

# Yulong Hui

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## RESEARCH INTERESTS

Database System, Cloud & ML System

## EDUCATION

### **Tsinghua University**

Ph.D. student in Institute for Interdisciplinary Information Sciences (Yao Class)

Sep 2022 - Present

Advisor: Huanchen Zhang

### **Shanghai Jiaotong University**

B.S. in Computer Science and Engineering

GPA: 90.3/100

Sep 2018 - June 2022

Member of Zhiyuan Honors Program of Engineering (Top 5%)

Minor in Finance in Antai College of Economics

## PROFESSIONAL EXPERIENCE

### **Tsinghua University**

Beijing, China

Supervised by *Huanchen Zhang*, in Institute for Interdisciplinary Information Sciences

Sep 2022 – Present

- Ph.D. student

- Focus on the design and optimization of database system and ML system

Teaching Assistant of Introduction to Programming (C/C++) (2022, 2023, 2024)

### **Shanghai Qi Zhi Institute**

Shanghai, China

Research intern in Intelligent Database System Group

Oct 2021 – Present

### **Shanghai Jiaotong University**

Shanghai, China

Supervised by *Quan Chen*, in Emerging Parallel Computing Center

Mar 2021 – Jun 2022

- Research intern

- Focus on the optimization of cloud resource and AI system

Supervised by *Linghe Kong*, in Advanced Network Lab

Sep 2019 – Mar 2021

- Research intern

- Focus on the optimization of network communication and the algorithm of deep learning

### **Tencent**

Shenzhen, China

Department of Cloud Architecture Platform

July 2021 – Sep 2021

- Engineer intern

- Focus on computer infrastructure

## Publications

- [1] **Yulong Hui**, Yao Lu, Huanchen Zhang. “UDA: A Benchmark Suite for Retrieval Augmented Generation in Real-world Document Analysis”. *Conference on Neural Information Processing Systems (NIPS’24)*
- [2] Xinyu Zeng, **Yulong Hui**, Jiahong Shen, Andrew Pavlo, Wes McKinney, Huanchen Zhang. “An Empirical Evaluation of Columnar Storage Formats”. *International Conference on Very Large Data Bases (VLDB’23)*
- [3] Yao Lu, Song Bian, Lequn Chen, Yongjun He, **Yulong Hui**, Matthew Lentz, Beibin Li, Fei Liu, Jialin Li, Qi Liu, Rui Liu, Xiaoxuan Liu, Lin Ma, Kexin Rong, Jianguo Wang, Yingjun Wu, Yongji Wu, Huanchen Zhang, Minjia Zhang, Qizhen Zhang, Tianyi Zhou, Danyang Zhuo. “Computing in the Era of Large Generative Models: From Cloud-Native to AI-Native”. *Preprint*

## AWARDS

- Shanghai Outstanding Graduate Award (1%) 2022
- Fan Hsu-chi Principal Scholarship (1%) 2019, 2020, 2021
- Zhiyuan Honors Scholarship (5%) 2019, 2020, 2021
- Excellent Undergraduate Scholarship (15%) 2019, 2020, 2021

## SKILLS

**English:** CET4: 604, CET6: 561 (Passing Score: 425)

**Competent:** C and C++, Python, Java, Html & CSS

**Experiences:** Golang, Verilog, JavaScript, Matlab

**EXTRACURRICULAR ACTIVITIES**

President of Fan-scholar student union

Member of the school soccer team

Academic counselor of the school

Music producer in NetEase Cloud Music