

HAOCHEN LI

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EDUCATION

Nanyang Technological University, Singapore Jan. 2022 - Nov. 2025 (Expected)
Ph.D Student in School of Computer Science and Engineering
Supervisor: Prof. Chunyan Miao

Beihang University, Beijing, China Sept. 2017 - Jun. 2021
B.Eng in Electrical Engineering

RESEARCH INTERESTS

My research aims to bridge programming language and natural language through language models. Specifically, I focus on code search (code retrieval), code generation, and the synergy of the two through the Generation-Augmented Retrieval and Retrieval-Augmented Generation framework.

SELECTED PUBLICATIONS

- **Haochen Li**, Wanjin Feng, Xin Zhou, Zhiqi Shen. GiFT: Gibbs Fine-Tuning for Code Generation (Preprint'25)
- **Haochen Li**, Jonathan Leung, Zhiqi Shen. Towards Goal-oriented Prompt Engineering for Large Language Models: A Survey (Preprint'24)
- **Haochen Li**, Xin Zhou, Zhiqi Shen. Rewriting the Code: A Simple Method for Large Language Model Augmented Code Search (ACL'24 Oral)
- **Haochen Li**, Xin Zhou, Luu Anh Tuan, Chunyan Miao. Rethinking Negative Pairs in Code Search (EMNLP'23)
- **Haochen Li**, Chunyan Miao, Cyril Leung, Yanxian Huang, Yuan Huang, Hongyu Zhang, Yanlin Wang. Exploring Representation-level Augmentation for Code Search (EMNLP'22)

EMPLOYMENT HISTORY

Microsoft Research Asia Nov. 2021 - Dec. 2021
Research Intern | Advisor: Yanlin Wang
Topic: Code Search

Mech-mind Robotics Technologies Co., Ltd. Dec. 2020 - Apr. 2021
Computer Vision Algorithm Engineer Intern
Topic: Object Detection, Image Segmentation and Anomaly Detection

Institute of Software, Chinese Academy of Sciences Jan. 2020 - Aug. 2020
Research Intern | Advisor: Jingzheng Wu
Topic: Code Representation Learning

ACADEMIC ACTIVITIES

- Program Committee / Reviewer:
 - 2025: ICML, NeurIPS, ACL ARR
 - 2024: NeurIPS, ICLR, ACL ARR (**EMNLP 2024 Outstanding Reviewer**)
 - 2023: ACL, EMNLP
 - 2022: EMNLP
- Teaching Assistant:
 - NTU CE1103 Introduction to Computational Thinking & Programming
 - NTU CE1115 Introduction to Data Science & Artificial Intelligence