Jeremy Zhengqi Huang

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Education

2024- **University of Michigan** – Ann Arbor, MI
Ph.D., Computer Science & Engineering
Advisor: Prof. Dhruv Jain.

2021 – 2023 **University of Michigan** – Ann Arbor, MI
M.S. in Information (Specialization: Human-Computer Interaction)
Thesis: Understanding and Augmenting Debates on Reddit
Thesis advisor: Prof. Eytan Adar *GPA: 3.93.*

2016 – 2021 **The Ohio State University** – Columbus, OH
B.S. in Data Analytics and Psychology *with Research Distinction*
Thesis: Leveraging Cognitive Factors to Improve Sustainability Education
Thesis advisor: Prof. Brittany Shoots-Reinhard. *GPA: 3.837.*

Publications

PP.01 **Huang, J.**, Hicks, E., Sidharth, Hayes, G.R., Jain D. Sona: Real-Time Multi-Target Sound Attenuation for Noise Sensitivity. *ArXiv.*

C.06 **Huang, J.**, de Lacerda Pataca, C., Wu, L.Y., Jain D. CapTune: Caption Personalization and Tuning for Non-Speech Information in Cinematic Experiences Using Generative Models. In *Proceedings of the 27th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2025)* [Acceptance Rate: 29.7%]

C.05 **Huang, J.**, Herskovitz, J., Wu, L.Y., Morrison, C., Jain D. Weaving Sound Information to Support Real-Time Sensemaking of Auditory Environments: Co-Designing with a DHH User. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '25)* [Acceptance Rate: 27.0%]

C.04 Park, Y., Jin, A., **Huang, J.**, Carr, J., Jain D. MaskSound: Exploring Sound Masking Approaches to Support People with Autism in Managing Noise Sensitivity. In *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2024)* [Acceptance Rate: 29.6%]

C.03 **Huang, J.**, Wood, W, Chhabria, H, Jain D. A Human-AI Collaborative Approach for Designing Sound Awareness Systems. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24)* [Acceptance Rate: 26.4%]

C.02 Do, H., Dang, Q., **Huang J.**, and Jain D., 2023, October. AdaptiveSound: An Interactive Feedback-Loop System to Improve Sound Recognition for Deaf and Hard of Hearing Users. In *Proceedings of the 25th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2023)* (pp. 1-13)

C.01 **Huang J.**, Chhabria, H, and Jain D., 2023, October. "Not There Yet": Feasibility and Challenges of Mobile Sound Recognition to Support Deaf and Hard-of-Haring People. In *Proceedings of the 25th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2023)* (pp. 1-13)

Posters and Demos

D.02 **Huang, J.**, Hicks, E., Sidharth, Hayes, G., Jain D. Sona: Towards Context-Aware, Real-Time Personalization of Acoustic Environments for Noise Sensitivity. In *Extended Abstracts of the 2026 CHI Conference on Human Factors in Computing Systems* [Acceptance Rate: 38.4%].

D.01 **Huang, J.**, de Lacerda Pataca, C., Wu, L.Y., Jain D. Demo of CapTune: Caption Personalization and Tuning for Non-Speech Information in Cinematic Experiences Using Generative Models. In *Proceedings of the 27th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2025)*

Professional Experience

2021 – 2023 **Shapiro Design Lab at the University of Michigan Library** – Ann Arbor, MI
Design Researcher, Disability Culture
- Designed a technology probe investigating journey-based support and selective disclosure for people who stutter.
Mentored by Dr. Justin Schell

2019, 2022 **The Coca-Cola Company** – Atlanta, GA
Consumer Research and Data Analytics Intern
- Developed data pipelines and analytics interfaces supporting NLP-based consumer sentiment analysis.

2020-2021 **VECTOR Lab, The Ohio State University** – Columbus, OH
Research Assistant, Mentored by Prof. Jesse Fox
- Facilitated the design and evaluation of Fluid Earth, an interactive climate data visualization tool.

2019-2021 **CAIDe Lab, The Ohio State University** – Columbus, OH
Research Assistant, Mentored by Prof. Brittany Shoots-Reinhard

Honors and Awards

2023 **Best Paper Honorable Mention**, ASSETS 2023

2023 **University of Michigan Library Research Grant**, University of Michigan

2018-2021 **Veeam Software Endowed Scholarship in Data Analytics**, Ohio State University

Service

2025– **Accessibility Chair**, The 39th Annual ACM Symposium on User Interface Software and Technology (UIST 2026), Michigan, USA

2025 **Student Volunteer**, The 27th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2025), Denver, CO

2024– **Event Organizer**, Accessibility, HCI, and Aging Research Group, University of Michigan

2023 **Volunteer**, Michigan AI Symposium, University of Michigan

2022-2023 **Student Leadership Board**, Michigan Institute for Data Science, University of Michigan

2021 **President**, Cognitive Science Club, The Ohio State University

2018-2021 **Student Advisor**, Data Analytics Major, The Ohio State University

2020 **Mentor**, Humanities & Cognitive Sciences High School Summer Institute, The Ohio State University

2018-2020 **Vice President**, The Annie Glenn Chapter of National Stuttering Association

Skills

AI/ML PyTorch, TensorFlow, Hugging Face, CLIP, CLAP

Programming Python, JavaScript/TypeScript, HTML/CSS, SQL, Swift, Java, Kotlin, R, LaTeX

HCI Methods Semi-structured interviews, thematic analysis, survey design, experimental design, statistical analysis

Prototyping React, Vue.js, Node.js, Flask/Django, Firebase, Gradio, Figma

Deployment Git, Linux/Bash, Cloud Platforms (e.g., GCP)

Teaching Experiences

2025-2026 **EECS 493 User Interface Development**, Graduate Student Instructor

Academic Mentoring

2024 **Yuxuan Liu**, University of Michigan, Computer Science and Engineering (Undergraduate)

2022-2024 **Hriday Chhabria**, University of Michigan, Computer Science and Engineering (Undergraduate)

2023-2024 **Reyna Wood**, University of Michigan, Computer Science and Engineering (Undergraduate)

2023-2024 **Andy Jin**, University of Michigan, Computer Science and Engineering (Undergraduate)

2023-2024 **Yuni Park**, University of Michigan, Computer Science and Engineering (Undergraduate)