

Haichuan Hu

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 [Google Scholar](#) |  github.com/Tomsawyerhu

RESEARCH INTERESTS

Emotional Support, Personalized Alignment, Large Language Models, LLM Agents, and AI for Software Engineering.

EDUCATION

- The Hong Kong Polytechnic University** Jan. 2026 - Present
Ph.D. Student, Department of Computing
◦ Research Area: Emotional Support
◦ Supervisor: Prof. Wenjie Li Hong Kong SAR
- Nanjing University** Sep. 2022 - Jun. 2024
Master of Engineering in Software Engineering
◦ GPA: 85/100; Supervisor: Prof. Zhenyu Chen Nanjing, China
- Nanjing University** Sep. 2018 - Jun. 2022
Bachelor of Engineering in Software Engineering
◦ GPA: 87/100 (top 25%); Supervisor: Prof. Zhenyu Chen Nanjing, China

PEER-REVIEWED PUBLICATIONS

- Haichuan Hu**, Ye Shang, Weifeng Sun, and Quanjun Zhang. **PSearch: Search-based Patch Generation in the Era of LLM-based Automated Program Repair**. *41st IEEE/ACM International Conference on Automated Software Engineering (ASE)*, 2026. CCF-A.
- Quanjun Zhang, Ye Shang, **Haichuan Hu**, Chunrong Fang, Zhenyu Chen, and Liang Xiao. **ComPass: Contrastive Learning for Automated Patch Correctness Assessment in Program Repair**. *Empirical Software Engineering*, 31(6):157, 2026. CCF-B.
- Congqing He*, **Haichuan Hu***, Yanli Li, Hao Zhang, and Quanjun Zhang. **A Survey of Large Language Models for Legal Tasks: Progress, Prospects and Challenges**. *Computer Science Review*, 60:100906, 2026. JCR Q1.
- Hao Zhang, Jiahao Wang, Zhenke Duan, Xin Yin, **Haichuan Hu**, Hualong Chen, Suyi, Congqing He, Yike Tan, and Yu-N Cheah. **Tree-CoT-RT: An Explainable Multi-Path Tree-Guided Chain-of-Thought and Reinforcement Learning Framework for Aspect Sentiment Quad Prediction**. *Findings of the Association for Computational Linguistics: ACL 2026*, pp. 16372–16391, 2026. ACL Findings.
- Haichuan Hu**, Ye Shang, Guolin Xu, Congqing He, and Quanjun Zhang. **Can GPT-O1 Kill All Bugs? An Evaluation of GPT-Family LLMs on QuixBugs**. *IEEE/ACM International Workshop on Automated Program Repair (APR@ICSE)*, pp. 11–18, 2025. Workshop.
- Quanjun Zhang, Juan Zhai, Chunrong Fang, Jiawei Liu, Weisong Sun, **Haichuan Hu**, and Qingyu Wang. **Machine Translation Testing via Syntactic Tree Pruning**. *ACM Transactions on Software Engineering and Methodology*, 33(4), 2024. CCF-A.

*Equal contribution.

PREPRINTS

- Haichuan Hu**, Xiao Yang, Jiashuo Wang, Quanjun Zhang, Mingni Tang, Changhe Song, Ye Shang, Congqing He, and Wenjie Li. **Personalized Alignment in the Era of LLMs: A Review of Methodologies, Datasets, Evaluation, and Applications**. *TechRxiv*, 2026. Preprint.

INDUSTRY AND RESEARCH EXPERIENCE

- Alibaba Cloud Computing Co., Ltd.** Jul. 2024 - Dec. 2025
Backend Developer, PolarDB
◦ Contributed to the product development of PolarDB, Alibaba Cloud's cloud-native relational database. Hangzhou, China
- Microsoft** Apr. 2024 - Jun. 2024
Copilot and Incident Analytics Project
◦ Built an LLM-based incident consultation system and an internal Copilot knowledge question-answering system with retrieval and document synchronization. Suzhou, China
- Alibaba.com** Jun. 2023 - Sep. 2023
Software Engineering Intern
◦ Designed and executed a MySQL migration of approximately 200 million records while preserving data consistency and integrity. Hangzhou, China
- Alibaba Cloud Computing Co., Ltd.** Jun. 2021 - Aug. 2021
Software Engineering Intern
◦ Managed MySQL cluster machines and developed Go scripts for routine health checks and failure recovery. Hangzhou, China

HONORS AND AWARDS

- First Prize**, vivo Hackathon 2023
- Third Prize**, Citi Financial Innovation Application Competition 2020
- Second Prize**, People's Scholarship, Nanjing University 2019

LANGUAGES

English: TOEFL 102; IELTS 6.5; CET-6 588; CET-4 587

Chinese: Native