

Elaine Schaertl Short

Clare Boothe Luce Assistant Professor
Department of Computer Science
Department of Mechanical Engineering (*secondary appointment*)
Tufts University

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APPOINTMENTS

Clare Boothe Luce Assistant Professor, Tufts University — Aug. 2019–
Postdoctoral Researcher, UT Austin — Jul. 2017 – Jun. 2019

EDUCATION

Ph.D., Computer Science, University of Southern California — August 2017
Thesis: Modeling Multi-Party Social Dynamics for Socially Assistive Robotics
Thesis Advisor: Dr. Maja Matarić

M.S., Computer Science, University of Southern California — December 2012

B.S., Computer Science, Yale University — May 2010
Senior Thesis: Using Attentional Models for Robot Gaze Patterns
Thesis Advisor: Dr. Brian Scassellati

RESEARCH EXPERTISE

Algorithmic human-robot interaction for robust and socially appropriate assistance to human users, especially users with disabilities.

HONORS AND AWARDS

- Clare Boothe Luce Professorship (2019-2024)
- Microsoft Research AI Breakthroughs Workshop (2018)
- USC Center for Robotics and Embedded Systems George Beckey Service Award (2017)
- USC Order of Areté (2017)
- USC Viterbi School of Engineering Undergraduate Research Mentoring Award (2017)
- Rising Stars in EECS Program (2016)
- USC Women in Science and Engineering (WISE) Award to Current Doctoral Students (2016)
- USC Department of Computer Science Best Research Assistant Award (2016)
- USC Department of Computer Science Best Teaching Assistant Award (2014)
- USC Department of Computer Science Service Award (2012)
- National Science Foundation Graduate Research Fellowship (2012-2015; awarded 2010)
- University of Southern California Provost's Fellowship (2010-2012)
- Viterbi School of Engineering Merit Award (2012; awarded 2010)
- Saybrook College Mary Casner Prize (2010)
- Google Anita Borg Scholarship (2009)

GRANTS AND GIFTS

- [1] NSF Broadening Participation in Computing Alliance, Award #: 2137312, “BPC-AE: AccessComputing Fourth Extension”, \$5.2M requested, PI: Ladner, Co-PIs: **Short**, Branham, Kushalnagar, Burgstahler

The goals of this BPC Alliance proposal are to (1) increase the participation of people with disabilities in computing careers and (2) serve as a catalyst and national resource to help make computing education and career opportunities more welcoming and accessible to people with disabilities.

- [2] NSF National Robotics Initiative 3.0, Award #: 2132887, “NRI: Mutually Assistive Robotics”, \$1.5M total, PI: **Short**, Co-PIs: Sinapov, Scheutz, Rogers, 1 Jan 2022 – 31 Dec 2024

This research takes a strengths-based approach to assistive robotics, developing new methods that allow the robot and user to freely assist each other to complete tasks, and evaluating those methods in activities that improve people’s quality of life and where users’ autonomy and control over both the goal and manner of completing a task are important.

- [3] Amazon Robotics Gift, “PAInTR: Personalized AR for Intuitive Teaching of Robots”, \$150K total, Co-PIs: **Short**, Sinapov, Sept 2021 – Aug 2022

The goal of this work is to enable flexible, natural tasking (and re-tasking) of mobile manipulation robots by non-expert users with minimal specific training, leveraging our expertise in augmented reality (AR) and interactive reinforcement learning (RL) to enable users to understand the sensory and cognitive state of a robot (with AR) and teach it new tasks (through interactive RL).

- [4] TeachAccess Curriculum Development Grant, “Teaching Accessibility in HRI”, \$5K total, PI: **Short**, Sept 2020 – Jun 2021

As with many technologies designed for the convenience of the general population, robots can be particularly useful for people with disabilities, but only if they are appropriately designed with accessibility in mind. This project supports the development of a module on accessible design for the Tufts class COMP 133: Human Robot Interaction, and the addition of a thread on accessible design throughout the course.

JOURNAL PUBLICATIONS

- [1] A. Allevato, **E. Short**, M. Pryor, and A. L. Thomaz. “Iterative Residual Tuning for System Identification and Sim-to-Real Robot Learning”. *Autonomous Robots*, 2020.
- [2] C. L. Bethel, M. Bruijnes, M. Jung, C. Mavrogiannis, S. Parsons, C. Pelachaud, R. Prada, L. Riek, S. Strohkorb Sebo, J. Shah, **E. Short**, M. Vázquez. “Working Group on Social Cognition for Robots and Virtual Agents”. *Dagstuhl Reports*, vol. 9, no. 10, p. 21-36, 2019.
- [3] **E. Short**, E. C. Deng, D. Feil-Seifer and M. J. Matarić. “Understanding Agency in Interactions Between Children With Autism and Socially Assistive Robots”. *Journal of Human-Robot Interaction (JHRI)*, vol. 6, no. 3, p. 21, 2017.

CONFERENCE PUBLICATIONS

- [4] S. Lo, **E. Short**, and A. L. Thomaz. “Robust Planning with Emergent Human-Like Behavior for Agents Traveling in Groups”. *IEEE International Conference on Robotics and Automation (ICRA)*, Online, 2021.
- [5] M.L. Chang, T.K. Faulkner, T.B. Wei, **E. Short**, G. Anandaraman, and A. L. Thomaz. “TASC: Teammate Algorithm for Shared Cooperation”. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Online, 2020.

- [6] M. L. Chang, Z. Pope, **E. Short**, and A. L. Thomaz. “Defining Fairness in Human-Robot Teams”. *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, Online, 2020.
- [7] A. Allevato, **E. Short**, M. Pryor, and A. L. Thomaz. “Learning Labeled Robot Affordance Models by using Simulations and Crowdsourcing”. *Robotics Science and Systems (RSS)*, Online, 2020.
- [8] S. Lo, **E. Short**, and A. L. Thomaz. “Planning with Partner Uncertainty Modeling for Efficient Information Revealing in Teamwork”. *ACM/IEEE Conference on Human-Robot Interaction (HRI)*, Cambridge, UK, 2020.
- [9] T. Kessler Faulkner, **E. Short**, and A. L. Thomaz. “Interactive Reinforcement Learning with Inaccurate Feedback”. *IEEE International Conference on Robotics and Automation (ICRA)*, Paris, France, 2020.
- [10] A. Allevato, **E. Short**, M. Pryor, and A. L. Thomaz. “TuneNet: One-Shot Residual Tuning for System Identification and Sim-to-Real Robot Task Transfer”. *Conference on Robot Learning (CORL)*, Osaka, Japan, 2019.
- [11] A. Saran, **E. Short**, A. L. Thomaz, and S. Niekum. “Understanding Teacher Gaze Patterns for Robot Learning”. *Conference on Robot Learning (CORL)*, Osaka, Japan, 2019.
- [12] T. Fitzgerald, **E. Short**, A. Goel, and A. L. Thomaz. “Human-guided Trajectory Adaptation for Tool Transfer”. *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, Montreal, Canada, 2019.
- [13] T. Kessler Faulkner, R. A. Gutierrez, **E. Short**, G. Hoffman, and A. L. Thomaz. “Active Attention-Modified Policy Shaping”. *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, Montreal, Canada, 2019.
- [14] **E. Short**, A. Allevato, and A. L. Thomaz. “SAIL: Simulation-Informed Active In-the-Wild Learning”. *ACM/IEEE Conference on Human-Robot Interaction (HRI)*, Daegu, South Korea, 2019.
- [15] T. Kessler Faulkner, **E. Short**, and A. L. Thomaz. “Policy Shaping with Supervisory Attention Driven Exploration”. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Madrid, Spain, 2018.
- [16] A. Saran, S. Majumdar, **E. Short**, A. L. Thomaz, and S. Niekum. “Human Gaze Following for Human-Robot Interaction”. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Madrid, Spain, 2018.
- [17] M. L. Chang, R. A. Gutierrez, P. Khante, **E. Short**, and A. L. Thomaz. “Effects of Integrated Intent Recognition and Communication on Human-Robot Collaboration”. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Madrid, Spain, 2018.
- [18] **E. Short**, M. L. Chang, and A. L. Thomaz. “Detecting Contingency for HRI in Open-World Environments”. *ACM/IEEE Conference on Human-Robot Interaction (HRI)*, Chicago, USA, 2018.
- [19] **E. Short** and M. J. Matarić. “Robot Moderation of a Collaborative Game: Towards Socially Assistive Robotics in Group Interactions”. *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, Lisbon, Portugal, 2017.
- [20] **E. Short**, K. Swift-Spong, S. Hyunju, K. M. Wisniewski, Z. Deanah Kim, W. Shinyi, E. Zelinski, and M. J. Matarić. “Understanding Social Interactions with Socially Assistive Robotics in Intergenerational Family Groups”. *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, Lisbon, Portugal, 2017.

- [21] K. Swift-Spong, **E. Short**, E. Wade, and M. J. Matarić. “Effects of Comparative Feedback from a Socially Assistive Robot on Self-Efficacy in Post-Stroke Rehabilitation”. *IEEE International Conference on Rehabilitation Robotics*, Singapore, 2015.
- [22] **E. Short**, K. Swift-Spong, J. Greczek, A. Ramachandran, A. Litoiu, E. C. Grigore, D. Feil-Seifer, S. Shuster, J. J. Lee, S. Huang, S. Levonisova, S. Litz, J. Li, G. Ragusa, D. Spruijt-Metz, M. J. Matarić, and B. Scassellati. “How to Train Your DragonBot: Socially Assistive Robots for Teaching Children about Nutrition through Play”. *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)*, Edinburgh, Scotland, 2014.
- [23] **E. Short**, J. Hart, M. Vu, and B. Scassellati. “No fair!! An Interaction with a Cheating Robot”. *ACM/IEEE Conference on Human-Robot Interaction (HRI)*, Osaka, Japan, 2010.
- [24] J. Kast, J. Neuhaus, F. Nickel, H. Kenngott, M. Engel, **E. Short**, M. Reiter, H.-P. Meinzer, and L. Maier-Hein. “Der Telemanipulator daVinci als mechanisches Trackingsystem Bestimmung von Präzision und Genauigkeit”. *Bild. für die Medizin: Algorithmen-Systeme-Anwendungen*, Heidelberg, Germany, 2009.

REFEREED WORKSHOPS, POSTER PAPERS, AND ABSTRACTS

- [25] H. Yu and **E. Short**. “Active Feedback Learning with Rich Feedback”. *Companion of the ACM/IEEE Conference on Human-Robot Interaction (HRI): Late-Breaking Reports*, Online, 2021.
- [26] I.S. Sheidlower and **E. Short**. “When Oracles Go Wrong: Using Preferences as a Means to Explore”. *Companion of the ACM/IEEE Conference on Human-Robot Interaction (HRI): Late-Breaking Reports*, Online, 2021. **Best LBR Nominee**.
- [27] J. Staley and **E. Short**. “Contingency Detection in Multi-Agent Interactions”. *Companion of the ACM/IEEE Conference on Human-Robot Interaction (HRI): Late-Breaking Reports*, Online, 2021.
- [28] A. Cleaver, D.V. Tang, V. Chen, **E. Short**, and Jivko Sinapov. “Dynamic Path Visualization for Human-Robot Collaboration”. *Companion of the ACM/IEEE Conference on Human-Robot Interaction (HRI): Late-Breaking Reports*, Online, 2021.
- [29] A. Cleaver, F. Muhammad, A. Hassan, **E. Short**, and J. Sinapov. “SENSAR: A Visual Tool for Intelligent Robots for Collaborative Human-Robot Interaction”. *AAAI Fall Symposium*, Online, 2020.
- [30] H. Yu and **E. Short**. “Learning with Dynamic Feedback”. *Robotics Science and Systems (RSS), Workshop on Closing the Academia to Real-World Gap in Service Robotics*, Online, 2020.
- [31] S. Lo, **E. Short**, and A. L. Thomaz. “Robust Following with Hidden Information in Travel Partners”. *International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Conference Abstract*, Online, 2020.
- [32] A. Cleaver, **E. Short**, and J. Sinapov. “R.A.I.N. - A Vision Calibration Tool using Augmented Reality”. *ACM/IEEE Conference on Human-Robot Interaction (HRI), Workshop on Virtual, Augmented and Mixed-Reality for Human-Robot Interaction (VAM-HRI)*, Online, 2020.
- [33] A. Allevato, **E. Short**, M. Pryor, and A. L. Thomaz. “Learning A Human-Centered Representation of Robot Affordance Models”. *Robotics Science and Systems (RSS), Workshop on Combining Learning and Reasoning*, Freiburg im Briesgau, Germany, 2019.
- [34] A. Allevato, **E. Short**, M. Pryor, and A. L. Thomaz. “TuneNet: One-Shot Residual Tuning for System Identification and Sim-to-Real Robot Task Planning”. *Robotics Science and Systems (RSS), Workshop on Closing the Reality Gap in Sim2real Transfer for Robotic Manipulation*, Freiburg im Briesgau, Germany, 2019.

- [35] T. Kessler Faulkner, **E. Short**, and A. L. Thomaz. “Towards Active Attention-Modified Policy Shaping”. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Workshop on Human/Robot In-the-Loop Machine Learning*, Madrid, Spain, 2018.
- [36] R. A. Gutierrez, **E. Short**, S. Niekum, and A. L. Thomaz. “Towards Online Learning from Corrective Demonstrations”. *AAAI Fall Symposium, Learning in Artificial Intelligence for Human-Robot Interaction*, Arlington, USA, 2018.
- [37] R. A. Gutierrez, V. Chu, **E. Short**, S. Niekum, and A. L. Thomaz. “Understanding Task Decomposition of Keyframe Demonstrations”. *ACM/IEEE Conference on Human-Robot Interaction (HRI), Workshop on Explainable Robotics Systems*, Chicago, USA, 2018.
- [38] M. L. Chang, **E. Short**, and A. L. Thomaz. “Inference of Human Policies for Ad Hoc Human-Robot Teams”. *ACM/IEEE Conference on Human-Robot Interaction (HRI), Workshop on Longitudinal Human-Robot Teaming*, Chicago, USA, 2018.
- [39] **E. Short** and M. J. Matarić. “Towards Socially Assistive Robotics for Inter-Generational Family Groups”. *ACM Conference on Computer-Supported Cooperative Work (CSCW), Workshop on Robots in Groups and Teams*, Portland, USA, 2017.
- [40] **E. Short** and M. J. Matarić. “Towards Autonomous Moderation of an Assembly Game”. *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), Workshop on Group Human-Robot Interaction*, New York, NY, 2016.
- [41] **E. Short** and M. J. Matarić. “Socially Assistive Robot Moderators: Validation and Future Directions”. *International Joint Conference on Artificial Intelligence (IJCAI), Doctoral Consortium*, New York, USA, 2016.
- [42] **E. Short**, K. Sitting-Boyd, and M. J. Matarić. “Modeling Moderation for Multi-Party Socially Assistive Robotics”. *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), Poster Abstract*, New York, USA, 2016.
- [43] **E. Short** and M. J. Matarić. “Multi-Party Socially Assistive Robotics: Defining the Moderator Role”. *Robotics Science and Systems (RSS), Women in Robotics Workshop*, Rome, Italy, 2015.
- [44] **E. Short** and M. J. Matarić. “Towards Robot Moderators: Understanding Goal-Directed Multi-Party Interactions”. *AAAI Fall Symposium, Human-Robot Interaction*, Arlington, USA, 2015.
- [45] **E. Short** and M. J. Matarić. “Understanding Interaction Dynamics in Socially Assistive Robotics with Children with ASD”. *International Meeting for Autism Research (IMFAR), Poster Abstract*, Salt Lake City, USA, 2015.
- [46] K. Swift-Spong, **E. Short**, and M. J. Matarić. “Effects of Comparative Feedback from a Socially Assistive Robot on Self-Efficacy in Post-Stroke Rehabilitation”. *IEEE International Conference on Robotics and Automation (ICRA), Workshop on Rehabilitation Robotics and Human-Robot Interaction*, Seattle, USA, 2015.
- [47] **E. Short** and M. J. Matarić. “Interaction Between Children with ASDs and a Socially Assistive Robot: A Preliminary Analysis”. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Workshop on Assistive Robotics for Individuals with Disabilities: HRI Issues & Beyond*, Chicago, USA, 2014.
- [48] **E. Short**, K. Swift-Spong, J. Greczek, M. J. Matarić., G. Ragusa, and D. Spruijt-Metz. “How to Train Your DragonBot: Socially Assistive Robots for Teaching Children About Nutrition Through Play”. *International Society for Behavioral Nutrition and Physical Activity (ISBNPA), Short Oral Presentation*, San Diego, USA, 2014.

- [49] J. Greczek, **E. Short**, C. E. Clabaugh, K. Swift-Spong, and M. J. Matarić. “Socially Assistive Robotics for Personalized Education for Children”. *AAAI Fall Symposium, Human-Robot Interaction*, Arlington, USA, 2014.
- [50] **E. Short**, D. Feil-Seifer, and M. J. Matarić. “A Comparison of Machine Learning Techniques for Modeling Human-Robot Interaction with Children with Autism”. *ACM/IEEE Conference on Human-Robot Interaction (HRI), Poster abstract*, Osaka, Japan, 2010.
- [51] E. S. Kim, D. Leyzberg, **E. Short**, R. Paul, and B. Scassellati. “Rich Spontaneous, Social Engagement with a Dinosaur Robot”. *International Meeting for Autism Research (IMFAR), Poster abstract*, Chicago, USA, 2009.

TECHNICAL REPORTS

- [52] **E. Short**, D. Short, Y. Fu, and M. J. Matarić. “SPRITE: Stewart Platform Robot for Interactive Tabletop Engagement”. *USC Department of Computer Science Technical Report*, 2017.

INVITED TALKS

Keynote Talks

“Smart Robot Helpers: Interactive Machine Learning for Service and Assistive Robotics”. OurCS @ AccessComputing, Keynote Talk. Online, January 2021.

Seminar Talks

“Intelligent Assistive Agents and Robust Robot Learning: Research at the Assistive Agent Behavior and Learning Lab”. University of Nevada, Reno Department of Computer Science. Online, April 2021.

“Intelligent Assistive Agents and Robust Robot Learning: Research at the Assistive Agent Behavior and Learning Lab”. General Dynamics ERG for People with Disabilities. Online, January 2021.

“Robust Assistive Human-Robot Interaction”. NVIDIA Robotics Research Laboratory. Seattle, WA, September 2018.

“Robust Assistive Human-Robot Interaction”. University of Washington Department of Computer Science. Seattle, WA, September 2018.

“Socially Assistive Robotics: Hands-Off Human-Robot Interaction for Health, Wellness, and Education”. Rochester University Computer Science Department. Rochester, NY, October 2015.

“Socially Assistive Robotics: Hands-Off Human-Robot Interaction for Health, Wellness, and Education”. Washington State University Gerontechnology Program. Pullman, WA, March 2014.

Guest Lectures

“Intelligent Assistive Agents and Robust Robot Learning: Research at the Assistive Agent Behavior and Learning Lab”. *Human-Computer Interaction*, Wellesley College. Online, May 2021.

“Intelligent Assistive Agents and Robust Robot Learning: Research at the Assistive Agent Behavior and Learning Lab”. *Human-Robot Interaction*, Carnegie Mellon University. Online, May 2021.

“Assistive Agent Behavior and Learning”. *Coding 101*, Tufts University College. Online, July 2020.

“Human-in-the-Loop Learning for Robotics”. *Reinforcement Learning*, Tufts Computer Science Department. Medford, MA, October 2019.

“Sensing for Human-Robot Interaction”. *Human Activity Sensing and Recognition*, UT Austin ECE Department. Austin, TX, October 2018.

“Socially Assistive Robotics”. *Human-Robot Interaction*, UT Austin ECE Department. Austin, TX, November 2017.

“Socially Assistive Robotics: Hands-Off Human-Robot Interaction for Health, Wellness, and Education”. *Technology Design for Older Adults*, USC Department of Gerontology. Los Angeles, CA, April 2016.

“Socially Assistive Robotics: Hands-Off Human-Robot Interaction for Health, Wellness, and Education”. *Interaction Design*, Harvey Mudd Department of Computer Science. Claremont, CA, February 2016.

“Socially Assistive Robotics”. *Introduction to Robotics*, USC Department of Computer Science. Los Angeles, CA, October 2013.

MEDIA AND OUTREACH

Media & Public Events

Lightbulb Moment Podcast, December 2020

Panelist, “AnitaB.org Presents Elevating Conversations: The Accessible Future of Tech”, August 2020

BBC Newshour, “[C]an robots learn to understand the niceties of social interaction?”, March 2018

Women in Robotics Interview, LinkedIn Pulse, Dec. 2016.

Psychiatric News Interview, September 2015

Intel STAY WITH IT project interview, July 2013

Undergraduate Outreach & Group Mentoring

Mentoring session, DREU and Tufts Summer REU Students, “How to Apply to Grad School”, July 2021

Guest speaker, Bridge to Engineering Success at Tufts (BEST), “Introduction to the CS Major”, July 2020, July 2021

Guest speaker, Tufts Robotics Club, February 2021

Session host for 3 small-group robotics research activities, OurCS@AccessComputing+CREATE, January 2021

Guest speaker, Tufts Emerging Scholars Program, December 2020

Tufts Girls in STEM Womxn in Tech Panel, December 2020

Tufts Engineering Open House Presentations, Fall 2019

Presentation to USC Chapter Psi Chi International Honor Society in Psychology, November 2015.

K-12 Outreach

UTCS Robotics Camp Presentation and Demonstration, July 2018.

USC Robotics Open House, Yearly, 2010-2017.

Monterey Hills Elementary Robotics Demonstration, April 2013.

Other Outreach

Interactive demonstration for *The USC Morton Kesten Summit; Aging in Homes and Neighborhoods Today: The State of the Art on Research, Programs, and Future Directions*, October 2016.

Interactive demonstration for *What’s Hot in Aging Research at USC* conference, April 2016.

LEADERSHIP

Leadership Positions

Tufts CS Justice, Equity, Diversity, and Inclusion (JEDI) Committee, Vice Chair — Fall 2021 - present

AccessComputing, Leadership Corps — Summer 2021-present

Access SIGCHI, Communications Chair — Nov 2019-present

Tufts University

Tufts Diversity Fund Committee, Member — Fall 2021 - present
Tufts CS JEDI Committee, Member — Fall 2019 - Fall 2021
HRI Program Committee, Member — Fall 2019, Fall 2021 - present
AccessComputing, Department Representative — Nov 2019 - present

Conference Organizing and Program Committees

2022 ACM/IEEE Conference on Human-Robot Interaction, Accessibility Chair
2021 ACM/IEEE Conference on Human-Robot Interaction, Accessibility Chair
2021 ACM/IEEE Conference on Human-Robot Interaction, Area Chair
2021 CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing, Deputy Scholarship Chair
2020 Conference on Robot Learning, Area Chair

PROFESSIONAL SERVICE

Professional Society Memberships

Association for Computing Machinery (ACM)
Institute of Electrical and Electronics Engineers (IEEE)
Association for the Advancement of Artificial Intelligence (AAAI)

Reviewing

Grants/Federal Agencies: US National Science Foundation (Panel Member), Air Force Office of Scientific Research (External Reviewer)

Journals: International Journal of Robotics Research (IJRR), Autonomous Robots (AURO), Journal of Human-Robot Interaction (JHRI)/Transactions on Human-Robot Interaction (THRI), Human-Computer Interaction (HCI), Journal of Social Robotics (SORO), IEEE Journal of Biomedical and Health Informatics (J-BHI), Reviews in Biomedical Engineering (RBME), Transactions on Affective Computing (TAFFC), Cognitive Systems (CogSys), Transactions on Accessibility (TACCESS)

Conferences: IEEE/RSJ Int. Conference on Intelligent Robots and Systems (IROS), ACM CHI Conference on Human Factors in Computing Systems (CHI), ACM/IEEE Conference on Human-Robot Interaction (HRI), IEEE Int. Conference on Robotics and Automation (ICRA), IEEE Int. Symposium on Robot and Human Interactive Communication (RO-MAN), Int. Conference on Rehabilitation Robotics (ICORR), AAAI Conference on Artificial Intelligence (AAAI), Int. Conference on Autonomous Agents and Multiagent Systems (AAMAS)

Invitation-Only Events, Workshops, and Seminars

Robotics Roadmap Workshop, Amherst, MA — Nov 2019
Dagstuhl Seminar, Social Agents for Teamwork and Group Interactions, Wadern, Germany — Oct 2019

Service as a Graduate Student

USC Dept. of Computer Science PhD Student Committee, Member — Sept. 2012-Fall 2013
USC PhD Women in Computer Science Coffee Group, Co-Founder — Spring 2010-Spring 2012

TEACHING

Tufts University

*Accessibility Module for HRI courses – Fall 2020 (*publicly available*)
COMP 133: Human-Robot Interaction — Fall 2020, 2021

*COMP 150/ME 193: Assistive Algorithms — Spring 2020, 2021

*COMP 150/ME 149: Social Assistive Robots — Fall 2019

University of Southern California

Fall 2013-Spring 2014 — *Introduction to Computing (Teaching Assistant)

**New course*

MENTORING

Tufts PhD Students:

Jindan Huang (2020 –), Isaac Sheidlower (Aug. 2020 –), James Staley (Jun. 2020 –), Hang Yu (Jan. 2020 –), Andre Cleaver (Jan. 2020 –)

Tufts MS Students:

Yuye Jiang (**PhD program at UW Madison**) (Aug. 2020-May 2020), Hang Yu (**PhD program at Tufts University**) (Jan. 2020-Jan 2021)

Tufts Undergraduate Students:

Walter Wagude (July 2021-), Tom Williams (June 2021-), Allison Moore (Jun. 2020-)

CRA-W Distributed Research Experience for Undergraduates (DREU) Program:

Thuy Vy Tran (Summer 2021), Brianna Wimer (**PhD Program at Notre Dame University**) (Summer 2020)

Short-term and Conference-Based Mentoring Programs

Nicole Sullivan (AAAI Undergraduate Consortium, Fall 2021)

Committee Memberships

Taylor Kessler Faulkner (Dissertation Committee Member, January 2020), Ramtin Hosseini (Qualifying Exam Committee Member, December 2020), Gyan Tatiya (Qualifying Exam Committee Member, December 2020)

Tufts Code for Good and Capstone Project Groups:

PDF Accessibility (4 Students, Summer 2020), PDF Accessibility (3 Students; 1 woman, Fall 2020-Spring 2021)

UT Austin SIM Lab PhD Mentees & Co-Authors:

Adam Allevato (2017-2020), Taylor Kessler Faulkner (2017-), Alex Gutierrez (2017-2019), Tesca Fitzgerald (2017-2019), Mai Lee Chang (2017-2019), Akanksha Saran (2017-2019), Shih-Yun Lo (2018-2019), Priyanka Khante (2017-2018)

USC & UT, Undergraduate and MS Researchers:

Srinjoy Majumdar (UT Research Assistant, Fall 2017-Summer 2019) Zach Pope (UT Research Assistant, Fall 2017-Summer 2019), Carson Graf (UT Research Assistant, Fall 2017-Spring 2018), Rhianna Lee (UCLA Post-Baccalaureate Pre-Med Student, 2014-2017), Katya Borgos Rodriguez (**PhD Program at Northwestern University**) (USC Summer Undergraduate Research Experience (SURE) Program, Summer 2016), Priscilla Tai (CRA-W DREU Program, Summer 2016), Kara Douville (USC Summer Undergraduate Research Experience (SURE) Program, Summer 2016), USC Computer Science Capstone Projects: “Socially Assistive Robotics” (11 students total, 2 women, Spring-Fall 2016), Yifeng Fu (USC Research Assistant, Summer 2016), Shayna Goldberger (USC URAP, Fall 2015-Spring 2016), Eric Deng (USC Research Assistant, Fall 2015-Spring 2017), Ben Lee (USC Research Assistant, Fall 2015-Spring 2016), Katherine Sitting-Boyd (CRA-W DREU Program, Summer 2015), Sharon Cohen (USC Research Assistant, Fall 2014-Spring 2015), Renuka Fernandes (USC Research Assistant, Spring 2014-Fall 2014), Andres Engels (USC Merit Research Scholar, Fall 2013-Spring 2014), Christine Nagy (Research Assistant, Fall 2013), Callie Clement (CRA-W DREU Program, Summer 2013), Samuel Shuster (USC Computer Science MS Student, Oct. 2012-Dec. 2013), Ani Misirian (USC Research Assistant, Spring 2012-Fall 2013), Emerick Varga (USC Research Assistant, Fall 2012-Spring 2013), Linde Liu (CRA-W DREU

Program, Summer 2012), Tarun Atrey (USC Computer Science MS Student, Fall 2012), Andrea Lawler (WiSE Undergraduate Research Fellow, Fall 2011-Spring 2012), Farva Jafri (USC MPH Student, Spring 2011)

USC & UT, High School Researchers:

Soojung Choi (Marlborough School Honors Research in Science Program (High School), Summer 2015-Spring 2016) Walter Schaertl (Visiting Student, Summer 2014) Clara Collier (Marlborough School Honors Research in Science Program (High School), Summer 2013) Rogelio Quintana (Engineering Health Academy Program at Bravo Medical Magnet High School, Summer 2012-Spring 2013) Josefina Duran (Engineering Health Academy Program at Bravo Medical Magnet High School, Fall 2011-Spring 2012)