JIASHENG LI

8125 Paint Branch Drive, College Park, Maryland, 20742 jsli@umd.edu https://jsli.phd

EDUCATION

University of Maryland, College Park , MD, USA <i>Ph.D. in Computer Science</i>	Aug 2021 - Present
 Research interests: accessibility, virtual reality, haptic devices, human-comput Advisor: Dr. Huaishu Peng 	ter interaction(HCI)
University of Maryland, College Park , MD, USA <i>M.S. in Telecommunication</i>	Jan 2020 - Aug 2021
Virginia Tech , VA, USA B.S. in Electrical Engineering	Aug 2015 - May 2019
AWARDS & HONORS	
Best Paper Honorable Mention (CHI 2023)	April 2023
Dean's Fellowship, University of Maryland, College Park (\$5,000)	2021, 2022

RESEARCH EXPERIENCE

Small Artifacts Lab, University of Maryland Graduate Research Assistant (Advisors: Dr. Huaishu, Peng)

• Developing assistive devices and multimodal interaction technologies, such as tangible user interfaces and haptic devices, that aims to improve blind people's interaction experience in the digital world.

College Park, MD USA

Sept 2020 - Present

- Conducting user-orientated studies to explore blind users' perceptions of the VR environment and investigate their interaction strategies in using haptic devices.
- Designing and implementing active haptic interfaces that utilize wearable devices or on-body robots to provide real-time haptic feedback for blind users in creating immersive virtual experiences.
- Exploring and evaluating the potentially accessible communication interfaces for blind users in VR settings.

PUBLICATIONS & INVITED TALKS

Full Papers

- [P.1] Jiasheng Li, Zeyu Yan, Arush Shah, Jonathan Lazar, and Huaishu Peng. 2023. Touchally: Making Inaccessible Public Touchscreens Accessible. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (ACM CHI '23). [Best paper honorable mention] [link]
- [P.2] Niall L Williams, Jiasheng Li, Ming C Lin. 2023. A Framework for Active Haptic Guidance Using Robotic Haptic Proxies. IEEE International Conference on Robotics and Automation (IEEE ICRA '23). [link]
- [P.3] Jiasheng Li, Zeyu Yan, Ebrima Haddy Jarjue, Ashrith Shetty, and Huaishu Peng. 2022. TangibleGrid: Tangible Web Layout Design for Blind Users. In Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology (ACM UIST '22). [link]
- [P.4] Anup Sathya, Jiasheng Li, Tauhidur Rahman, Ge Gao, and Huaishu Peng. 2022. Calico: Relocatable On-cloth Wearables with Fast, Reliable, and Precise Locomotion. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol (ACM IMWUT 2022).[link]
- [P.5] Xiaojun Quan, Ming Gao, Ping Cheng, Jiasheng Li. 2015. An experimental investigation of pool boiling heat transfer on smooth/rib surfaces under an electric field, International Journal of Heat and Mass Transfer [link]

Demos and Posters

[D.1] Jiasheng Li, Zeyu Yan, Ebrima Haddy Jarjue, Ashrith Shetty, and Huaishu Peng. 2022. Demonstration of TangibleGrid: a Tangible Web Layout Design Tool for Blind Users. In Adjunct Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology (ACM UIST '22 Adjunct). [link]

TEACHING EXPERIENCE

Graduate Teaching Assistant (Head TA) University of Maryland, College Park	Aug 2021 - Present College Park, MD
• TA duties: Leading other TAs, held office hours, designed programming assignment and exams.	ents, and graded assignments
• Courses TA'd for: Javascript Programming & Web Application Development	
Graduate Teaching Assistant	Aug 2020 - Dec 2020
University of Maryland, College Park	College Park, MD
• TA duties: Held office hours, graded assignments and exams.	
• Courses TA'd for: Decision Support Methods for Telecommunication Manager	S
Laboratory Assistant	Aug 2019 - Nov 2019
Virginia Tech, Blacksburg	Blacksburg, VA
• Manage design and implement lab equipment such as printed circuit boards (P	CBs) and Arduino

- Manage, design, and implement lab equipment, such as printed circuit boards (PCBs) and Arduino.
- Supervisor: Dr. Steve Southward, Associate Professor.

MEDIA COVERAGE

- Calico Robot Assistant: The Tiny, On-Cloth Wearable Device That Can Zip Around Your Clothing
 The Science Times
 Link: https://www.sciencetimes.com/articles/44407/20230620/calico-robot-assistant-tiny-cloth-...
- Graduate Student's Innovative Technology for the Visually Impaired Honored at CHI 2023 Conference
 UMD

 ${\it Link: \ https://www.cs.umd.edu/article/2023/06/umd-cs-graduate-student's-innovative-technology-...}$

- A Wearable Robotic Assistant That's All Over You - **IEEE Spectrum** Link: https://spectrum.ieee.org/wearable-robotics
- THE CALICO WEARABLE RIDES THE RAILS

 Hackday
 Link: https://hackaday.com/2022/09/14/the-calico-wearable-rides-the-rails/
- System Breaks Down Barriers for Blind Web Designers

 NewsWires, UMD
 Link: https://tys://www.einnews.com/pr_news/597647252/system-breaks-down-barriers-for-blind-...
 Link: https://today.umd.edu/system-breaks-down-barriers-for-blind-web-designers

PROFESSIONAL SERVICES & COMMUNITY INVOLVEMENT

Peer Reviewing	CHI Conference on Human Factors in Computing Systems, ACM	2023 - Present
	Symposium on User Interface Software and Technology (UIST),	
	ACM Interaction Design and Children (IDC) Conference, ACM	
	Designing Interactive Systems (DIS)	
Conference Volunteer	CHI Conference on Human Factors in Computing Systems	2023
University of Maryland	Graduate admissions application reviewer	2022

MENTORING EXPERIENCE