Ashley Ge Zhang

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RESEARCH INTERESTS

Human-Computer Interaction; Visualization; Learning at Scale; Educational Technology; Programming Support

EDUCATION

University of Michigan, Ann Arbor

Ph.D. in Information Science 2021.09-present

Advisor: Steve Oney

Peking University

B.S. in Intelligence Science 2016.09-2021.07

EXPERIENCE

University of Michigan, Ann Arbor

MI, United States

Graduate student and researcher 2021.09-present

Advised by Prof. Steve Oney, University of Michigan, Ann Arbor

Adobe Research San Jose, CA, USA

Research Scientist Intern 2024.05-2024.08

Mentored by Dr. Jane Hoffswell

Peking University

Beijing, China

Researcher 2020.09-2021.05

Advised by Prof. Tao Xie, Peking University

University of Washington, Seattle WA, United States

Remote visiting student 2020.07-2021.02

Advised by Prof. Amy X. Zhang, University of Washington, Seattle

University of Washington, Seattle WA, United States

Visiting student 2019.09-2019.12

Advised by Prof. Tim Althoff, University of Washington, Seattle

PUBLICATIONS - CONFERENCE PAPERS

1. **Ashley Ge Zhang**, Victor Soares Bursztyn, Gromit Chan, Shunan Guo, Eunyee Koh, Steve Oney, Jane Hoffswell

ConvoMap: Interactive Visualizations for Exploring Complex Conversations in Multi-Agent Systems 2025 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)

2. Yinuo Yang, Ashley Ge Zhang, Steve Oney, April Yi Wang

SPARK: Real-Time Monitoring of Multi-Faceted Programming Exercises

2025 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)

3. Ashley Ge Zhang, Xiaohang Tang, Steve Oney, Yan Chen

CFlow: Supporting Semantic Flow Analysis of Students' Code in Programming Problems at Scale

ACM Conference on Learning at Scale, 2024

Best Paper Award

4. **Ashley Ge Zhang**, Yan Chen, Steve Oney

RunEx: Augmenting Regular-Expression Code Search with Runtime Values

2023 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)

5. Ashley Ge Zhang, Yan Chen, Steve Oney

VizProg: Identifying Misunderstandings by Visualizing Students' Coding Progress Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems Honorable Mention Award

6. April Yi Wang, Andrew Head, Ashley Ge Zhang, Steve Oney, Christopher Brooks Colaroid: A Literate Programming Approach for Authoring Explorable Multi-Stage Tutorials Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems Honorable Mention Award

7. Mike Merrill, Ashley Ge Zhang, Tim Althoff

Mining Collective Data Science Knowledge from Code on the Web to Suggest Alternative Data Analysis Approaches

Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining, 2021

PUBLICATIONS - JOURNAL PAPERS

1. Ashley Ge Zhang*, Mike Merrill*, Yang Liu, Jeffrey Heer, Tim Althoff

CORAL: COde RepresentAtion Learning with Weakly-Supervised Transformers for Analyzing Data Analysis

EPJ Data Science, 2022

PUBLICATIONS - POSTERS AND WORKSHOPS

1. Ashley Ge Zhang

Scaling Code Understanding for Introductory Programming in the AI Era Extended Abstracts of the 2025 CHI Conference on Human Factors in Computing Systems

2. **Ashley Ge Zhang**, Xiaohang Tang, Steve Oney, Yan Chen

Demonstration of CFlow: Supporting Semantic Flow Analysis of Students' Code in Programming Problems at Scale

Demos at the ACM Conference on Learning at Scale

3. Shiyu Xu, Ashley Ge Zhang, Steve Oney

How Pairing by Code Similarity Influences Discussions in Peer Learning Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems

OPEN-SOURCED PROJECTS

• CORAL: COde Representation Learning for Analyzing Data Analysis https://github.com/behavioral-data/CORAL Autumn, 2019

AWARDS

- Rackham Conference Travel Grant, 2022-2024
- UMSI Travel Grant, 2021-2024
- Best Paper Award, ACM L@S, 2024
- Special Recognitions for Outstanding Reviews, CHI 2024
- Honorable Mention Award, ACM CHI, 2023
- People's Choice Prize, Google Girls' Hackathon (as team leader), 2019
- 2nd Prize of ACM Competition, Peking University, 2017

SERVICE

Program Committee

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

2025

 ACM Symposium on User Interface Software and Technology (UIST) 	2024-2025
 ACM Creativity and Cognition (C&C) 	2025
• ACM Conference on Human Factors in Computing Systems (CHI), Late Breaking Work	2025
 ACM Conference on Human Factors in Computing Systems (CHI) 	2023-2024
 ACM Conference on Computer Supported Cooperative Work (CSCW) 	2023-2024
 ACM Conference on Human Factors in Computing Systems (CHI), Late Breaking Work 	2022-2023
• The Journal of Computer Languages (COLA)	2022
• IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)	2022
MENTORING	
Yinuo Yang Undergraduate student at UMich, Ann Arbor	2024-2025
Shiyu Xu Master student at UMich, Ann Arbor	2021