

Xingyu “Bruce” Liu

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Education

- 2020 – now 📌 **Ph.D. Student, University of California, Los Angeles**
Electrical and Computer Engineering, UCLA HCI Lab
Advised by Xiang “Anthony” Chen
MS Thesis: *Human-AI Systems for Video Accessibility*
- 2016 – 2020 📌 **B.S. in Statistics and Machine Learning, Carnegie Mellon University**
Additional Major in Human-Computer Interaction
Minor in Computer Science
with University Honors

Publications

Peer-reviewed Publications

- [1] **Xingyu “Bruce” Liu**, Ruolin Wang, Dingzeyu Li, Xiang ‘Anthony’ Chen, and Amy Pavel. 2022. CrossAny: Identifying Video Accessibility Issues via Cross-Modal Grounding. In *Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology (UIST ’22)* Article 43. Association for Computing Machinery, Bend, OR, USA, 14 pages. ISBN: 9781450393201. 📄 DOI: 10.1145/3526113.3545703. 🏆 **Best Paper Award.**
- [2] **Xingyu Liu**, Patrick Carrington, Xiang ‘Anthony’ Chen, and Amy Pavel. 2021. What Makes Videos Accessible to Blind and Visually Impaired People? In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI ’21)* Article 272. Association for Computing Machinery, Yokohama, Japan, 14 pages. ISBN: 9781450380966. 📄 DOI: 10.1145/3411764.3445233.
- [3] Cole Gleason, Amy Pavel, **Xingyu Liu**, Patrick Carrington, Lydia B. Chilton, and Jeffrey P. Bigham. 2019. Making Memes Accessible. In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS ’19)*. Association for Computing Machinery, Pittsburgh, PA, USA, 367–376. 📄 DOI: 10.1145/3308561.3353792.

Under Review

- [4] **Xingyu Liu**, Ruolin Wang, Xiang ‘Anthony’ Chen, and Amy Pavel. 2022. Understanding How Blind and Visually Impaired People Leverage Accessibility Metrics In Practice. *Under Review*.
- [5] **Xingyu Liu***, Joanne Leong*, Hanseul Jun, Sven Kratz, Yu Jiang Tham, Andrés Monroy-Hernández, Brian A. Smith, and Rajan Vaish. 2022. Wormholes: Augmenting Everyday Object as Connection Endpoints for Remote Awareness. *Under Review*.






Patents

- [6] Bing Liu and **Xingyu Liu**. 2020. Method, device and computer product for predicting disk failure. Patent No. US20200233587A1, CN111459692A. (July 2020).
- [7] Bing Liu and **Xingyu Liu**. 2020. Method, device, and computer program product for facilitating prediction of disk failure. Patent No. US20200133758A1, CN111104293A. (April 2020).



Awards and Honors

- 2022  **Best Paper Award**, UIST 2022
-  **Distinguished Master's Thesis Research Award**, UCLA ECE Department.
- 2020-2022  **Departmental Fellowship**, UCLA ECE Department, \$65,000.
- 2018  **Best Social Impact Award**, TartanHacks (40+ teams).
- 2017  **First Place, Most Technical Award**, HackNY (20+ teams).
- 2016  **Mizuho Scholar**, Mizuho & Wing Hang Bank Scholarship and Charity Funds, \$1,000.
- 2016 – 2020  **Dean's List**, Carnegie Mellon University.

Professional Experience

- 2022 spring/summer  **Google Labs**, Student Researcher.
Augmented language.
Advised by Dr. Ruofei Du.
- 2021 summer  **Snap Research**, Research Intern.
AR-based physical connections for remote awareness between friends.
Paper in submission.
Advised by Dr. Rajan Vaish and Dr. Brian A. Smith.
- 2019 – 2020  **CMU Accessibility Lab**, Research Assistant.
Making social media content accessible.
Two papers published at ASSETS and CHI.
Advised by Prof. Amy Pavel, Prof. Jeffrey Bigham, and Prof. Patrick Carrington.
- 2018 – 2019  **CMU CHIMPS Lab**, Research Assistant.
Summarizing terms and conditions with crowdsourcing and ML.
Advised by Prof. Jason Hong.
- 2018 summer  **Dell EMC**, Machine Learning Intern.
ML-based disk failure prediction with SMART and BMS log data.
Two US patents published.

Service

- 2020 – present  **Reviewer**
CHI 2021-2023, UIST 2020-2022, CSCW 2020-2021
- 2015 – 2016  **Volunteer at Braille Without Borders (BWB)**
Volunteered as a teacher in School for the Blind at BWB (preparatory school) for two summers.