

Zhuohao (Jerry) Zhang

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Research Interest

I work on addressing real-world accessibility problems by designing assistive technologies leveraging multimodal interaction techniques and human-AI collaboration.

Education

- 2021-now **University of Washington**, Seattle, WA
Ph.D. in Information Science (expected)
Advisor: Jacob O. Wobbrock
- 2019-2021 **University of Illinois at Urbana-Champaign (UIUC)**, Urbana, IL
M.S. in Computer Science (with thesis), GPA: 4.0/4.0
Advisor: Yang Wang
- 2015-2019 **Zhejiang University (ZJU)**, Hangzhou, China
B.Eng. in Computer Science (with Honors), GPA: 3.87/4.0, Ranking: Top 5% of 181
Advisor: Yingcai Wu

Academic Publications

CONFERENCE PAPERS

- [C.9] Jiahao Nick Li **Zhuohao (Jerry) Zhang**, Jiaju Ma. *OmniQuery: Contextually Augmenting Captured Multimodal Memory to Enable Personal Question Answering*. <https://arxiv.org/pdf/2409.08250>
- [C.8] **Zhuohao (Jerry) Zhang**, John R. Thompson, Aditi Shah, Manish Agrawal, Alper Sarikaya, Jacob O. Wobbrock, Edward Cutrell, Bongshin Lee. *ChartA11y: Designing Accessible Touch Experiences of Visualizations with Blind Smartphone Users*. **ASSETS 2024**
- [C.7] **Zhuohao (Jerry) Zhang**, Gene S. Kim, Jacob O. Wobbrock. *Developing and Deploying a Real-World Solution for Accessible Slide Reading and Authoring for Blind Users*. **ASSETS 2023**

- [C.6] **Zhuohao (Jerry) Zhang**, Smirity Kaushik, JooYoung Seo, Haolin Yuan, Sauvik Das, Leah Findlater, Danna Gurari, Abigale Stangl, Yang Wang. *ImageAlly: A Human-AI Hybrid Approach to Support Blind People in Detecting and Redacting Private Image Content*. **SOUPS 2023**
- [C.5] **Zhuohao (Jerry) Zhang**, Jacob O. Wobbrock. *A11yBoard: Making digital artboards accessible to blind and low-vision users*. **CHI 2023**
- [C.4] Cheuk Yin Phipson Lee*, **Zhuohao (Jerry) Zhang**¹, Jaylin Herskovitz, JooYoung Seo,  Anhong Guo. *CollabAlly: Accessible Collaboration Awareness in Document Editing*. **CHI 2022 Best Paper Honorable Mention**
- [C.3] **Zhuohao (Jerry) Zhang**, Zhilin Zhang, Haolin Yuan, Natã Barbosa, Sauvik Das, Yang Wang. *WebAlly: Making Visual Task-based CAPTCHAs Transferable for People with Visual Impairments*. **SOUPS 2021**
- [C.2] Natã Barbosa, **Zhuohao (Jerry) Zhang**, Yang Wang. *Do Privacy and Security Matter to Everyone? Quantifying and Clustering User-Centric Considerations About Smart Home Device Adoption*. **SOUPS 2020**
- [C.1] Lei Shi, Holly Lawson, **Zhuohao (Jerry) Zhang**, Shiri Azenkot. *Designing interactive 3D printed models with Teachers of the Visually Impaired*. **CHI 2019**

OTHERS

- [O.7] Jiahao Nick Li **Zhuohao (Jerry) Zhang**, Jiaju Ma. *OmniQuery: Enabling Question Answering on Personal Memory by Augmenting Multimodal Album Data*. **UIST 2024 Poster**
- [O.6] **Zhuohao (Jerry) Zhang**, Jacob O. Wobbrock. *A11yBoard: Using Multimodal Input and Output to Make Digital Artboards Accessible to Blind Users*. **UIST 2022 Best Poster Honorable Mention**
- [O.5] **Zhuohao (Jerry) Zhang**, Sana Malik, Leo Zhicheng Liu, Shunan Guo, Jane Hoffswell, Ryan Rossi, Fan Du, Eunye Koh. *Codas: Integrating Business Analytics and Report Authoring*. **EuroVA 2022**
- [O.4] **Zhuohao (Jerry) Zhang**, Sana Malik, Leo Zhicheng Liu, Shunan Guo, Jane Hoffswell, Ryan Rossi, Fan Du, Eunye Koh. *Understanding the Data Reporting Needs of Business Analysts*. **EuroVA 2022**
- [O.3] Cheuk Yin Phipson Lee*, **Zhuohao (Jerry) Zhang***, Jaylin Herskovitz, JooYoung Seo, Anhong Guo. *CollabAlly: Accessible Collaboration Awareness in Document Editing*.

¹Symbol * Means Contributed Equally as First Authors

ASSETS 2021 Demo

[O.2] Xiyuan He*, **Zhuohao (Jerry) Zhang***. *GPK: An Efficient Special Symbol Input Method for Keyboards Using Glide*. **CHI 2019 Student Research Competition Winner**

[O.1] Lei Shi, **Zhuohao (Jerry) Zhang**, Shiri Azenkot. *A Demo of Talkit++: Interacting with 3D Printed Models Using iOS Devices*. **ASSETS 2018 Demo**

Work Experiences

- 06/2024-09/2024 **Apple Inc**, Seattle
AIML Research Intern
- 06/2023-09/2023 **Microsoft Research**, Redmond
Applied Scientist Intern, EPIC & Ability Team
- 06/2022-09/2022 **Meta Reality Labs**, Redmond & Toronto
Research Scientist Intern, Agios Team
- 05/2020-08/2020 **Adobe Research**, Remote
Research Scientist Intern, VaaS Team

Research Experiences

- 09/2021-now **University of Washington, Seattle**
Graduate Research Assistant
ACE (Accessible Computing Experiences) Lab, Supervisor: Jacob O. Wobbrock
- 10/2020-09/2021 **University of Michigan at Ann Arbor**
Graduate Research Assistant
HAIL (Human-AI Lab), Supervisor: Anhong Guo
- 10/2019-09/2021 **University of Illinois at Urbana-Champaign, Urbana, IL**
Graduate Research Assistant
Social Computing Systems Lab, Supervisor: Yang Wang
- 09/2018-12/2018 **Cornell University (Cornell Tech), New York, NY**
Research Assistant
Enhancing Abilities Lab, Supervisor: Shiri Azenkot

2017-2019 **Zhejiang University**, Hangzhou, China
Undergraduate Research Assistant
Interactive Data Group, Supervisor: Yingcai Wu

Honors and Awards

2024 Apple Scholars in AI/ML PhD Fellowship
2022 Best Poster Honorable Mention, UIST 2022
2022 Best Paper Honorable Mention, CHI 2022
2019 ACM CHI Student Research Competition Winner
2019 Chu Kochen Honors College Research Scholarship (top 5%)
Awarded \$15000 in total in support for conducting research abroad
2016-2018 First-class Scholarship for 3 successive years (top 3% in ~850 students)

Services

University of Washington

DUB (Design, Use, Build) Seminar Host 2022, 2023
CREATE Advisory Board Meeting Student Volunteer 2022

Academic Reviewing

UIST 2024, CHI 2024, UIST 2023, VIS 2023, CHI 2023, CHI 2022, CSCW 2021, SOUPS 2021