

Yifan Li

PhD student, Cornell University

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Currently, I'm in the second year of PhD studies. I'm interested in **Systems and Parallel Computing**.

Education

- 2025–now **PhD**, *Cornell University*, Ithaca, NY, USA
Major: Computer Science
- 2021–2025 **B.Eng.**, *Tsinghua University*, China
Major: Computer Science and Technology, *current GPA: 3.98/4.0, ranking: Top 3%*
- 2023 **Exchange Student**, *Cornell University*, Ithaca, NY, USA
Department of ECE, August 2023 to December 2023, *GPA: 4.2/4.3*

Publication

- [1] **Yifan Li** and G. Guidi, “Ocean: Fast estimation-based sparse general matrix-matrix multiplication on gpu,” in *Proceedings of the 40th ACM International Conference on Supercomputing*, ICS '26, p. 1089–1101, 2026.
- [2] **Yifan Li** and G. Guidi, “High-performance sorting-based k-mer counting in distributed memory with flexible hybrid parallelism,” in *Proceedings of the 53rd International Conference on Parallel Processing*, ICPP '24, pp. 919–928, 2024.

Awards and Honors

- 2026 **Best Poster Award**, *ACM International Conference on Supercomputing 2026*
Poster Title: Faster Biobank-Scale Genomics through Sparse Linear Algebra on Genotype Representation Graph
- 2025 **University Outstanding Graduate**, *Tsinghua University*
Awarded to 75 of ~3,000 graduates
- 2024 **Overall Winner, SC24 Student Cluster Competiton**, *ACM/IEEE CS*
Responsible for the Reproducibility Challenge
- 2022,2023,2024 **Award of Comprehensive Excellence**, *Tsinghua University*
Top 5% School-wide

Teaching, Mentorship, and Service

2023 **SAST Summer Tutorial**, Department of CST, Tsinghua University
Courses taught: Introduction to Python, Introduction to Web
Achieved more than 100 live audience and 10,000 online replays.

2023-2024 **Vice President of Students' Association of Science and Technology**
Participated in projects such as "SAST Skill Docs", which received more than 200 stars on github. Developed web services.

Programming Skills

Language C++, Python, Rust, SQL, Web
Model MPI, OpenMP, NCCL, CUDA