

WENQI JIANG

PhD Student

Department of Computer Science, ETH Zurich

Last Update: April 2024

STF G222
Stampfenbachstrasse 114
8092 Zurich, Switzerland

+41 076 585 8978
wenqi.jiang@inf.ethz.ch
<https://wenqijiang.github.io/>

EDUCATION

ETH Zurich, Switzerland

2021~2025 (*Expected*)

PhD in Computer Science

Affiliated with the Systems Group

Concentration in Data Processing on Heterogeneous Hardware

Advisors: Prof. Gustavo Alonso and Prof. Torsten Hoefler

Columbia University, USA

2018~2020

Master in Electrical Engineering

Concentration in Data-Driven Analysis and Computation

Advisor: Prof. Luca Carloni

Overall GPA: 4.0/4.0 (top 5%)

Huazhong University of Science and Technology, China

2014~2018

Bachelor in Automation

Concentration in Pattern Recognition

Overall GPA: 3.7/4.0

PROFESSIONAL APPOINTMENTS

Amazon Web Services

Oct. 2023 ~ Jan. 2024

Applied Scientist Intern

Santa Clara, USA

Alibaba Cloud

Sep. 2019 ~ Dec. 2019

Database Development Intern

Shenzhen, China

AWARDS AND HONORS

The Master's Award of Excellence (top 5%), Columbia University	2021
Outstanding Graduate, HUST	2018
Scholarship for Excellent Academic Performance, HUST	2015

CONFERENCE PAPERS

- [1] Qi Chen, Xiubo Geng, Corby Rosset, Carolyn Buractaon, Jingwen Lu, Tao Shen, Kun Zhou, Chenyan Xiong, Yeyun Gong, Paul Bennett, Nick Craswell, Xing Xie, Fan Yang, Bryan Tower, Nikhil Rao, Anlei Dong, **Wenqi Jiang**, Zheng Liu, Mingqin Li, Chuanjie Liu, Zengzhong Li, Rangan Majumder, Jennifer Neville, Andy Oakley, Knut Magne Risvik, Harsha Vardhan Simhadri, Manik Varma, Yujing Wang, Linjun Yang, Mao Yang, Ce Zhang, "MS MARCO Web Search: A Large-scale Information-rich Web Dataset with Millions of Real Click Labels." *International World Wide Web Conference*
- [2] Shuai Zhang, **Wenqi Jiang**, "Data-Informed Geometric Space Selection." *Thirty-seventh Conference on Neural Information Processing Systems*
- [3] **Wenqi Jiang**, Shigang Li, Yu Zhu, Johannes de Fine Licht, Zhenhao He, Runbin Shi, Cedric Renggli, Shuai Zhang, Theodoros Rekatsinas, Torsten Hoefer, and Gustavo Alonso, "Co-design Hardware and Algorithm for Vector Search." *The International Conference for High Performance Computing, Networking, Storage and Analysis*
- [4] **Wenqi Jiang***, Zhenhao He*, Shuai Zhang, Kai Zeng, Liang Feng, Jiansong Zhang, Tongxuan Liu, Yong Li, Jingren Zhou, Ce Zhang, and Gustavo Alonso, "FleetRec: Large-Scale Recommendation Inference on Hybrid GPU-FPGA Clusters." *Proceedings of the 27th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*
- [5] Yu Zhu, Zhenhao He, **Wenqi Jiang**, Kai Zeng, Jingren Zhou, and Gustavo Alonso, "Distributed Recommendation Inference on FPGA Clusters." *31th International Conference on Field-Programmable Logic and Applications*
- [6] **Wenqi Jiang**, Zhenhao He, Shuai Zhang, Thomas B. Preußer, Kai Zeng, Liang Feng, Jiansong Zhang, Tongxuan Liu, Yong Li, Jingren Zhou, Ce Zhang, and Gustavo Alonso, "MicroRec: Efficient Recommendation Inference by Hardware and Data Structure Solutions." *4th Conference on Machine Learning and Systems*

TUTORIALS

- [1] **Wenqi Jiang**, Dario Korolija, and Gustavo Alonso, "Data Processing with FPGAs on Modern Architectures." *International Conference on Management of Data (SIGMOD'23)*

TEACHING

Teaching Assistant:

Data Modelling and Databases	Spring 2024
Big Data	Fall 2023

Big Data for Engineers
Systems Programming and Computer Architecture

Spring 2022, Spring 2023
Fall 2021, Fall 2022

PROFESSIONAL SERVICE

Reviewer

IEEE Micro 2021

LANGUAGES

English: fluent

Mandarin (Chinese): native

SKILLS

Programming Languages: C/C++, Python, OCaml, System Verilog

Platforms & Frameworks: Vivado HLS, CUDA, OpenCL, OpenCV, TensorFlow, PyTorch, Keras, Spark Streaming, Apache Beam, MySQL, PostgreSQL

REFERENCES

Available upon request