HAOCHEN LI

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EDUCATION

Nanyang Technological University, Singapore   Jan. 2022 - Dec. 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 (**ACL'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**)

WORKING EXPERIENCE

Microsoft Research Asia   Nov. 2021 - Dec. 2021
Research Intern | Advisor: Prof. 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: Prof. 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