

GAO Weihe

Postgraduate student in Computer Science
Tsinghua University (Beijing, China)

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I study Computer Science as a postgraduate student at Tsinghua University until the summer of 2024. My research interests focus on Distributed Systems (cluster-scale HPC), Secure (TEE) Storage Systems and Blockchains. I am currently open to Ph.D. programs regarding Computer Science starting from 2024 fall.

Education

- **Tsinghua University** Beijing, China
MSc in Computer Science (in progress) 2021 – expected 2024
- **Lancaster University** United Kingdom
BSc in Computer Science 2017 – 2021
- **Beijing Jiaotong University** Beijing, China
BEng in Computer Science and Technology 2017 – 2021

Ongoing Research

- **TomChain: Federated Blockchain with Centralized Acceleration**
trust-minimized computing delegation; consensus
- **Reversible Smart Contract Relay**
atomicity in smart contract transaction relay
- **TEE Concurrency Control Performance**
exploring concurrency control schemes for the performance of SGX

Publications

- 1) Hu, Bingyi, **Weihe Gao**, Cuiping Yan, Yongjun Ni, and Chenqian Li. "Image-based Deflection Measurement and Error Analysis." In Journal of Physics: Conference Series, vol. 1626, no. 1, p. 012024. IOP Publishing, 2020.
- 2) Hu, Bingyi, Ke Xing, **Weihe Gao**, Hainan Liu, and Hengyong Li. "Modelling and Implementation of Distributed Rain Water Storage and Utilization." In Journal of Physics: Conference Series, vol. 1624, no. 2, p. 022004. IOP Publishing, 2020.

Miscellaneous

- **Internship:** C++ Developer at Beijing Yeez Technology Co., Ltd. (TEE and smart contracts)
- **Skills:** C/C++, Rust, SGX development, smart contracts
- **IELTS:** 7.5 (Aug. 2023)