

# Aoyang Fang

Ph.D. Student, School of Data Science, The Chinese University of Hong Kong, Shenzhen

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🌐 <https://profile.aoyangfang.top/>

🐙 <https://github.com/Lincyaw>

## Research Interests

My research focuses on leveraging AI for Software Engineering, particularly LLM-based approaches, to advance root cause localization and enhance the stability, reliability, and resilience of large-scale software systems.

## Education

### Ph.D. in Computer Science

The Chinese University of Hong Kong, Shenzhen

2024 – Present

Shenzhen, China

### MPhil. in Computer Information and Engineering

The Chinese University of Hong Kong, Shenzhen

2023 – 2024

Shenzhen, China

### B.Sc. in Computer Science and Technology

Harbin Institute of Technology, Shenzhen

2018 – 2022

Shenzhen, China

## Publications

- [1] Z. Yu\*, A. Fang\*, M. Ma, *et al.*, “Triangle: Empowering incident triage with multi-agent,” *Proceedings of the 40th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, 2025, pp. 1–12.
- [2] Q. Mang\*, A. Fang\*, B. Yu, H. Chen, and P. He, “Testing graph database systems via equivalent query rewriting,” *Proceedings of the IEEE/ACM 46th International Conference on Software Engineering (ICSE)*, 2024, pp. 1–12.
- [3] A. Fang, R. Zhou, X. Tang, and P. He, “Rpcover: Recovering grpc dependency in multilingual projects,” *2023 38th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, IEEE, 2023, pp. 1930–1939.

## Professional Experience

### Research Intern

Bytedance ByteBrain

Led the research on root cause analysis

2025.8 – now

### Research Intern

Microsoft Research Asia

Led the research on automated incident triage

2025.1 – 2025.5

### Full-time Backend Developer

Shopee Pte. Ltd

Backend development and system implementation

2022.3 – 2022.9

## Academic Service

### Artifact Evaluation Committee:

- 2025: ICSE, USENIX Security
- 2024: ISSRE, ATC, OSDI, ISSTA, ECOOP, TACAS

### Reviewer:

- TOSEM 2024

### Teaching Assistant:

- CSC4001 Software Engineering, Spring 2025
- CSC1001 Introduction to Computer Science: Programming Methodology, Fall 2025
- AIE1001 Introduction to AI Programming, Fall 2025

## Awards & Honors

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- School of Data Science Merit Scholarship, 2024
- The 1st China Graduate Operating System Open Source Innovation Competition, Third Prize, 2024
- ECOOP'24 Distinguished Artifact Reviewer Award, 2024
- ASE'23 Distinguished Paper Award of Industry Challenge Track, 2023
- National Student Computer System Ability Competition, Operating System Design Competition, Second Prize, 2021
- Harbin Institute of Technology (Shenzhen) Undergraduate Academic Scholarship, 2021
- Harbin Institute of Technology (Shenzhen) "Outstanding Student Leaders" Scholarship, 2021