

Angelique M. Taylor

Computer Science and Engineering
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Research Interests: Artificial Intelligence, Human-Robot Interaction, Computer Vision, Robotics, and Health Informatics

Academic Appointments	Ph.D., Computer Science and Engineering	June 2021
	University of California San Diego, San Diego, CA Human-Robot Teaming in Safety-Critical Environments - Perception of and Interaction with Groups Research Advisor: Dr. Laurel D. Riek	
	B.S., Electrical Engineering	May 2015
	University of Missouri, Columbia, MO Research Advisor: Dr. Alina Zare	
	B.S., Computer Engineering	May 2015
	University of Missouri, Columbia, MO Research Advisor: Dr. Alina Zare	
	A.S., Engineering Science	May 2012
	Saint Louis Community College at Florissant Valley, Saint Louis, MO	
Awards and Honors	Microsoft Research Dissertation Grant [10 selected out of 300]	2019
	National Science Foundation Graduate Research Fellowship (NSF-GRFP) [11% acceptance rate]	2016
	Google Anita Borg Memorial Scholarship [10 selected across all of North America]	2016
	National Women in IT Collegiate Award – Grand Prize Winner	2021
	National Women in IT Collegiate Award – Honorable Mention	2019
	Arthur J. Schmitt Leadership in Science and Engineering Fellowship	2015
	National GEM Consortium Fellowship	
	Best Paper Honorable Mention, ACM Computer Supported Cooperative Work [top 5% of submissions]	2019
	UC San Diego Doctoral Award for Excellence in Service/Leadership	2018
	Grace Hopper Celebration of Women in Computing Scholarship (GHC)	2017
ROSCon 2018 Diversity Scholarship	2018	
D. E. Shaw Exploration Fellowship	2019	

Publications

Refereed Conference and Journal Publications

13. **Taylor, A.** and Riek, L.D. (2022) “REGROUP: A Robot-Centric Group Detection and Tracking System.” In Proc. of the 17th Annual ACM/IEEE Conference on Human Robot Interaction (HRI). [Acceptance rate: 24.8%]
12. **Taylor, A.,** Matsumoto S., Xiao, W., and Riek, L.D. (2021) “Social Navigation for Mobile Robots in the Emergency Department.” In Proc. of International Conference on Robotics and Automation (ICRA).
11. **Taylor, A.,** Matsumoto, S., and Riek, L.D. (2020). “Situating Robots in the Emergency Department.” AAAI Spring Symposium on Applied AI in Healthcare: Safety, Community, and the Environment.
10. **Taylor, A.,** Chan, D., and Riek, L.D. (2020) “Robot-Centric Perception of Human Groups.” ACM Transactions on Human-Robot Interaction (THRI), 9(3), pp.1-21.
9. **Taylor, A.,** Lee, H., Kubota, A., and Riek, L.D. (2019). “Coordinating Clinical Teams: Using Robots to Empower Nurses to Stop the Line.” In Proc. of ACM Computer Supported Cooperative Work (CSCW). [Acceptance Rate: 30%]
Best Paper Award Honorable Mention
8. Chan, D., **Taylor, A.,** and Riek, L.D. (2017). “Faster Robot Perception Using Salient Depth Partitioning.” In Proc. of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). pp. 1-6.
7. **Taylor, A.** and Riek, L.D. (2016). “Robot Perception of Human Groups in the Real World: State of the Art.” In Proc. of the AAAI Fall Symposium on Artificial Intelligence in Human-Robot Interaction (AI-HRI).
6. Lobzhanidze, A., Gentry, P., **Taylor, A.,** Zeng, W. (2013) “Mainstream Media vs. Social Media for Trending Topic Prediction – An Experimental Study.” In Proc. IEEE 10th Consumer Communications and Networking Conference (CCNC), pp 729-732, Las Vegas, Nevada.

Refereed Workshop Publications

5. **Taylor, A.** and Riek, L.D. (2018). “Robot-Centric Human Group Detection.” In Proc. of Social Robots in the Wild, Workshop at the 13th Annual ACM/IEEE International Conference on Human-Robot Interaction (HRI).
4. **Taylor, A.** and Riek, L.D. (2017) Robot Affiliation Perception for Social Interaction. In Proc. of Robots in Groups and Teams Workshop at CSCW. pp. 1-4.

Refereed Abstracts and Posters

3. **Taylor, A.** and Riek, L.D. (2017) “Robot Perception of Social Engagement Using Group Joint Action.” In Proceedings of the 7th Annual Joint Action Meeting (JAM).
2. **Taylor, A.,** and Riek, L. D. (2016). Holistic Perception Algorithms for Mobile Robots. In Midwest Robotics Workshop (MWRW).

1. **Taylor, A.**, Du, X., Chen, C., Zare, A. (2014) “Context Dependent Target Detection,” Computational Intelligence Society Poster Competition, University of Missouri, Columbia.

Grants

Robot Navigation in Safety-Critical Environments PI: Angelique Taylor Microsoft Dissertation Award \$25,000	2019-2020
National Women in Information Technology Award PI: Angelique Taylor \$2,000	2019
D.E. Shaw Fellowship PI: Angelique Taylor \$2,000	2019
Human-Robot Teaming in Safety-Critical Environments PI: Angelique Taylor National Science Foundation Graduate Research Fellowship Program \$120,000	2016-2019
Grace Hopper Celebration of Women in Computing (GHC) Award PI: Angelique Taylor \$2,500	2017
Google Anita Borg Memorial Award PI: Angelique Taylor \$10,000	2016-2017
National GEM Consortium Travel Grant PI: Angelique Taylor \$2,000	2016
National Society of Blacks in Computing Travel Grant PI: Angelique Taylor \$2,000	2016
Institute in Chicago Midwest Robotics Travel Grant PI: Angelique Taylor \$1,000	2016

Professional Experience	Meta Reality Labs Research (FRLR), PRO Unlimited <i>Visiting Research Scientist</i>	2021-2022
	Facebook Artificial Intelligence Research (FAIR) <i>Research Intern</i>	2020
	PRO Unlimited: Apple Inc., Artificial Intelligence (AI) Education <i>Teaching Assistant</i>	2019-2021
	The Boeing Company, EA-18G & EW Electronic Warfare <i>Software Intern</i>	2015
	The Boeing Company, Phantom Works, Strategic Development and Experimentation, Technology and Operations <i>Software Intern</i>	2014
	The Boeing Company, F-15 Mission Systems <i>Software Intern</i>	2013
Teaching Experience	PRO Unlimited: Apple Inc., Artificial Intelligence (AI) Education <i>Teaching Assistant</i>	2019-2021
	University of California San Diego <i>Mentored Students on Writing Successful Grant Applications</i> Informal Mentoring	2020
	University of California San Diego <i>Graduate Panel for New Black Graduate Students</i> Black Graduate Student Association – Black Student Union	2020
	University of California San Diego <i>Graduate Mentor</i> Black Graduate Student Association – Black Student Union	2019
	National Society of Blacks in Computing <i>Panel on Writing and Publishing</i> Black Graduate Student Association – Black Student Union	2019
	University of California San Diego <i>Teaching Assistant</i> Introduction to Human-Robot Interaction	2018
	University of California San Diego <i>Graduate Panel for New Computer Science Graduate Students</i> Black Graduate Student Association – Black Student Union	2018

Supervisees	Sandhya Jayaraman (M.S., Computer Science and Engineering)	2021-Present
	Soham Satyadharma (M.S., Computer Science and Engineering)	2021-Present
	Ryan Chu (B.S., Computer Science and Engineering)	2020-Present
	Wesley Xiao (B.S., Computer Science and Engineering)	2019- 2021
	Joymaneeet Kaur (B.S., Computer Science and Engineering)	2019
	Per Antoine Carlsen (M.S., Computer Science and Engineering)	2018-19
	Elyas Obbad (B.S., Engineering and Applied Science)	2018
	Ziwen Zeng (B.S., Cognitive Science)	2018
	Renu Singh (B.S., Computer Science)	2017-18
Astha Mehta (B.S., Cognitive Science)	2017	
Invited Talks	NeurIPS Workshop on Safe and Robust Control of Uncertain Systems Invited Talk	December 2021
	Michigan State , Guest Lecture Invited Talk	November 2021
	Meta AI Organization , Seminar Invited Talk	October 2021
	SORG Lab, Massachusetts General Hospital, Harvard University Invited Talk	July 2021
	International Conference on Machine Learning (ICML), Women in ML Invited Mentoring Talk	July 2021
	MIT Computer Science & Artificial Intelligence Lab Invited Talk	July 2021
	University of Michigan , Seminar Invited Talk	April 2021
	Washington University in St. Louis , Seminar Invited Talk	March 2021
	Yale University , Seminar Invited Talk	March 2021
	University of Virginia , Humans and Robots Course Invited Talk	March 2021
	Carnegie Mellon University , Seminar Invited Talk	February 2021
	Georgia Institute of Technology , Seminar Invited Talk	February 2021
	Cornell University , Seminar Invited Talk	February 2021
Vanderbilt University , Seminar	February 2021	

Invited Talk	
University of California Los Angeles , Seminar Invited Talk	January 2021
Brown University , Robotics Seminar Invited Talk	December 2020
University of Toronto , Healthcare Robotics (HeRo) Seminar Series Invited Talk	November 2020
Building Entertaining Robots Workshop @ International Conference on Social Robotics (ICSR) Invited Talk	November 2020
Michigan State University , Innovative Interfaces Course Invited Guest Lecturer	November 2020
Michigan AI Symposium on AI & Health Invited Talk	October 2020
Ada Lovelace Day Celebration Women in Robotics Invited Panel Talk	October 2020
UC San Diego , Introduction to Human-Robot Interaction Invited Talk	March 2019
UC San Diego , The American Academy of Arts and Sciences Design Lab Invited Talk	May 2019
UC San Diego , Introduction to Human-Robot Interaction Invited Guest Lecturer	February 2018
Academic Service	
Reviewer , Frontiers in Robotics and AI	2021
Reviewer , Transactions of Human-Robot Interaction (THR)	2021
Reviewer , RO-MAN 2021 Workshop on Robot Behavior Adaptation to Human Social Norms	2021
Reviewer , Paladyn. Journal of Behavioral Robotics	2019
Reviewer , Robotics: Science and Systems (RSS)	2019
Reviewer , IEEE Transactions on Robotics (T-RO)	2019, 2021
Student Volunteer , Conference on Human-Robot Interaction	2018, 2020
Reviewer , ACM Conference on Computer-Supported Cooperative Work and Social Computing and Social Computing (CSCW)	2018
Reviewer , ACM/IEEE Conference on Human-Robot Interaction (HRI)	2017, 2020
Reviewer , IEEE Symposium on Robot and Human Interactive Communication (RO-MAN)	2017
Student Volunteer , Recruiter of Prospective Computer Science Faculty at UCSD	2017
Reviewer , Affective Computing and Intelligent Interaction (ACII)	2017
Reviewer , Conference on Human-Robot Interaction (HRI)	2017
Reviewer , AAI Symposium on AI in Human-Robot Interaction (AI-HRI)	2016

	Reviewer , IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	2016
UC San Diego Departmental Service	Visit Day Co-Lead	2018-2020
	Department Visit Day Robotics Group Lead	2017
	Graduate Student Recruiter of Prospective Faculty	2017
Outreach	University of Missouri , McNair Scholars Program - Opportunities with a PhD outside of Academia Panel	December 2021
	Michigan State, Speaking Engagement on ‘Advice on being on the academic job market’	2021
	Fireside Chat with Innoverge	2021
	INTech Camp for Girls, Invited Speaker	2021
	Introduction to Robotics Workshop for Black Women in AI Week, Organizer	2020
	F.A.N.C.Y Teen Girls Expo, San Diego, CA, Invited Speaker	2017-2018
	Blue Heart Foundation Workshop Speaker, San Diego, CA, Invited Speaker	2017
	Code Success @ NSBE, Mentor	2017
	Notre Dame National Robotics Week Event, Invited Speaker	2016
	University of Notre Dame Hispanic Engineers and Scientists STEM Carnival, Invited Speaker	2015
Professional Affiliations & Leadership	Association for Computing Machinery (ACM)	2020-Present
	UC San Diego Graduate Robotics Association President (2018-2019)	2018-2020
	Black Graduate Student Association	2016 - Present
	American Association of University Women	2016 - Present
	Association for Women in Science, University of Notre Dame	2016
	Eta Kappa Nu, Electrical and Computer Engineering Honor Society Vice President (2013-2021)	2013 - Present
Press	Featured in UC San Diego Jacobs School of Engineering	2020
	Featured in UC San Diego Jacobs School of Engineering	2019
	Featured in UC San Diego Television	2018
	Featured in UC San Diego Jacobs School of Engineering	2017