

Hao Guan

Guanhao2022@sjtu.edu.cn | github.com/tubehao



EDUCATION

Shanghai Jiao Tong University

Bachelor of Computer Science and Technology (IEEE Honor Class)

- Core Academic Credits: 92.88, GPA: 4.06/4.3, Rank: 8/94

Sept. 2022 – Present

Shanghai, China

EXPERIENCE

National Undergraduate Innovative Test Program

Shanghai Jiao Tong University

- Situation Awareness
- Advised by Research Assistant. Yutong Liu.

May. 2023 – Oct. 2023

Shanghai, China

Xtra Computing Group

National University of Singapore

- Graph-System Research
- Summer visit student advised by Prof. Bingsheng He.

June. 2024 – Sept. 2024

Singapore, Singapore

Apex Data & Knowledge Management Lab

Shanghai Jiao Tong University

- Knowledge Tracing
- LLM Agent
- Advised by Prof. Weinan Zhang.

Sept. 2023 – Present

Shanghai, China

PUBLICATIONS

SINKT: A Structure-Aware Inductive Knowledge Tracing Model with Large Language Model

Lingyue Fu, **Hao Guan**, Kounianhua Du, Jianghao Lin, Wei Xia, Ruiming Tang, Yasheng Wang, Weinan Zhang and Yong Yu

- Proposed a novel Structure-Aware INductive Knowledge Tracing Model with Large Language Model.
- Utilize LLMs for the first time to carefully inject open-world knowledge.

Jan. 2024 – May. 2024

CIKM 2024

CoreCodeBench: A Configurable Multi-Scenario Repository-Level Benchmark

Lingyue Fu, **Hao Guan**, Bolun Zhang, Haowei Yuan, Yaoming Zhu, Jun Xu, Zongyu Wang, Lin Qiu, Xunliang Cai, Xuezhi Cao, Weiwu Liu, Weinan Zhang, Yong Yu

- Introduces CorePipe and CoreCodeBench, a comprehensive framework designed to evaluate Large Language Models within realistic, multi-scenario software engineering contexts.
- Addresses existing benchmark limitations by simulating complex workflows to provide deeper insights into model performance on real-world coding tasks.

Jan. 2025 – June. 2025

Preprint

PROJECTS

Noodle Scholar | Python, Database, Website, Search Engine, Frontend

- An academic search tool designed for ICE2604: Introduction to Electrical Engineering.
- Develop a website featuring distinct front-end and back-end components for academic paper search functionality.
- Implement features including user authentication, CAPTCHA verification, AI-powered Q&A, and more.
- Recognized as the **Top Project** in the course.
- View the project at <https://github.com/xshenhan/Noodle-Scholar>

Sept. 2023 – Jan. 2024

Chord Implementation and Optimization | *P2P, Chord, Network, Neutral Network* May. 2024 – June. 2024

- Implemented the Chord protocol.
- Enhanced the updating of the finger table using linear prediction and LSTM neural network models, etc.
- Achieved a 33.4% improvement compared to the baseline in specific scenarios.
- Scored **99/100**.
- View the project at <https://github.com/tubehao/cs3611>

HONORS & AWARDS

China National Scholarship	2023 – 2024
Outstanding Scholarship of the 88th Grade Alumni Fund	2024 – 2025
Zhiyuan Honor Scholarship	2023 – 2025
SMC Takata Scholarship	2022 – 2023

TECHNICAL SKILLS

Programming: Python, C/C++, JavaScript, HTML/CSS, Flask, Verilog, Cypher.

Developer Tools: Git, Docker, Neo4j, VS Code, Clion.