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**, 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

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
   Honorable Mention Award

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
   Honorable Mention Award

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
- Special Recognitions for Outstanding Reviews, CHI 2024
- Rackham Conference Travel Grant, 2022-2023
- UMSI Travel Grant, 2021-2023
- 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*

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*

MENTORING

- **Yinuo Yang** Undergraduate student at UMich, Ann Arbor *2024*
- **Shiyu Xu** Master student at UMich, Ann Arbor *2021*