Ashley G. Zhang

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RESEARCH INTERESTS

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

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*

PUBLICATIONS

1. **Ashley G. Zhang**, Mike Merrill*, Yang Liu, Jeffrey Heer, Tim Althof
   CORAL: COde RepresentAtion Learning with Weakly-Supervised Transformers for Analyzing Data Analysis
   EPJ Data Science, 2022
2. 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

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
Designed and developed tools to support effective communication about code.

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
Designed a computational notebook branching tool to support data science collaboration.

University of Washington, Seattle WA, United States
Visiting student *2019.09-2019.12*
Advised by Prof. Tim Althoff, University of Washington, Seattle
Built a machine learning model to analyze data analysis behavior extracted from computational notebooks.
Built a machine learning model to support decision making and alternative suggestion in multiverse analysis for robust data science.

OPEN-SOURCED PROJECTS

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

AWARDS

- People's Choice Prize, Google Girls' Hackathon (as team leader), 2019
- 2nd Prize of ACM Competition, Peking University, 2017

SKILLS

- Interview, Thematic Analysis, Grounded Theory
- Survey Design, Experimental Design, Statistical Modeling, Machine Learning, Natural Language Processing
- Python, JavaScript/TypeScript, HTML&CSS, React