

HAOYU GAO

700 Swanston Street, Melbourne, Victoria, Australia

haoyug1@student.unimelb.edu.au

EDUCATION

The University of Melbourne

Jan 2023 - Present

Doctor of Philosophy - Engineering and IT

Supervisors: A/Prof. Christoph Treude and Dr. Mansooreh Zahedi

Research Topic: *Mitigating Knowledge Barriers in Traditional and AI-Based Software Development.*

The University of Melbourne

Feb 2021 - Dec 2022

Master of Information Technology

WAM: 86.7/100

Fuzhou University

Sep 2016 - July 2020

Bachelor of Science - Mathematics and Applied Mathematics

WAM: 86.6/100

PUBLICATIONS

H. Gao, C. Treude, and M. Zahedi. Adapting Installation Instructions in Rapidly Evolving Software Ecosystems: In IEEE Transactions on Software Engineering, 2025. To appear. **(core A*)**

H. Gao, C. Treude, and M. Zahedi. “Evaluating Transfer Learning for Simplifying GitHub READMEs”. In *ESEC/FSE’23: Proceedings of the Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, 2023*. **(core A*)**

H. Gao, M. Zahedi, C. Treude, S. Ronsenstock, and M. Cheong. “Documenting Ethical Considerations in Open Source AI Models”. In *ESEM’24: 18th International Symposium on Empirical Software Engineering and Measurement, 2024*. **(core A)**

H. Lin, C. Liu, **H. Gao**, P. Thongtanunam, and C. Treude. CodeReviewQA: The Code Review Comprehension Assessment for Large Language Models. In *Findings of ACL’25: The 63rd Annual Meeting of the Association for Computational Linguistics* **(core A*)**

P. Banyongrakkul, M. Zahedi, P. Thongtanunam, C. Treude, and **H. Gao**. From Release to Adoption: Challenges in Reusing Pre-trained AI Models for Downstream Developers. In *ICSME’25: 41st International Conference on Software Maintenance and Evolution* **(core A)**

H. Gao, M. Zahedi, W. Jiang, H. Lin, J. Davis, and C. Treude. AI Safety in the Eyes of the Downstream Developer: A First Look at Concerns, Practices, and Challenges. **(Under submission)**

EXPERIENCE

Teaching Assistant, the University of Melbourne

Oct 2023- Present

- Tutored Course: COMP90041 Programming and Software Development
- Marked Courses: COMP90041 Programming and Software Development, SWEN90016 Software Processes and Management, COMP90051 Statistical Machine Learning

Skills: Java Programming Language, Object-Oriented Programming, Software Development Processes, Agile Development, Machine Learning, University Teaching.

Research Assistant, the University of Melbourne

Dec 2023- May 2024

Skills: Mining software repositories, Qualitative analysis, Ethics in Machine Learning

Machine Learning Internship, Haier Group Corporation

Oct 2021- Feb 2022

Skills: Machine Learning, Data analysis

SERVICES AND ACTIVITIES

Journal Review

- Automated Software Engineering Journal.

Conference Review

- Junior PC member for 22nd International Conference on Mining Software Repositories (MSR'25).

Sub-reviewer

TOSEM, ICSE'25, ESEM'24, APSEC'24.

Student Volunteer

Event: ICSE 2023 - International Conference on Software Engineering

Skills: registration assistance and presentation session support.

SKILLS

Programming

Python, Java, JavaScript, R.

Research

Data mining, Interview-based study, Qualitative analysis, Machine learning, HPC cluster.

Languages

Mandarin, English.

AWARDS AND SCHOLARSHIPS

2022 Dean's Honours List, The University of Melbourne

July 2023

The Dean's Honours List recognises outstanding academic performance in the academic year, representing the top five per cent of students enrolled in an engineering or information technology master by coursework program.

Melbourne Research Scholarship, The University of Melbourne

Jan 2023

This scholarship is rewarded to high-achieving students participating in research activities.

Melbourne Graduate Scholarship, The University of Melbourne

Jan 2022

This scholarship is rewarded coursework students in recognition of their academic achievements.