Yifeng Ding

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Research Interests

My research interest lies in Large Language Models (LLMs) for Code. My ongoing works include improving LLMs with **Instruction Tuning** and **Mixture-of-Experts** (**MoE**) for better code generation and automated debugging.

Education

Since 2022 **University of Illinois Urbana-Champaign (UIUC)**,
Ph.D. student in Computer Science,
Advisor: Prof. Lingming Zhang

2018–2022 **Tsinghua University**,
B.S. in Software Engineering,
Double Major: B.S. in Business Administration

Publications

[1] **Yifeng Ding**, Jiawei Liu, Yuxiang Wei, and Lingming Zhang. "$\mathcal{X}$FT: Unlocking the Power of Code Instruction Tuning by Simply Merging Upcycled Mixture-of-Experts". [preprint].

[2] Yuxiang Wei, Zhe Wang, Jiawei Liu, **Yifeng Ding**, and Lingming Zhang. "Magicoder: Source Code Is All You Need". ***arXiv***. [preprint].

[3] Chunqiu Steven Xia, **Yifeng Ding**, and Lingming Zhang. "The Plastic Surgery Hypothesis in the Era of Large Language Models". *38th IEEE/ACM International Conference on Automated Software Engineering (**ASE 2023**)*. [paper].

[4] Quan Zhang, Yongqiang Tian, **Yifeng Ding**, Shanshan Li, Chengnian Sun, Yu Jiang, and Jiaguang Sun. "CoopHance: Cooperative Enhancement for Robustness of Deep Learning Systems". *32nd ACM SIGSOFT International Symposium on Software Testing and Analysis (**ISSTA 2023**)*. [paper].

[5] Quan Zhang, **Yifeng Ding**, Yongqiang Tian, Jianmin Guo, Min Yuan, and Yu Jiang. "AdvDoor: Adversarial Backdoor Attack of Deep Learning System". *30th ACM SIGSOFT International Symposium on Software Testing and Analysis (**ISSTA 2021**)*. [paper].

Academic Service

Reviewer ACL/ARR 2024 Feb

Organizing Committee The First International Workshop on Large Language Models for Code (LLM4Code 2024), co-located with ICSE 2024

Talk

[1] Uber Programming Systems Team: Equipping Large Language Models with Domain-Specific Knowledge for Automated Program Repair

Honors & Awards

2021 **Research Excellence Scholarship**, Tsinghua University

2019 **Academic Excellence Scholarship**, Tsinghua University