

Zihan Wu

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Ph.D. Candidate

University of Michigan, School of Information

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EDUCATION

University of Michigan, Ann Arbor

Ann Arbor, MI, USA

Ph.D. in Information

Aug. 2020 – May 2025 (expected)

Advised by Dr. Barbara Ericson

Tsinghua University

Beijing, China

B.E. in Computer Science and Technology

Sept. 2016 – Jul. 2020

B.S. in Psychology (Second Major)

Sept. 2017 – Jul. 2020

PEER REVIEWED PUBLICATIONS

Zihan Wu, Barbara J. Ericson.

SQL Puzzles: Evaluating Micro Parsons Problems With Different Feedbacks as Practice for Novices
In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24). (To appear)

Xianzhe Fan, **Zihan Wu**, Chun Yu, Fenggui Rao, Weinan Shi, Teng Tu.

ContextCam: Bridging Context Awareness with Creative Human-AI Image Co-Creation
In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24). (To appear)

Zihan Wu, Barbara Ericson, Christopher Brooks. Using Micro Parsons Problems to Scaffold the Learning of Regular Expressions. *In Proceedings of the 2023 Conference on Innovation and Technology in Computer Science Education V. 1 (ITiCSE 2023)*. Association for Computing Machinery, New York, NY, USA. [DOI](#)

Xin Yi, Yiqin Lu, Ziyin Cai, **Zihan Wu**, Yuntao Wang and Yuanchun Shi. GazeDock: Gaze-Only Menu Selection in Virtual Reality using Auto-Trigging Peripheral Menu. *2022 IEEE Conference on Virtual Reality and 3D User Interfaces (VR)*, Christchurch, New Zealand, 2022, pp. 832-842 [DOI](#)

Zihan Wu, Chun Yu, Xuhai Xu, Tong Wei, Tianyuan Zou, Ruolin Wang, and Yuanchun Shi. LightWrite: Teach Handwriting to The Visually Impaired with A Smartphone. *In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21)*. Association for Computing Machinery, New York, NY, USA, Article 32, 1–15. [DOI](#)

April Yi Wang, **Zihan Wu**, Christopher Brooks, and Steve Oney. Callisto: Capturing the "Why" by Connecting Conversations with Computational Narratives. *In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20)*. Association for Computing Machinery, New York, NY, USA, 1–13. [DOI](#)

Honourable Mention Award

[Poster] **Zihan Wu**. Investigating the Effectiveness of Variations of Micro Parsons Problems. *In Proceedings of the 2023 ACM Conference on International Computing Education Research - Volume 2 (ICER '23)*, Vol. 2. Association for Computing Machinery, New York, NY, USA, 120–122. [DOI](#)

[Poster] **Zihan Wu**, Barbara Ericson, and Christopher Brooks. Regex Parsons: Using Horizontal Parsons Problems to Scaffold Learning Regex. *In Proceedings of the 21st Koli Calling International Conference on Computing Education Research (Koli Calling '21)*. Association for Computing Machinery, New York, NY, USA, Article 31, 1–3. [DOI](#)

GRANTS AND AWARDS

In review: NSF - Improving Undergraduate STEM Education (IUSE: EDU) Jan. 2024
Grant written and submitted with Dr. Barbara Ericson

Rackham Student Research Grant Aug. 2023
University of Michigan

Honourable Mention Award Apr. 2020
The ACM CHI Conference on Human Factors in Computing Systems (CHI'20)

Scholarship of Excellence in Art-Related Activities Sept. 2018
Tsinghua University

Hengda Scholarship of Overall Excellence (top 5%) Sept. 2017
Tsinghua University

SERVICE

Peer review for CHI, SIGCSE TS, ITiCSE, and ICER
Ph.D Student Representative for UMSI DEI Committee Aug. 2023 - present

TEACHING EXPERIENCE

SI 671 - Data Mining Ann Arbor, MI, USA
Graduate Student Instructor Fall 2022
Master Program in Information Science at UMSI

SIADS 505 - Data Manipulation Ann Arbor, MI, USA
Graduate Student Instructor Fall 2021
Master of Applied Data Science (MADS) Program at UMSI

SIADS 631 - Experiment Design and Analysis Ann Arbor, MI, USA
Graduate Student Instructor Fall 2021
Master of Applied Data Science (MADS) Program at UMSI

INDUSTRIAL EXPERIENCE

Google Beijing, China
Engineering Practicum Intern Jul. 2018 – Sept. 2018

RESEARCH AND TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C/C++, C#, MATLAB
Frameworks and Applications: Node.js, React.js, Flask, Django, Android, Unity, PyTorch
Research Methods: Mixed-methods research, design-based research, system building, data analysis