

Zihan Wu

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Third-Year Ph.D. student
University of Michigan, School of Information
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RESEARCH INTERESTS

Human-Computer Interaction, Educational Technology
Field Prelim Topic: Providing Personalized Scaffolding with Parsons Problems in Introductory Programming Education

EDUCATION

University of Michigan, Ann Arbor Ann Arbor, MI, USA
Ph.D. in Information Aug. 2020 – Present
Advisors: Barbara Ericson, Christopher Brooks

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

PROFESSIONAL EXPERIENCE

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

PUBLICATIONS

Xin Yi, Yiqin Lu, Ziyin Cai, **Zihan Wu**, Yuntao Wang, Yuanchun Shi. (2022)
GazeDock: Gaze-Only Menu Selection in Virtual Reality using Auto-Triggering Peripheral Menu *IEEE Conference on Virtual Reality 2022*

Zihan Wu, Barbara Ericson, Christopher Brooks. (2021)
Regex Parsons: Using Horizontal Parsons Problems to Scaffold Learning Regex. *Koli Calling International Conference on Computing Education Research (Koli Calling '21) (Poster)*

Zihan Wu, Chun Yu, Xuhai Xu, Tong Wei, Tianyuan Zou, Ruolin Wang, Yuanchun Shi. (2021)
LightWrite: Teach Handwriting to The Visually Impaired with A Smartphone. *CHI Conference on Human Factors in Computing Systems (CHI '21)*.

April Y. Wang, **Zihan Wu**, Christopher Brooks, Steve Oney. (2020)
Callisto: Capturing the "Why" by Connecting Conversations with Computational Narratives. *CHI Conference on Human Factors in Computing Systems (CHI '20)*.

Honourable Mention Award (top 5%)

UNDER REVIEW

April Yi Wang, **Zihan Wu**, Christopher Brooks, Steve Oney.

”Don’t Step on My Toes”: Conflict-Free Real-Time Collaborative Editing in Computational Notebooks
Submitted to CHI’23

Zihan Wu, Christopher Brooks, Barbara Ericson.

Investigating the Effect of Using Horizontal Parsons Problems to Scaffold Learning Regular Expressions
Submitted to TOCE (ACM Transactions on Computing Education)

AWARDS

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

Awarded by Tsinghua University

Hengda Scholarship of Overall Excellence (top 5%)

Sept. 2017

Awarded by Tsinghua University

SERVICE

Peer Reviewing

ACM Conference on Human Factors in Computing Systems (CHI’21), Late Breaking Work

TEACHING EXPERIENCE

SI 671 - Data Mining

Ann Arbor, MI, USA

Graduate Student Instructor

Fall 2021

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

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, usability testing, data analysis