

Hui Li

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Education

South China University of Technology (SCUT)

B.Eng in Software Engineering | advisor: [Prof. Deyou Tang](#)
• National Scholarship 2020 & National Scholarship 2021;

Sep. 2020 - Jul. 2024
Guangzhou

The Chinese University of Hong Kong (CUHK), CSE

PhD Student, Husky Data Lab | advisor: [James Cheng](#)
• Vector Search, Machine Learning Systems

Sep. 2024 - present
Hong Kong

Contest Experience

ACM International Collegiate Programming Contest (ACM-ICPC)

Asia East Continent Final (2021) **Gold Medal**
+ **6 Regional Gold Medals**: Nanjing; Xi'an; Macau; Jinan (2020 & 2021); Kunming;

China Collegiate Programming Contest (CCPC)

CCPC Final (2021) **Silver Medal First Place**
+ **2 Regional Gold Medals**: Haerbin; Weihai (2020);
+ **1 Regional Silver Medal**: Weihai (2021);

GuangDong Province Collegiate Programming Contest (GDCPC 2021), **Second Place**

IOI China Team Selection Competition (CTCS 2019), **Bronze Medals**

National Olympiad in Informatics (NOI 2019), **Bronze Medals**

CCF Big Data and Computing Intelligence Contest (BDCl 2022), **Champion**

Huawei ICT Algorithm Diamond Contest, **Champion**

Publications

SAQ: Pushing the Limits of Vector Quantization through CodeAdjustment and Dimension Segmentation

- Hui Li, Shiyuan Deng, Xiao Yan, Xiangyu Zhi, James Cheng
- Proceedings of SIGMOD 2026

Description: The best vector quantization methods in both accuracy and performance

Links: [Paper] [Code]

Gorgeous: Data Layout for Disk-Resident High-Dimensional Vector Search

- Peiqi Yin, Xiao Yan, Qihui Zhou, Hui Li, Xiaolu Li, et al.

Description: Novel approach for optimizing disk-resident vector search systems

Links: [Paper] [Code]

Internship

Huawei Technologies

Software Algorithm Engineer

Dongguan, Dec. 2022 - Feb. 2023

C++ STL, Algorithm Optimize

- Optimize performance in the reset scenario and minimize overall computational workload.
- Implement compilation-time conflict detection for lock-free Data Center.

JQ Investments

Development Intern

Shanghai, Jun. 2023 - Sep. 2023

C++, Quantitative Trading

Training in quantitative trading domain knowledge and frameworks, including: Quant Research/Market Study; Exchange Order Book Reconstruction; Backtesting Frameworks;

Honor and Scholarship

- 2021 National Scholarship
- 2022 National Scholarship
- 2021 SCUT Pacemaker to Merit Student, Nomination Award (top 0.1%)
- 2021 Excellent Student Cadre
- 2022 SCUT-Tencent Scholarship
- 2022 SCUT-Huawei Scholarship
- 2023 Huawei Euler&Gauss Open Source Contribution Scholarship

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