Jaylin Herskovitz

Research Interests

The goal of my research is to help people create customized AI and sensing technologies to suit their unique needs. In my current work, I am developing tools for people with disabilities to create their own AI-based applications to improve the accessibility of tasks in their day-to-day lives.

Areas: Human-Computer Interaction, Accessibility, DIY Technology, AR/VR, Toolkits, Mobile Sensing, Collaboration

Education

•	University of Michigan PhD Student in Computer Science & Engineering Advised by Anhong Guo

09/2015 – 05/2019 University of Michigan

Ann Arbor, MI Bachelor of Science in Computer Science, Minor in Mathematics

Professional Experience

Turi Accessibility Research, Apple Research Intern Mentored by Jeffrey Bigham
EPIC Research Group, Microsoft Research Research Intern Conducted a research project investigating the value of current Augmented Reality devices in providing guidance for home improvement projects. Mentored by Eyal Ofek and Adam Fourney

Awards

2023	CSE Service Award for Excellence in Climate and DEI, University of Michigan
2021-2024	NSF Graduate Research Fellowship
2019–2020	CSE fellowship, University of Michigan
2015, 2018	Michigan Competitive Scholarship
Winter 2017	Excellence in Undergraduate Writing Award : Feinberg Family Writing Prize for Research Based Argument
2016-2017	Linda I. Evans Dean's Scholarship
2015–2016	Regents Merit Scholarship

Publications

Conference Papers

- C.09 J. Herskovitz, A. Xu, R. Alharbi, A. Guo. Hacking, Switching, Combining: Understanding and Supporting DIY Assistive Technology Design by Blind People. In *Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2023).
- C.08 J. Herskovitz, Y. Cheng, A. Guo, A. Sample, M. Nebeling. XSpace: An Augmented Reality Toolkit for Enabling Spatially-Aware Distributed Collaboration. In Proceedings of the ACM on Human-Computer Interaction (ISS 2022).
- C.07 A. Alkayyali, Y. Iravantchi, **J. Herskovitz**, A. Sample. UbiChromics: Enabling Ubiquitously Deployable Interactive Displays with Photochromic Paint. In *Proceedings of the ACM on Human-Computer Interaction* (ISS 2022).
- C.06 C.Y.P. Lee, Z. Zhang, J. Herskovitz, J.Y. Seo, A. Guo. CollabAlly: Accessible Collaboration Awareness in Document Editing. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2022). [Honorable Mention]
- C.07 J. Lee, J. Herskovitz, Y.H. Peng, A. Guo. Multi-Layered Touch Exploration to Encourage Skepticism Towards Imperfect Al-Generated Image Captions. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2022).
- C.04 M. Nebeling, S. Rajaram, L. Wu, Y. Cheng, J. Herskovitz. XRStudio: A Virtual Production Technology Probe for Immersive Instructional Experiences. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2021).
- C.03 J. Herskovitz, J. Wu, S. White, A. Pavel, A. Guo, G. Reyes, J. Bigham. Making Mobile Augmented Reality Applications Accessible. In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS 2020).
- C.02 Y. Chen, J. Herskovitz, W.S. Lasecki, S. Oney. A Hybrid Crowd-Machine Workflow for Program Synthesis. In Proceedings of the IEEE Symposium on Visual Languages and Human-Centered Computing (VL/HCC 2020).
- C.01 Y. Chen, J. Herskovitz, G. Matute, A. Wang, S.W. Lee, W.S. Lasecki, S. Oney. EdCode: Towards Personalized Support at Scale for Remote Assistance in CS Education. In Proceedings of the IEEE Symposium on Visual Languages and Human-Centered Computing (VL/HCC 2020). [Best Short Paper Award]

Posters

- P.03 C.Y.P. Lee, Z. Zhang, J. Herskovitz, J.Y. Seo, A. Guo. CollabAlly: Accessible Collaboration Awareness in Document Editing. (ASSETS 2021 Demos).
- P.02 J.Lee, Y.H. Peng, J. Herskovitz, A. Guo. Image Explorer: Multi-Layered Touch Exploration to Make Images Accessible. (ASSETS 2021 Demos).
- P.01 J. Herskovitz, E. Ofek, W.S. Lasecki, A. Fourney. Opportunities for In-Home Augmented Reality Guidance. (CHI 2019 Late Breaking Work).

Workshops

W.01 J. Herskovitz, J. Chinnam, I. Wong, M. Liu, J. Mo, S.W. Lee, W.S. Lasecki. Crowdsourcing for Effortless Creation of Collaborative AR Spaces. In CHI Workshop on Novel Interaction Techniques for Collaboration in VR. 2018.

Invited Talks

- 01/2022 Making Mobile Augmented Reality Accessible Adobe Research Seminar
- 12/2021 Making Mobile Augmented Reality Accessible Cornell's XR Access Initiative Seminar

Service

- Fall 2022 Volunteer Mentor, University of Michigan CSE PhD Application Feedback Program for Underrepresented Students
- Fall 2022 Volunteer NSF GRFP Coach, University of Michigan
- 2022–2023 Volunteer Mentor, University of Michigan CSE Wellness Buddy Program
- 2022–2023 **DEI Chair,** UMich Computer Science and Engineering Graduate Student Organization (CSEG)
- Spring 2022, 2023 Volunteer Speaker, University of Michigan Visit Day DEI Student Panel
 - 2021–2022 Web Co-Chair, ACM ASSETS 2022 Organizing Committee
 - 2021–2022 Volunteer Student Representative, University of Michigan CSE DEI Committee
 - 2020–2022 Secretary, UMich Computer Science and Engineering Graduate Student Organization (CSEG)
 - 2019– **Reviewer:** CHI 2021, 2022, 2023; UIST 2021; DIS 2022; CHI Late Breaking Work 2019, 2021, 2022 Special recognition for outstanding reviews: UIST 2021, CHI 2023

Outreach

- Winter 2023 Volunteer Speaker, Washtenaw Community College Stem Scholars Program: Presented to students on research opportunities and career paths in computer science.
- Summer 2020 & Volunteer Mentor and Team Lead, Bold Idea Website Development course for Fall 2020 4th-12th grade students, won Outstanding Mentor Award.
- November 2017 Wolverine Pathways Visit Day Volunteer: Led HCI research activity for high school students.

Teaching

- Winter 2021 Graduate Student Instructor: User Interface Development (EECS 493)
 Helped to organize the class and create course materials, held office hours.
- Summer 2016 M-STEM Academies Academic Facilitator
 Led discussion sections for a calculus course for incoming freshmen.