

Zhuohao Zhang

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Research Interest

Human-Computer Interaction, Human-centered AI, AI-powered Accessibility, Computer-Supported Cooperative Work

Education

- 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: 3.88/4.0, Ranking: Top5% of 181
Advisor: Yingcai Wu

Academic Publications

CONFERENCE PAPERS

- [C.5] **Zhuohao Zhang**, Sana Malik, Leo Zhicheng Liu, Tak Yeon Lee, Ryan Rossi, Fan Du, Eunyee Koh. 2020. [On authoring data-driven reports creation for analysts]. In submission of CHI 2021
- [C.4] **Zhuohao Zhang**, Zhilin Zhang, Natã Barbosa, Haolin Yuan, Sauvik Das, Yang Wang. 2020. [On helping people with visual impairments on inaccessible web tasks and protecting their privacy]. In submission of CSCW 2021
- [C.3] Natã Barbosa, **Zhuohao Zhang**, Yang Wang. 2020. Do Privacy and Security Matter to Everyone? Quantifying and Clustering User-Centric Considerations About Smart Home Device Adoption. In Proceedings of the Symposium on Usable Privacy and Security (SOUPS 2020)

- [C.2] **Zhuohao Zhang**, Xiyuan He*. 2019. GPK: An Efficient Special Symbol Input Method for Keyboards Using Glide. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI 2019). Glasgow, UK
- [C.1] Lei Shi, Holly Lawson, **Zhuohao Zhang**, Shiri Azenkot. 2019. Designing interactive 3D printed models with Teachers of the Visually Impaired. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI 2019). Glasgow, UK

DEMOS

- [D.1] Lei Shi, **Zhuohao Zhang**, Shiri Azenkot. 2019. A Demo of Talkit++: Interacting with 3D Printed Models Using iOS Devices. In Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18), Galway, Ireland

Research Experiences

- 2020.07-2020-10 **University of Washington, Seattle**, Remote
Research Assistant
Access Computing Summer Program, Supervisor: Alex Mariakakis
- Research on investigating user needs when using interpretability models for AI health screening.
 - Plan to submit a paper to IUI 2021
- 2019.10-now **University of Illinois at Urbana-Champaign, Urbana, IL**
Research Assistant
Social Computing Systems Lab, Supervisor: Yang Wang
- Research on creating an integrated toolkit to help people with visual impairments when they get blocked by inaccessible tasks. Investigated friend-sourcing rather than crowd-sourcing method in terms of privacy and security protecting under this setting.
 - Submitted a full paper to CSCW 2021
- 2017.10-2018.12 **Cornell University (Cornell Tech), New York, NY**
Research Assistant
Enhancing Abilities Lab, Supervisor: Shiri Azenkot
- Designed an iOS application “Talkit++” to augment fabricated 3D models for blind people; Deployed in real use at several special education schools; Project released at: <https://www.interactiveprintedmodels.com>
 - Results have been published at ASSETS 2018 and CHI 2019

Honors and Awards

- 2019 ACM CHI Student Research Competition, Second Prize
- 2018 Microsoft Imagine Cup 2018, United States National Finals Attendee
- 2016-2018 First-class Scholarship for 3 successive years (top 3% in 850 students)
- 2016 Zhejiang Provincial Government Scholarship

Work and Teaching Experiences

- 2020.05-08 **Adobe Research**, Remote
Research Intern, VaaS group
 - Design an authoring tool to support data-driven report creation for business analysts
 - Submitted to CHI 2021
- 2019-2020 **University of Illinois at Urbana-Champaign**, Urbana, IL
Teaching Assistant
 - TA for course CS107 Data Science Discovery
 - TA for course CS125 An Introduction to Computer Science
 - TA for course CS498 The Arts and Science of Web Programming
- 2017-2018 **Zhejiang University**, Hangzhou, China
Teaching Assistant
 - TA for course Digital Logic Design and Computer Organization. Worked with Prof. Qingsong Shi
 - TA for course CS101 Introduction to Computer Systems. Worked with Prof. Yale N. Patt from UT-Austin

Presentations and Talks

- 2019.05 **CHI 2019 Student Research Competition**, Glasgow, UK
Title: An Efficient Special Symbol Input Method for Keyboards Using Glide
 - Two-round presentation competition of an undergraduate research project
- 2018.10 **Tactile Graphics in Education and Career Symposium**, Baltimore, MD
Title: Sensables: 3D Printed Models for Visually Impaired Students
 - Presented with Ph.D. Lei Shi from Cornell Tech at National Federation of the Blind, Jernigan Institute

Academic Services

Assigned Reviewing

CHI 2019, Late Breaking Work

Skills

TECHNOLOGIES

Proficient in iOS, AR/VR frameworks, Unity, C#, C/C++, Java, Python, Git, JavaScript, HTML, CSS, SQL, PostgreSQL, React.js, D3.js, React Native, Django, etc.

Also familiar with theories and algorithms in Machine Learning, Information Retrieval, Computer Vision, Optimization, etc.

LANGUAGE

English (Proficient), Chinese (Native)

OTHERS

Adobe Photoshop, Illustrator, Microsoft Office, Video editing

Other Experiences

Champion of National Calligraphy Competition, Beijing, China

Won the national calligraphy design Champion among all students in the nation

Design of public posters and advertisement banners, Hangzhou, China

Led a group designing posters and advertisements for 2 years in various of campus activities