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| College of Computing and Information ScienceCornell Tech, Cornell University2 W Loop Rd, New York, NY 10044 | angeliquemtaylor.comEmail: amt298@cornell.edu |  |
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| **Research Interests:** Human-Robot Interaction, Computer Vision, Artificial Intelligence, and Health Informatics |  |
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| **Academic****Appointments** | **Ph.D., Computer Science and Engineering**University of California San Diego, San Diego, CA | June 2021 |  |
|  | Dissertation: Human-Robot Teaming in Safety-Critical Environments - Perception of and Interaction with GroupsCommittee: Dr. Laurel D. Riek (Advisor), Manmohan Chandraker (UC San Diego), Virginia De Sa (UC San Diego), Sonia Martinez (UC San Diego), Nadir Weibel (UC San Diego), Marynel V'azquez (Yale University) |  |  |
|  | **B.S., Electrical Engineering**University of Missouri, Columbia, MOResearch Advisor: Dr. Alina Zare | May 2015 |  |
|  |  |  |  |
|  | **B.S., Computer Engineering**University of Missouri, Columbia, MOResearch Advisor: Dr. Alina Zare | May 2015 |  |
|  |  |  |  |
|  | **A.S., Engineering Science**Saint Louis Community College at Florissant Valley, Saint Louis, MO | May 2012 |  |
|  |  |  |  |
| **Research****Appointments** | Assistant Professor, Information Science Department, Cornell UniversityDirector or the Artificial Intelligence and Robotics Lab, Cornell UniversityAssistant Professor, Computer Science Department (Field Member), Cornell UniversityVisiting Research Scientist, Meta Reality Labs, PRO UnlimitedPostdoctoral Researcher, UC San Diego, Healthcare Robotics LabResearch Intern, Facebook Artificial Intelligence Research (FAIR) | 2022-Present2022-Present2022-Present2021-20222021-20222020 |  |
|  |  |  |  |
| **Awards and Honors** | Google Award for Inclusive ResearchNational Women in IT Collegiate Award – Grand Prize WinnerBest Paper Honorable Mention, ACM Computer Supported Cooperative Work [top 5% of submissions]Microsoft Research Dissertation Grant [10 selected out of 300] | 2023202120192019 |  |
| 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 – Honorable Mention | 2019 |  |
|  | Arthur J. Schmitt Leadership in Science and Engineering Fellowship  | 2015 |  |
|  | National GEM Consortium Fellowship |  |  |
|  | 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** |  |
|  | 17. **Taylor, A.**, Tanjim, T, Cao, H., Lee, H. (2023) “Towards Collaborative Crash Cart Robots that Support Clinical Teamwork.” In Proc. of the 19th Annual ACM/IEEE Conference on Human Robot Interaction (HRI). 16. Suresh, A., **Taylor, A.**, Riek, L.D., Martinez, S. (2023) “Robot Navigation in Risky, Crowded Environments: Understanding Human Preferences.” IEEE Robotics and Automation Letters (RA-L), pp. 1-8.15. **Taylor, A.** “AI Designed With Humans in Mind.” Issues in Science and Technology 38, no. 4 (Summer 2022): 93–95. 14. **Taylor, A.,** Murakami, M., Kim, S., Chu, R., and Riek, L.D. (2022) “Hospitals of the Future: Designing Interactive Robotic Systems for Resilient Emergency Departments.” In Proc. of the ACM Conference on Computer Supported Collaborative Work (CSCW) [Acceptance rate: <30%] |  |
|  |  |  |
|  | 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%] **\*Best Paper Award\*** |  |
|  |  |  |
|  | 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. |  |
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| **Grants** | Google Award for Inclusive Research 2024-2025 Towards Robots for Inclusive Clinical Teamwork PI: Angelique Taylor, Co-PI Hee Rin LeeGoogle Award for Inclusive Research$60,000Robot Navigation in Safety-Critical Environments 2019-2020 PI: Angelique TaylorMicrosoft Dissertation Award $25,000 |  |
|  | National Women in Information Technology Award 2019 PI: Angelique Taylor$2,000 |  |
|  |  |  |
|  | D.E. Shaw Fellowship 2019 PI: Angelique Taylor$2,000 |  |
|  |  |  |
|  | 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) AwardPI: Angelique Taylor $2,500 | 2017 |  |
|  |  |  |  |
|  | Google Anita Borg Memorial AwardPI: Angelique Taylor$10,000 |  2016-2017 |  |
|  |  |  |  |
|  | National GEM Consortium Travel GrantPI: Angelique Taylor$2,000 |  2016 |  |
|  |  |  |  |
|  | National Society of Blacks in Computing Travel GrantPI: Angelique Taylor$2,000 |  2016 |  |
|  |  |  |  |
|  | Institute in Chicago Midwest Robotics Travel Grant 2016PI: Angelique Taylor$1,000  |  |
|  |  |  |  |
| **Professional Experience** | **Meta Reality Labs Research, PRO Unlimited***Visiting Research Scientist, PRO Unlimited* |  2021-2022 |  |
|  |  |  |  |
|  | **Facebook Artificial Intelligence Research (FAIR)***Research Intern* | 2020 |  |
|  |  |  |  |
|  | **Apple Inc., Artificial Intelligence (AI) Education** *Teaching Assistant, PRO Unlimited* | 2019-2021 |  |
|  |  |  |  |
|  | **The Boeing Company,EA-18G & EW Electronic Warfare***Software Intern* | 2015 |  |
|  |  |  |  |
|  | **The Boeing Company,Phantom Works, Strategic Development and Experimentation, Technology and Operations**So*ftware Intern* | 2014 |  |
|  |  |  |  |
|  | **The Boeing Company, F-15 Mission Systems***Software Intern* | 2013 |  |
|  |  |  |  |
| **Teaching Experience** | **Cornell Tech, Cornell University**INFO 5368:030 Practical Applications in Machine Learning | 2023-24 |  |
|  |  |  |  |
|  | **Cornell Tech, Cornell University**INFO 5356:030 Introduction to Human-Robot Interaction  | Fall 2022 |  |
|  |  |  |  |
|  | **PRO Unlimited: Apple Inc., Artificial Intelligence (AI) Education** *Teaching Assistant*  | 2019-2021 |  |
|  |  |  |  |
|  | **University of California San Diego***Mentored Students on Writing Successful Grant Applications*Informal Mentoring | 2020 |  |
|  |  |  |  |
|  | **University of California San Diego***Graduate Panel for New Black Graduate Students*Black Graduate Student Association – Black Student Union | 2020 |  |
|  |  |  |  |
|  | **University of California San Diego***Graduate Mentor*Black Graduate Student Association – Black Student Union | 2019 |  |
|  |  |  |  |
|  | **National Society of Blacks in Computing** *Panel on Writing and Publishing*Black Graduate Student Association – Black Student Union | 2019 |  |
|  |  |  |  |
|  | **University of California San Diego** *Teaching Assistant* Introduction to Human-Robot Interaction | 2018 |  |
|  |  |  |  |
|  | **University of California San Diego***Graduate Panel for New Computer Science Graduate Students*Black Graduate Student Association – Black Student Union | 2018 |  |
|  |  |  |  |
| **Student****Mentoring** | Brian La (B.S., Computer Science, Cornell University)Jonathan Segal (Ph.D., Information Science, Cornell University)Sarah Morrison (M.S., Health Tech, Cornell University)Promise Ekpo (Ph.D., Computer Science, Cornell University)Omar Mohamed (M.S., Electrical Engineering, Cornell University) | 2024-Present2023-PresentFall 2023-PresentFall 2023-PresentFall 2023 |  |
|  | Kexin Cheng (M.S., Connected Media, Cornell University) | Fall 2023-Present |  |
|  | Nabil Koney-Laryea (B.S., Computer Science, University of Florida) | 2023-Present |  |
|  | Jalynn Nicoly (B.S., Computer Science, Colorado State University) | 2023 |  |
|  | Sridula Rao Kunamneni (B.S., Computer Science, Cornell University)Anaiya Badi (High School, Trinity High School) | 2023Summer 2023 |  |
|  | Tauhid Tanjim (Ph.D., Information Science, Cornell University) | 2022-Present |  |
|  | Nhan Tran (Ph.D., Computer Science, Cornell University) | 2022-2023 |  |
|  | Tiantian Li (B.S., Computer Science, Cornell University) | 2022-2023 |  |
|  | Soyon Kim (B.S., Mathematics, UC San Diego) | 2021-2022 |  |
|  | Michele Murakami (B.S., Cognitive Science, UC San Diego) | 2021-2022 |  |
|  | Sandhya Jayaraman (M.S., Computer Science and Engineering, UC San Diego) | 2021-2022 |  |
|  | Soham Satyadharma (M.S., Computer Science and Engineering, UC San Diego) | 2021-2022 |  |
|  | Ryan Chu (B.S., Computer Science and Engineering, UC San Diego) | 2020-2022 |  |
|  | Wesley Xiao (B.S., Computer Science and Engineering, UC San Diego) | 2019- 2021 |  |
|  | Joymaneet Kaur (B.S., Computer Science and Engineering, UC San Diego) | 2019 |  |
|  | Per Antoine Carlsen (M.S., Computer Science and Engineering, UC San Diego) | 2018-19 |  |
|  | Elyas Obbad (B.S., Engineering and Applied Science, UC San Diego) | 2018 |  |
|  | Ziwen Zeng (B.S., Cognitive Science, UC San Diego) | 2018 |  |
|  | Renu Singh (B.S., Computer Science, UC San Diego) | 2017-18 |  |
|  | Astha Mehta (B.S., Cognitive Science, UC San Diego) | 2017 |  |
|  |  |  |  |
| **Invited Talks** | AI in Healthcare Course, Cornell Tech, Guest Lecture | November 2023 |  |
|  | University of Washington Robotics Colloquium | October 2023 |  |
|  | Data-Driven Urban Tech: How Machine Learning and Optimization Addresses Today’s Urban Challenges | May 2023 |  |
|  | The Center for Health Design Journal Club | May 2023 |  |
|  | Introduction to HRI, Guest Lecturer, University of Virginia | April 2023 |  |
|  | Northeast CSCW Meetup, Panel on ‘Data’s Social Complexities’ | November 2022 |  |
|  | Extended Reality (XR) Retreat on ‘XR for HRI’ | October 2022 |  |
|  | Cornell Weil Symposium, ‘Perception and Decision-Making Systems for Human-Robot Teaming in Safety-Critical Environments’ | October 2022 |  |
|  | MI484 Human-Robot Interaction, Guest Lecturer, Michigan State University | November 2022 |  |
|  | Robots and Humans, Guest Lecturer, University of Virginia | November 2022 |  |
|  | Close-Proximity Human-Robot Collaboration Workshop, Robotics Science and Systems (RSS) Conference | June 2022 |  |
|  | Social Robot Navigation: Advances and Evaluation Workshop at the International Conference in Robotics and Automation (ICRA) | May 2022 |  |
|  | UC San Diego Robotics Seminar | March 2022 |  |
|  | Cornell University Robotics Seminar | February 2022 |  |
|  | Cornell University Information Science Seminar | February 2022 |  |
|  | UC San Diego Robotics Seminar | March 2022 |  |
|  | Safe and Robust Control of Uncertain Systems Workshop, NeurIPS | December 2021 |  |
|  | Michigan State,Guest Lecture | November 2021 |  |
|  | Meta AI Organization, Seminar | October 2021 |  |
|  | SORG Lab, Massachusetts General Hospital, Harvard University | July 2021 |  |
|  | International Conference on Machine Learning (ICML), Women in ML  | July 2021 |  |
|  | MIT Computer Science & Artificial Intelligence Lab | July 2021 |  |
|  | University of Michigan, Seminar | April 2021 |  |
|  | Washington University in St. Louis, Seminar | March 2021 |  |
|  | Yale University, Seminar | March 2021 |  |
|  | University of Virginia, Humans and Robots Course | March 2021 |  |
|  | Carnegie Mellon University, Seminar | February 2021 |  |
|  | Georgia Institute of Technology, Seminar | February 2021 |  |
|  | Cornell University, Seminar | February 2021 |  |
|  | Vanderbilt University, Seminar | February 2021 |  |
|  | University of California Los Angeles, Seminar | January 2021 |  |
|  | Brown University, Robotics Seminar |  December 2020 |  |
|  | University of Toronto, Healthcare Robotics (HeRo) Seminar Series | November 2020 |  |
|  | Building Entertaining Robots Workshop in the International Conference on Social Robotics (ICSR) | November 2020 |  |
|  | Michigan State University, Innovative Interfaces Course, Guest Lecturer | November 2020 |  |
| Michigan AI Symposium on AI & Health  | October 2020 |  |
| Ada Lovelace Day Celebration Women in Robotics, Panel Talk | October 2020 |  |
|  | UC San Diego, Introduction to Human-Robot Interaction UC San Diego, The American Academy of Arts and Sciences Design LabUC San Diego, Introduction to Human-Robot Interaction, Guest Lecturer | March 2019May 2019February 2018 |  |
| **External** **Academic****Service** | **Reviewer,** Conference on Human Factors in Computing Systems (CHI) | 2024 |  |
| **Reviewer**, International Conference on Robotics and Automation | 2023 |  |
| **Reviewer**, Affective Computing and Intelligent Interaction (ACII) | 2023, 2017 |  |
| **Reviewer**, Robotics: Science and Systems (RSS) | 2023, 2019 |  |
| **Reviewer**, IEEE/RSJ Intern. Conf. on Intelligent Robots and Systems (IROS)**Reviewer**, IEEE Robotics and Automation (RA-L) Letters**Reviewer**, Frontiers in Robotics and AI**Reviewer**, Transactions of Human-Robot Interaction (THRI)**Reviewer**, RO-MAN 2021 Workshop on Robot Behavior Adaptation to Human Social Norms | 2023, 2016202220222021-222021 |  |
| **Reviewer**, Paladyn. Journal of Behavioral Robotics | 2019 |  |
|  | **Reviewer**, IEEE Transactions on Robotics (T-RO) | 2019, 2021 |  |
|  | **Student Volunteer,** Conference on Human-Robot Interaction **Reviewer**, ACM Conference on Computer-Supported Cooperative Work (CSCW) | 2018, 20202018 |  |
|  | **Reviewer**, ACM/IEEE Conference on Human-Robot Interaction (HRI) | 2017 -Present |  |
|  | **Reviewer**, IEEE Symposium on Robot and Human Interactive Communication (RO-MAN) | 2017 |  |
|  | **Student Volunteer,** Recruiter of Prospective Computer Science Faculty at UCSD | 2017 |  |
|  | **Reviewer**, AAAI Symposium on AI in Human-Robot Interaction (AI-HRI) | 2016 |  |
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| **Academic****Service** | PhD Dissertation Committee Member for Inara Tusseyeva (Nazarbayev University)Cornell Future Faculty Symposium Panel | December 2023September 2023 |  |
|  | Richard Tapia Conference, Co-Organizer of Young, Black, and Tenure Track Workshop | 2023 |  |
|  | Human Robot Interaction Conference, Program Committee, Systems Track Human Robot Interaction Conference, Organizing Committee, Late Breaking Reports Co-Chair Affective Computing and Intelligent Interaction, Program CommitteeYoung, Black, and Tenure Track Workshop, CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing Conference, OrganizerHuman Robot Interaction Conference, Program Committee, Student Volunteers Co-Chair  | 2023-20242023-2024202320232022-23 |  |
|  | Human Robot Interaction Conference, Organizing CommitteeNSF Workshop on Safety and Trust in AI-Enabled Systems (SafeTAI) | 2022-232022 |  |
|  | Faculty Advisor for Black Cornell Tech Graduate Student Association | 2022-Present |  |
|  | PHD Dissertation Committee Member for Houston Clare (Cornell Tech) | 2022 |  |
|  | Broadening Participation in Information Science Committee (Cornell Tech)Visit Day Co-Lead (UC San Diego)Department Visit Day Robotics Group Lead (UC San Diego)Graduate Student Recruiter of Prospective Faculty (UC San Diego) | 2022-Present2018-202020172017 |  |
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| **Outreach** | Invited Speaker | Modern Figures Podcast | December 2023 |  |
|  | Invited Speaker | Women in Computing at Cornell High School Programming Contest | 2023 |  |
|  | Mentor | Queen’s Tech Fair, Black Cornell Tech Student Association Mentoring Session | 2023-24 |  |
|  | Invited Speaker | Cornell Tech Panel on ‘Applying to Tenure-Track Jobs’ | 2022 |  |
|  | Reviewer | Cornell Tech PhD Fellowship Application Night | 2022 |  |
|  | Panel Member | University of Missouri, McNair Scholars Program - Opportunities with a PhD outside of Academia Panel | December 2021 |  |
|  | Invited Speaker | Michigan State, Speaking Engagement on ‘Advice on being on the academic job market’ | 2021 |  |
|  | Invited Speaker | Fireside Chat with Innoverge | 2021 |  |
|  | Invited Speaker | INTech Camp for Girls | 2021 |  |
|  | Organizer | Introduction to Robotics Workshop for Black Women in AI Week | 2020 |  |
| Invited Speaker | F.A.N.C.Y Teen Girls Expo, San Diego, CA | 2017-2018 |  |
|  | Invited Speaker | Blue Heart Foundation Workshop, San Diego, CA | 2017 |  |
|  | Mentor | Code Success @ NSBE | 2017 |  |
|  | Invited Speaker | Notre Dame National Robotics Week Event | 2016 |  |
|  | Invited Speaker | University of Notre Dame Hispanic Engineers and Scientists STEM Carnival | 2015 |  |
|  |  |  |  |
| **Professional** | The Institute of Electrical and Electronics Engineers (IEEE) Member | 2022-Present |  |
| **Affiliations &** | IEEE Robotics and Automation (RA-L) Letters | 2022-Present |  |
| **Leadership** | Association for Computing Machinery (ACM) UC San Diego Graduate Robotics Association (Presidentfrom 2018-2019)Black Graduate Student AssociationAmerican Association of University Women | 2020-Present2018-20202016 - 20212016 - 2021 |  |
| Association for Women in Science, University of Notre Dame | 2016 |  |
|  | Eta Kappa Nu, Electrical and Computer Engineering Honor Society (Vice Presidentfrom 2013-2021) | 2013 - 2021 |  |
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| **Press** | [PC Magazine, Teaching Robots to Navigate Hectic Emergency Rooms Is No Easy Task](https://www.pcmag.com/news/teaching-robots-to-navigate-hectic-emergency-rooms-is-no-easy-task) | 2021 |  |
|  | [UC San Diego Television, Improving Human-Robot Interaction](https://www.uctv.tv/shows/Angelique-Taylor-Improving-Human-Robot-Interaction-33425) | 2018 |  |
|  | [UC San Diego Jacobs School of Engineering Blog](http://jacobsschoolofengineering.blogspot.com/2017/08/uc-san-diego-at-robocup-2017.html), UC San Diego at RoboCup 2017 | 2017 |  |
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