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

Adobe Research   San Jose, CA, USA
Research Scientist Intern   *2024.05-present*
Supervised by Dr. Victor Soares Bursztyn and Dr. Jane Hoffswell

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

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**, 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

2. **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)

3. **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

4. 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

5. 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**, 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

2. 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   *Autumn, 2019*
  https://github.com/behavioral-data/CORAL

AWARDS

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

PEER REVIEW

• ACM Symposium on User Interface Software and Technology (UIST)	*2024*
• 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*