

# Chenyang Yang

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## EDUCATION

**Carnegie Mellon University**, Pittsburgh, Pennsylvania, USA

Ph.D. in Software Engineering

Aug 2021 – Present

- Adviser: Prof. Christian Kästner, Prof. Sherry Tongshuang Wu
- Focus: SE+AI, Human-AI interaction, AI model testing and evaluation.

**Peking University**, Beijing, China

B.S. (Summa Cum Laude) in Computer Science, Turing Class

Sep 2017 – Jul 2021

- Adviser: Prof. Yingfei Xiong
- Cumulative GPA: 3.83 / 4.00, Ranking: 5 / 230

## PUBLICATIONS

- [1] Jenny T Liang, **Chenyang Yang**, and Brad A Myers. A Large-Scale Survey on the Usability of AI Programming Assistants: Successes and Challenges. In *Proceedings of the ACM/IEEE 46th International Conference on Software Engineering (ICSE)*, 2024.
- [2] Wanqin Ma\*, **Chenyang Yang\***, and Christian Kästner. (Why) Is My Prompt Getting Worse? Rethinking Regression Testing for Evolving LLM APIs. In *Proceedings of the International Conference on AI Engineering - Software Engineering for AI (CAIN)*, 2024.
- [3] Yuan-An Xiao, **Chenyang Yang**, Bo Wang, and Yingfei Xiong. Accelerating Patch Validation for Program Repair with Interception-Based Execution Scheduling. In *IEEE Transactions on Software Engineering (TSE)*, 2024.
- [4] **Chenyang Yang**, Rishabh Rustogi, Rachel A Brower-Sinning, Grace Lewis, Christian Kästner, and Tongshuang Wu. Beyond Testers' Biases: Guiding Model Testing with Knowledge Bases using LLMs. In *Findings of the Association for Computational Linguistics: EMNLP 2023 (EMNLP)*, 2023.
- [5] **Chenyang Yang**, Rachel A Brower-Sinning, Grace Lewis, Christian Kästner, and Tongshuang Wu. Capabilities for Better ML Engineering. In *Proceedings of the AAAI-23 Workshop on Artificial Intelligence Safety (SafeAI)*, February 2023.
- [6] **Chenyang Yang**, Rachel A Brower-Sinning, Grace Lewis, and Christian Kästner. Data Leakage in Notebooks: Static Detection and Better Processes. In *Proceedings of the 37th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, New York, NY: ACM Press, October 2022.
- [7] **Chenyang Yang**, Shurui Zhou, Jin L.C. Guo, and Christian Kästner. Subtle Bugs Everywhere: Generating Documentation for Data Wrangling Code. In *Proceedings of the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, Los Alamitos, CA: IEEE Computer Society, November 2021.
- [8] Yifan Chen, **Chenyang Yang**, Xin Zhang, Yingfei Xiong, Hao Tang, Xiaoyin Wang, Lu Zhang. Accelerating Program Analyses in Datalog by Merging Library Facts. *International Static Analysis Symposium (SAS)*, October 2021.

## INVITED TALKS

- Capabilities for Better ML Engineering, Siemens, March 2023.

## PROFESSIONAL SERVICE

- **Reviewer** for EMNLP 2023.
- **Shadow Reviewer** for ICSE (2021 - 2023), FSE (2021 - 2023), and ASE (2020 - 2021).
- **Student Volunteer** for ASE 2020.

## TEACHING EXPERIENCE

**Large Language Model Systems**, Carnegie Mellon University

Jan 2024 – May 2024

- Designed homework assignments and coordinated student projects and presentations.

**Introduction to Computer Systems (Seminar)**, Peking University

Sep 2020 – Jan 2021

- Designed and led weekly recitations for a group of 14 students

## AWARDS & HONORS

- Award for Research Excellence, Peking University Oct 2020
- Turing Scholarship, Peking University Dec 2019

- Award for Academic Excellence, Peking University
- May 4th Scholarship, Peking University

Nov 2018

Nov 2018

## SKILLS

L<sup>A</sup>T<sub>E</sub>X, Python, C/C++, Java, JavaScript/TypeScript, Datalog.