

# Ashley Ge Zhang

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## RESEARCH INTERESTS

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

## EDUCATION

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### 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

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### University of Michigan, Ann Arbor

*Graduate student and researcher*

MI, United States

2021.09-present

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

### Peking University

*Researcher*

Beijing, China

2020.09-2021.05

Advised by Prof. Tao Xie, Peking University

### University of Washington, Seattle

*Remote visiting student*

WA, United States

2020.07-2021.02

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

### University of Washington, Seattle

*Visiting student*

WA, United States

2019.09-2019.12

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

## PUBLICATIONS - CONFERENCE PAPERS

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1. **Ashley G. 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
2. April Wang, Andrew Head, **Ashley G. 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
3. Mike Merrill, **Ashley G. Zhang** and 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

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1. **Ashley G. 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

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1. Shiyu Xu, **Ashley G. 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

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

## AWARDS

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- 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

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- ACM Conference on Computer Supported Cooperative Work (CSCW) *2023*
- ACM Conference on Human Factors in Computing Systems (CHI), Late Breaking Work *2023*
- ACM Conference on Human Factors in Computing Systems (CHI) *2023*
- The Journal of Computer Languages (COLA) *2022*
- ACM Conference on Human Factors in Computing Systems (CHI), Late Breaking Work *2022*
- IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC) *2022*