Eder, K., Hoffman, G., **Admoni, H.**, Argall, B., Ehlers, R., Heckman, C., Jansen, N., Knepper, R., Křetínský, J., Levy-Tzedek, S., Li, J., Murphey, T., Riek, L., and Sadigh, D. (2021). Formalizing and guaranteeing human-robot interaction. *Communications of the ACM*
Impact factor: 4.55
- J10** Lee, M. S., **Admoni, H.**, and Simmons, R. (2021). Machine teaching for human inverse reinforcement learning. *Frontiers in Robotics and AI*, 8:188
CiteScore: 4.4
- J9** Newman, B. A., Aronson, R. M., Srinivasa, S. S., Kitani, K., and **Admoni, H.** (2021). HARMONIC: A multimodal data set of assistive human-robot collaboration. *The International Journal of Robotics Research*
Impact factor: 5.3
- J8** Vasconez, J. P., **Admoni, H.**, and Cheein, F. A. (2021). A methodology for semantic action recognition based on pose and human-object interaction in avocado harvesting processes. *Computers and Electronics in Agriculture*, 184:106057
Impact factor: 5.6
- J7** Han, Z., Giger, D., Allspaw, J., Lee, M. S., **Admoni, H.**, and Yanco, H. A. (2020). Building the foundation of robot explanation generation using behavior trees. *ACM Transactions on Human-Robot Interaction*
- J6** Javdani, S., **Admoni, H.**, Pellegrinelli, S., Srinivasa, S. S., and Bagnell, J. A. (2018). Shared autonomy via hindsight optimization for teleoperation and collaboration. *The International Journal of Robotics Research*, 37:717–742
Impact factor: 5.3
- J5** Scalise, R., Li, S., **Admoni, H.**, Rosenthal, S., and Srinivasa, S. S. (2018). Natural language instructions for human-robot collaborative manipulation. *The International Journal of Robotics Research*, 37:558–565
Impact factor: 5.3

- J4 Admoni, H.** and Scassellati, B. (2017). Social eye gaze in human-robot interaction: A review. *Journal of Human-Robot Interaction*, 6(1):25–63
- J3** Castro-González, A., **Admoni, H.**, and Scassellati, B. (2016). Effects of form and motion on judgments of social robots’ animacy, likability, trustworthiness and unpleasantness. *International Journal of Social Robotics*, 90:27–38
Impact factor: 1.41
- J2** Scassellati, B., **Admoni, H.**, and Matarić, M. (2012). Robots for use in autism research. *Annual Review of Biomedical Engineering*, 14:275–294
Impact factor: 10.95 Cited >900 times (as of 10/2021)
- J1** Aaron, E. and **Admoni, H.** (2010). Action selection and task sequence learning for hybrid dynamical cognitive agents. *Robotics and Autonomous Systems*, 58(9):1049–1056
Impact factor: 1.16

Peer-Reviewed Conference Papers

- C28** Valencia, S., Steidl, M., Rivera, M. L., Bennett, C. L., Bigham, J. P., and **Admoni, H.** (2021). Aided nonverbal communication through physical expressive objects. In *International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*
Acceptance rate: 26% Best Paper Award
- C27** Cui, Y., Koppol, P., **Admoni, H.**, Niekum, S., Simmons, R., Steinfeld, A., and Fitzgerald, T. (2021). Understanding the relationship between interactions and outcomes in human-in-the-loop machine learning. In *International Joint Conferences on Artificial Intelligence (IJCAI)*
Acceptance rate: 14%
- C26** Koppol, P., **Admoni, H.**, and Simmons, R. (2021). Interaction considerations in learning from humans. In *International Joint Conferences on Artificial Intelligence (IJCAI)*
Acceptance rate: 14%
- C25** Valencia, S., Luria, M., Pavel, A., Bigham, J. P., and **Admoni, H.** (2021). Co-designing socially assistive sidekicks for motion-based aac. In *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*
Acceptance rate: 24%
- C24** Aronson, R. M., AlMutlak, N., , and **Admoni, H.** (2021). Inferring goals with gaze during teleoperated manipulation. In *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*
- C23** Hu, Y., Feng, L., Mutlu, B., and **Admoni, H.** (2021). Exploring the role of social robot behaviors in a creative activity. In *ACM Designing Interactive Systems Conference (DIS)*
- C22** Newman, B. A., Biswas, A., Ahuja, S., Girdhar, S., Kitani, K. K., and **Admoni, H.** (2020). Examining the effects of anticipatory robot assistance on human decision making. In *International Conference on Social Robotics*
Acceptance rate: 55%
- C21** Ahuja, S., **Admoni, H.**, and Steinfeld, A. (2020). Learning vision-based physics intuition models for non-disruptive object extraction. In *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*
Acceptance rate: 47% Best Student Paper Nominee
- C20** Taylor, A. V., Matsumoto, A., Carter, E. J., Plopski, A., and **Admoni, H.** (2020). Diminished reality for close quarters robotic telemanipulation. In *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*
Acceptance rate: 47%

- C19** Valencia, S., Pavel, A., Maria, J. S., Yu, S. G., Bigham, J. P., and **Admoni, H.** (2020). Conversational agency in augmentative and alternative communication. In *Proceedings of the ACM Annual Conference on Human Factors in Computing Systems (CHI)*
Acceptance rate: 24% **Best Paper Honorable Mention**
- C18** Aronson, R. M. and **Admoni, H.** (2019). Semantic gaze labeling for human-robot shared manipulation. In *Proceedings of the ACM Symposium on Eye Tracking Research and Applications (ETRA)*
Acceptance rate: 41%
- C17** Aronson, R. M., Santini, T., Kubler, T. C., Kasneci, E., Srinivasa, S. S., and **Admoni, H.** (2018). Eye-hand behavior in human-robot shared manipulation. In *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*
Acceptance rate: 23%
- C16** Li, S., Scalise, R., **Admoni, H.**, Srinivasa, S. S., and Rosenthal, S. (2017). Evaluating critical points in trajectories. In *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, pages 1357–1364
- C15** Pellegrinelli, S., **Admoni, H.**, Javdani, S., and Srinivasa, S. S. (2016). Human-robot shared workspace collaboration via hindsight optimization. In *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, pages 831–838
Acceptance rate: 48%
- C14** Li, S., Scalise, R., **Admoni, H.**, Srinivasa, S. S., and Rosenthal, S. (2016). Spatial references and perspective in natural language instructions for collaborative manipulation. In *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, pages 44–51
Acceptance rate: 47%
- C13** Suman, A., Marvin, R., Grigore, E. C., **Admoni, H.**, and Scassellati, B. (2016). Robots can induce mimicry in humans depending on previous behavior. In *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*
Acceptance rate: 47%
- C12** **Admoni, H.**, Weng, T., and Scassellati, B. (2016). Modeling communicative behaviors for object references in human-robot interaction. In *IEEE International Conference on Robotics and Automation (ICRA)*, pages 3352–3359
Acceptance rate: 35%
- C11** **Admoni, H.**, Weng, T., Hayes, B., and Scassellati, B. (2016). Robot nonverbal behavior improves task performance in difficult collaborations. In *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, pages 51–58
Acceptance rate: 25%
- C10** **Admoni, H.** and Scassellati, B. (2014). Data-driven model of nonverbal behavior for socially assistive human-robot interactions. In *ACM International Conference on Multimodal Interaction (ICMI)*, pages 196–199
Acceptance rate: 39%
- C9** **Admoni, H.**, Datsikas, C., and Scassellati, B. (2014). Speech and gaze conflicts in collaborative human-robot interactions. In *Annual Conference of the Cognitive Science Society (CogSci)*, pages 104–109
Acceptance rate: 41%
- C8** Nawroj, A., Toneva, M., **Admoni, H.**, and Scassellati, B. (2014). An exploration of social grouping in robots: Effects of behavioral mimicry, appearance, and eye gaze. In *Annual Conference of the Cognitive Science Society (CogSci)*, pages 1060–1065
Acceptance rate: 41%

- C7 Admoni, H.**, Dragan, A., Srinivasa, S. S., and Scassellati, B. (2014). Deliberate delays during robot-to-human handovers improve compliance with gaze communication. In *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, pages 49–56
Acceptance rate: 24%
- C6 Admoni, H.**, Hayes, B., Feil-Seifer, D., Ullman, D., and Scassellati, B. (2013). Are you looking at me? Perception of robot attention is mediated by gaze type and group size. In *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, pages 389–396
Acceptance rate: 25%
- C5 Admoni, H.**, Hayes, B., Feil-Seifer, D., Ullman, D., and Scassellati, B. (2013). Dancing with myself: The effect of majority group size on perceptions of majority and minority robot group members. In Knauff, M., Pauen, M., Sebanz, N., and Wachsmuth, I., editors, *Annual Conference of the Cognitive Science Society (CogSci)*, pages 1708–1713
- C4 Admoni, H.** and Scassellati, B. (2012). A multi-category theory of intention. In Miyake, N., Peebles, D., and Cooper, R. P., editors, *Annual Conference of the Cognitive Science Society (CogSci)*, pages 1266–1271
- C3 Admoni, H.**, Bank, C., Tan, J., and Toneva, M. (2011). Robot gaze does not reflexively cue human attention. In Carlson, L., Hölscher, C., and Shipley, T., editors, *Annual Conference of the Cognitive Science Society (CogSci)*, pages 1983–1988
- C2 Aaron, E.**, Mendoza, J.-P., and **Admoni, H.** (2011). Integrated dynamical intelligence for interactive embodied agents. In *Proceedings of the International Conference on Agents and Artificial Intelligence (ICAART)*
Acceptance rate: 27%
- C1 Aaron, E.** and **Admoni, H.** (2009). A framework for dynamical intention in hybrid navigating agents. In *Proceedings of the International Conference on Hybrid Artificial Intelligence Systems (HAIS)*, volume LNCS 5572, pages 218–225
Acceptance rate: 41%

Peer-Reviewed Workshop and Short Papers

- W16 Silvera, G.**, Biswas, A., and **Admoni, H.** (2022). DReyeVR: Democratizing driving simulation in virtual reality for behavioural and interaction research. In *Short Contributions to ACM/IEEE International Conference on Human-Robot Interaction (HRI)*
- W15 Taylor, A.**, Mamantov, E., and **Admoni, H.** (2021). Wait wait, nonverbally tell me: Legibility for use in restaurant navigation. In *Workshop on Social Robot Navigation at Robotics: Science and Systems (RSS)*
- W14 Koppol, P.**, **Admoni, H.**, and Simmons, R. (2020). Iterative interactive reward learning. In *Participatory Approaches to Machine Learning Workshop at ICML*
- W13 Taylor, A.** and **Admoni, H.** (2020). Now you see it: The effect of multiple audience perspectives on path legibility. In *Workshop on AIxFood at International Joint Conferences on Artificial Intelligence (IJCAI)*
- W12 Baikovitz, A.**, Duffy, J., Sussman, Z., Newman, B. A., and **Admoni, H.** (2019). In-sight: Tension-based haptic feedback to improve navigation for people who are blind. In *Workshop on Hacking Blind Navigation at CHI*
- W11 Aronson, R. M.** and **Admoni, H.** (2018). Gaze for error detection during human-robot shared manipulation. In *Towards a Framework for Joint Action Workshop at Robotics: Science and Systems (RSS)*

- W10** Biswas, A., **Admoni, H.**, and Steinfeld, A. (2018). Human torso pose forecasting in the real world. In *Multimodal Perception and Control Workshop at Robotics: Science and Systems (RSS)*
- W9** Chen, L., **Admoni, H.**, and Dubrawski, A. (2018). Toward a companion robot fostering perseverance in math-a pilot study. In *HRI for Learning Workshop at HRI*
- W8** **Admoni, H.** and Srinivasa, S. S. (2016). Predicting user intent through eye gaze for shared autonomy. In *Proceedings of the AAAI Fall Symposium: Shared Autonomy in Research and Practice*, pages 298–303. AAAI Press
- W7** Holladay, R., Herlant, L., **Admoni, H.**, and Srinivasa, S. S. (2016). Visibility optimization in manipulation tasks for a wheelchair-mounted robot arm. In *RO-MAN Workshop on Human-Oriented Approaches for Assistive and Rehabilitation Robotics (HUMORARR)*
- W6** **Admoni, H.** and Scassellati, B. (2015). Eye gaze in collaborative human-robot interaction. In *Proceedings of the Human Robot Teaming Workshop at HRI*
- W5** **Admoni, H.** and Scassellati, B. (2014). Nonverbal behavior modeling for socially assistive robots. In *Proceedings of the AAAI Fall Symposium: Artificial Intelligence and Human-Robot Interaction (AI-HRI)*. AAAI Press
- W4** **Admoni, H.** and Scassellati, B. (2014). The role of robots in socially assistive applications. In *Proceedings of the Rehabilitation and Assistive Robotics Workshop at IROS*
- W3** **Admoni, H.** and Scassellati, B. (2014). Demo: Toward a data-driven generative behavior model for human-robot interaction. In *Proceedings of the Workshop on Mobile Augmented Reality and Robotic Technology-Based Systems (MARS) at MobiSys*, pages 19–20
- W2** **Admoni, H.** and Scassellati, B. (2012). Robot gaze is different from human gaze: Evidence that robot gaze does not cue reflexive attention. In *Proceedings of the “Gaze in Human-Robot Interaction” Workshop at HRI*
- W1** Aaron, E. and **Admoni, H.** (2009). Approaches to learning for hybrid dynamical cognitive agents. In *Proceedings of the International Workshop on Hybrid Control of Autonomous Systems (HYCAS)*, pages 83–90

Theses

- T3** Admoni H. 2016. Nonverbal Communication in Socially Assistive Human-Robot Interaction. PhD thesis, Yale University.
- T2** Admoni H. 2009. Demonstrations of Dynamical Intention for Hybrid Agents. Master’s thesis, Wesleyan University.
- T1** Admoni H. 2008. Decision Making and Learning in Hybrid Dynamical Agents. Undergraduate Honors thesis, Wesleyan University.

TEACHING

16-867: Human-Robot Interaction (graduate) Carnegie Mellon University	2017–2021
16-467: Human-Robot Interaction (undergraduate) Carnegie Mellon University	2018, 2020–2021
16-843: Manipulation Algorithms (graduate) Carnegie Mellon University <i>co-taught with Dr. Katharina Muelling</i>	2016

INVITED TALKS

Select talks from the last 5 years

PittCyber Forbes Corridor Colloquium, Pittsburgh, PA (virtual)	Oct 2021
University of Washington Robotics Colloquium, Seattle, WA (virtual)	June 2021
Learning for Caregiving Workshop, ICRA 2021 (virtual)	June 2021
Digital Futures Fly-high Fika Seminar, KTH (virtual)	Jan 2021
IROS Workshop “Robotic Food Manipulation Challenge” (virtual)	Oct 2020
RSS Workshop “Good Citizens of Robotics Research” (virtual)	July 2020
CMU Alumni Association, Pittsburgh, PA	Feb 2020
HCII Seminar, CMU	Jan 2020
World Economic Forum Annual Meeting, Davos, Switzerland	Jan 2020
ARCS Foundation Winter Lecture, CMU	Jan 2020
Brigham Young University Computer Science Colloquium	Jan 2020
University of Washington Robotics Colloquium, Seattle, WA	Dec 2019
National Robotics Roadmapping Workshop at UMass Lowell, Lowell, MA	Nov 2019
Facebook–CMU Robotics Benchmarking Workshop, Pittsburgh, PA	Aug 2019
Sony Research & Development, Tokyo, Japan	Aug 2019
EmTech Next Conference at MIT	June 2019
Stony Brook Medical Center Geriatrics Grand Rounds, Stony Brook, NY	April 2019
CMU Distinguished Lecture: Teruko Yata Memorial Lecture in Robotics, Pittsburgh, PA	April 2019
City of Asylum Panel on AI and Ethics, Pittsburgh, PA	April 2019
Nara Institute of Science and Technology, Nara, Japan	Mar 2019
Dagstuhl Seminar #19081 on HRI and Verification, Dagstuhl, Germany	Feb 2019
Xi’an Jiaotong-Liverpool University, Suzhou, China	Dec 2018
Central China Normal University, Wuhan, China	Dec 2018
Culinary Institute of America’s reThink Food Conference, Napa Valley, CA	Nov 2018
CMU Tepper School of Business, Intersect@CMU Conference	Sept 2018
University of Washington & Microsoft Research Summer Institute on Social Robotics	July 2018
CMU Board of Trustees Meeting, San Francisco, CA	Feb 2018
Pittsburgh Girls of Steel FIRST Robotics Club	Dec 2017
University of Southern California, Computer Science Colloquium	Oct 2017
CMU Robotics Institute Seminar	Sept 2017
Robotics: Science and Systems Women in Robotics Workshop	July 2017
Cornell University	April 2017
Technion–Israel Institute of Technology (Israel)	Mar 2017
Bar Ilan University (Israel)	Mar 2017
Tel Aviv University (Israel)	Mar 2017
Hebrew University (Israel)	Mar 2017
Cornell Tech (NYC)	Mar 2017
Carnegie Mellon University	Mar 2017
Georgia Institute of Technology	Feb 2017
CMU Capacity Building for Accessibility Workshop	Nov 2016
Rensselaer Polytechnic Institute (RPI), EECS Colloquium	Oct 2016
University of Washington, Robotics Colloquium	April 2016

MENTORING

Current PhD students

Reuben Aronson (RI) <i>Assistive Manipulation Through Intent Recognition</i>	2017–
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Abhijat Biswas (RI) <i>Eye Gaze for Intelligent Driving Assistance</i>	2019–
Maggie Collier (RI) <i>Human-Centered Assistive Robots</i> NDSEG Fellowship	2019–
Pallavi Koppol (CSD) <i>Interactive Learning Using Human Feedback</i> (co-advised with Reid Simmons)	2018–
Michael Lee (RI) <i>Assessing and Communicating Robot Self-Competency</i> (co-advised with Reid Simmons)	2018–
Benjamin Newman (RI) <i>Multimodal Intent Recognition for Assistive HRI</i> (co-advised with Kris Kitani)	2017–
Ada Taylor (RI) <i>Intent Prediction from Social Signaling</i> NSF Graduate Research Fellowship	2018–
Stephanie Valencia-Valencia (HCII) <i>Conversational Agency with AACs</i> (co-advised with Jeffrey Bigham)	2017–
Michelle Zhao (RI) <i>Adaptable AI Coaching</i> (co-advised with Reid Simmons)	2020–
Current Masters students	
Patrick Callaghan (RI) <i>Learning Manipulation Skills from Humans</i> (co-advised with Oliver Kroemer)	2021–
Current Undergraduate students	
George Yu, CMU, CMU SURF award	2021–
Gustavo Silvera, CMU (<i>Publications: J12, W16</i>)	2020–
Karen Zhang, CMU	2020–
PhD Thesis Committee	
Xuning Yang, CMU	2022
Anahita Mohseni Kabir, CMU	2020
Kim Baraka, CMU	2019
PhD Qualifier Committee	
Rui Chen, CMU	2022
Ravi Pandya, CMU	2022
Kate Shih, CMU	2022
Roshni Kaushik, CMU	2021
Xuning Yang, CMU	2019
Masters Thesis Committee	

Michael Tasota, CMU	2021
Samantha Speer, CMU	2020
Travers Rhodes, CMU	2019

Past Masters students

Sarthak Ahuja (RI) <i>Assessing Robot Self-Competence</i> (co-advised with Aaron Steinfeld)	2018–2020
Yaxin Hu (Computational Design) <i>Social Robots for Artistic Creativity</i>	2019–2020
Abhijat Biswas, MSR <i>Markerless 3D Human Pose Forecasting</i> , (co-advised with Aaron Steinfeld)	2017–2019
Zhiqian (Calvin) Qiao, MS ECE <i>Intelligent Control for Assistive Manipulators</i>	2018–2019
I-Chen Jwo, Ting-Che Lin, Jiahong Ouyang, Karsh Tharyani, Yang Yang (MRSD student team) <i>Assistive Intent Recognition and Manipulation</i>	2017–2018

Past Undergraduate students

Michael Huang, CMU, SRC URO award	2019–2021
Jared Santa Maria, CMU (<i>Publications: C19</i>)	2019–2021
Carolyn Youstra, CMU	2020–2021
Meghna Behari, Allegheny North High School	2020
Ellen Mamantov, Carlton College (<i>Publications: W15</i>)	2020
Kathleen Medill, RI Summer Scholars Program	2020
Vignesh Rajmohan, RI Summer Scholars Program	2020
Minji Kim, CMU	2019–2020
Alexander Baikovitz, CMU (<i>Publications: W12</i>), SURG-SURG/CW award	2018–2020
Zachary Sussman, CMU (<i>Publications: W12</i>), SURG-SURG/CW award	2018–2019
Nadia AlMutlak, RI Summer Scholars Program	2019
Siddharth Girdhar, CMU (<i>Publications: W13</i>)	2019
John Duffy, CMU (<i>Publications: W12</i>), SURG-SURG/CW award	2019
Roman Kaufman, CMU (<i>Publications: W13</i>)	2019
Maggie Collier, RI Summer Scholars Program	2018
Yu Xiang (Billy) Zhu, CMU	2017
Rachel Holladay, CMU (<i>Publications: W7</i>)	2015–2016
Wei Parker Gu, CMU	2016
Thomas Weng, Yale (<i>Publications: C11, C12</i>), Yale CS Dept Research Award	2015
Rebecca Marvin, Yale (<i>Publications: C13</i>)	2014–2015
Apurv Suman, Yale (<i>Publications: C13</i>)	2014–2015
Natalie Warren, Yale	2014–2015
Christopher Datsikas, Yale (<i>Publications: C9</i>)	2013–2015
Daniel Ullman, Yale (<i>Publications: C6, C5</i>)	2012–2014
Mariya Toneva, Yale (<i>Publications: C3</i>)	2011
Caroline Bank, Yale (<i>Publications: C3</i>)	2011
Joshua Tan, Yale (<i>Publications: C3</i>)	2011

SERVICE

Conference Organizing Committee

International Conference on Human-Robot Interaction (HRI) Finance Co-Chair Student Volunteers Co-Chair	2019–2021 2017–2018
International Conference on Robotics and Automation (ICRA) Workshops Editor Career Fair Co-Chair	2020–2022 2017–2018
Robotics: Science and Systems (RSS) RSS Pioneers Co-Founder and Co-Chair	2017–2018
International Journal of Robotics Research (IJRR), Special Issue on HRI Co-Editor	2016

Workshop Organizing Committee

AI x Food Workshop at IJCAI 2019	2019
Mathematical Models, Algorithms, and HRI Workshop at RSS 2017	2016–2017
Human Robot Interaction Workshop at RSS 2016	2015–2016
HRI Pioneers Workshop at HRI 2013 (Program Committee Chair)	2012–2013

Program Committee

ACM/IEEE International Conference on Human-Robot Interaction (HRI)	2017–2022
Pioneers Workshop at HRI	2017–2022
International Conference on Autonomous Agents and Multiagent Systems (AAMAS)	2018–2019
International Joint Congress on Artificial Intelligence (IJCAI)	2016–2017
IEEE Symposium on Robot and Human Interactive Communication (RO-MAN)	2016
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	2016
AAAI Conference on Artificial Intelligence (AAAI)	2016

Refereeing: Grant Agencies

UW-Milwaukee's Research Growth Initiative	2019
National Science Foundation (NSF)	2016, 18–21
Paralyzed Veterans of America Research Foundation	2018

Refereeing: Conferences and Journals

Refereed since 2016.

ACM Transactions on Human-Robot Interaction (THRI)
International Journal of Social Robotics (IJSR)
International Journal of Robotics Research (IJRR)
IEEE Transactions on Robotics (T-RO)
Autonomous Robots Journal (AuRo)
IEEE Transactions on Affective Computing (TAFFC)
Robotics: Science and Systems (RSS)
ACM Conference on Human Factors in Computing Systems (CHI)
IEEE RAS/EMBS Int Conf on Biomedical Robotics and Biomechatronics (BioRob)
IEEE Transactions on Human-Machine Systems (THMS)

Late Breaking Reports at HRI
 IEEE Robotics and Automation Letters (RA-L)
 IEEE Pervasive Computing
 IEEE/RAS International Conference on Humanoid Robots (Humanoids)
 IEEE Symposium on Robot and Human Interactive Communication (RO-MAN)
 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
 ACM/IEEE International Conference on Human-Robot Interaction (HRI)
 IEEE International Conference on Robotics and Automation (ICRA)
 Interaction Studies Journal

University & Department Service

Robotics Institute PhD Admissions Committee	2020–
CMU AI4ALL Program Co-Instructor	2020–
Robotics Institute Director Search Interview Committee	2019–2020
K&L Gates Ethics and Computational Technologies Endowment Advisory Committee	2019–2020
Robotics Institute Hiring Committee	2018–2019
Robotics Institute Additional Major Selection Committee	2019
Robotics Institute Summer Scholars Selection Committee	2018
Robotics Institute Program Committee (curriculum development)	2017–

Other Service

Steering Committee, Black In Robotics Allies	2020–
Mentor, Girls of Steel FIRST Robotics Club, CMU	2017–2019

SELECTED OUTREACH

I participate in outreach events at least once a month. This list highlights a selection of representative events.

Tartan Scholars Orientation, CMU Speaker at two sessions for incoming students to CMU program that supports high achieving first year students from low-income backgrounds.	2020
AI4All Summer Program, CMU Guest speaker for a program that brings approx 30 underrepresented high school students to CMU for a three week intensive AI course.	2018–19
OurCS Workshop, CMU Led a three-day workshop for undergraduate women interested in pursuing graduate-level research	2019
Girls of Steel, CMU Mentor for all-girls FIRST Tech Challenge team at CMU, supervising weekly build sessions with about 18 middle school girls.	2017–
VisitPittsburgh booth at PCMA Convening Leaders Conference Conducted on-site interactive demonstration of assistive robot at a professional conference attended by 4,000 business event planners and managers.	2019
Founders Exposition, CMU 50th Anniversary Celebration Conducted an interactive demonstration of our multi-modal assistive robot arm platform to CMU VIPs and the public over a three-day technology fair.	2017

Family Day , DARPA Offices, Washington DC Presented our novel shared autonomy algorithms for assistive care with an interactive robot demo to approximately 700 DARPA affiliates and their guests.	2016
Capacity Building Initiative Workshop: Accessibility at CMU Helped organize a full-day workshop increasing disability awareness and highlighting resources and research for accessibility at CMU, attended by approximately 70 people from around the US.	2016

SELECTED MEDIA COVERAGE

Robohub 50 Women in Robotics You Need To Know About	2021
World Economic Form Episode on Social Robotics	2021
Kinova Robotics Innovator Spotlight	2020
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