

Dayi Fan

PERSONAL INFO

Email : fan.1090@osu.edu
Homepage : <https://davis-fan.github.io/>
GitHub : <https://github.com/Davis-Fan>
Phone : +1 614-441-7476
Address: Columbus, Ohio, U.S.

EDUCATION

- 2022.01-CURRENT Ph.D. candidate in Computer Science and Engineering,
The Ohio State University, U.S.
Advised by **Prof. Xiaodong Zhang**
Topic: *Parallel Algorithm Design and its Hardware Acceleration
for Irregular Datacentric Applications*
- 2021.01-2021.05 Undergraduate Exchange in Computer Science,
National University of Singapore, Singapore
Advised by Prof. Trevor E. Carlson
Project: LSTM implementation with spiking neural networks
- 2017.09-2021.07 B.Eng. in Microelectronics Science and Engineering,
Southern University of Science and Technology, China
Advised by Prof. Quan Chen
Project: RRAM-based neural network optimization

CONFERENCE PAPER

- 2025 X-Blossom: Massive Parallelization of Graph Maximum Matching [[PDF](#)]
Dayi Fan, Rubao Lee, Xiaodong Zhang
The 51st International Conference on Very Large Databases (VLDB 2025),
London, U.K.

2024 X-TED: Massive Parallelization of Tree Edit Distance [\[PDF\]](#)
Dayi Fan, Rubao Lee, Xiaodong Zhang
The 50th International Conference on Very Large Databases (*VLDB 2024*),
Guangzhou, China

JOURNAL ARTICLE

2024 RR-Compound: RDMA-Fused gRPC for Low Latency, High Throughput, and Easy Interface [\[PDF\]](#)
Liang Geng, Hao Wang, Jingsong Meng, **Dayi Fan**, Sami Ben-Romdhane, Hari Kadayam Pichumani, Vinay Phegade, Xiaodong Zhang
IEEE Transactions on Parallel and Distributed Systems (*TPDS 2024*)

MANUSCRIPTS UNDER REVIEW

2026 X-Wim: Massive Parallelization of Weighted Matching in Bipartite Graphs
Dayi Fan, Simon Zhang, Rubao Lee, Hanqi Guo, Xiaodong Zhang
Submitted to *VLDB 2026*; revision submitted.

2026 Performance Insights and Implications of Traversal-based Graph Analytics on both Multi-core CPUs and GPUs
Jiaxin Liu, **Dayi Fan**, Rubao Lee, Cathy Xia, Xiaodong Zhang
Submitted to *SIGMETRICS 2026*; revision invited for *SIGMETRICS 2027*

TEACHING EXPERIENCE

2022.01-2024.05 Graduate Teaching Assistant
CSE 3421 Computer Architecture
The Ohio State University

ACADEMIC PERFORMANCE

Postgraduate GPA: 3.951/4.000
Undergraduate GPA: 3.90/4.00

2021.06 Excellent Graduate Award
Southern University of Science and Technology

2017-2020 First Class Student Scholarship (Top 5%, three consecutive years)
Southern University of Science and Technology

ADDITIONALS

Languages: English, Chinese, Cantonese

Music: Cello and Piano

Enthusiast: Photography