Haoran Dang (党浩然)

■ danghr@outlook.com / □ danghr.com

EDUCATION

• Institute of Computing Technology, Chinese Academy of Sciences

M.Eng. Student in Electronic Information Supervisor: Prof. Dongrui Fan GPA: 3.81/4

Also a student of University of Chinese Academy of Sciences, where the degree is to be conferred.

• ShanghaiTech University 2018-09 ~ 2022-06 B.Eng. in Computer Science and Technology GPA: 3.50/4 Rank in major: 55/194 (28.4%) Shanghai, China

RESEARCH & PROJECTS

-Publications

- H Dang, M Wu, M Yan, X Ye, and D Fan, "GDL-GNN: Applying GPU Dataloading of Large Datasets for Graph Neural Network Inference," accepted by Euro-Par 2024.
- H Dang, C Ye, Y Hu, and C Wang, "NobLSM: An LSM-tree with Non-blocking Writes for SSDs," DAC 2022.
- D Wang, M Yan, Y Teng, D Han, H Dang, X Ye, and D Fan, "A Transfer Learning Framework for High-accurate Cross-workload Design Space Exploration of CPU," ICCAD 2023.

-Research

• Lab of Graph Intelligent Machine (GIMLab) HTCRC, ICT, CAS

2021-12 ~ Present

Director: Assoc. Prof. Mingyu Yan

Beijing, China

- Conducted research to accelerate GNN inference on multi-GPU platforms, developed and implemented an optimized GPU dataloading method based on partition, achieving a 59.9% performance improvement over baseline. (cf. GDL-GNN)
- Developed an undergraduate FYP on optimizing GNN training, halving training times by implementing a multithreaded data loader across various GPUs. Awarded the SIST Outstanding Thesis.
- · Toast Lab SIST, ShanghaiTech

2021-07 ~ 2022-02

PI: Assist. Prof. Chundong Wang

Shanghai, China

- Designed and implemented NobLSM's database component, using a modified ext4 interface to delay file deletions and minimize costly syncs. Demonstrated enhanced performance via benchmarking against SOTA LSM-trees. (cf. NobLSM)
- Attitude Research Lab (ARLab) SEM, ShanghaiTech

2020-09 ~ 2021-09

PI: Assoc. Prof. Lifeng Yang

Shanghai, China

Participated in preparation of the book Ethics and Morality in Information Science and Technology. Provided suggestions
on selecting publishing houses and participated in writing example chapters.

-TEACHING

· Operating System I (TA)

ShanghaiTech Fall, AY 2021 ~ 2022

SKILLS

• Programming Languages: C/C++, Python, Shell, Verilog

• Tools & Frameworks: PyTorch, LATEX, Jekyll

· Languages: Mandarin Chinese (native), English (fluent)

TOEFL iBT Score: 107 (Reading: 29, Listening: 27, Speaking: 23, Writing: 28)
GRE General Test Score: 328 (Verbal: 158, Quantitative: 170, Analytical Writing: 4)
College English Test Band 6 Score: 572 (Listening: 198, Reading: 211, Writing: 163)
2021-06

CERTIFICATES & AWARDS

 2022 SIST Outstanding Thesis (for final year project) 	ShanghaiTech	2022-06
Excellent Individual of Industrial Practice in Class of 2018	ShanghaiTech	2021-06
Excellent Individual of Social Practice in 2019	ShanghaiTech	2019-11

VOLUNTARY SERVICE

• 20th Public Science Day of ICT, CAS Remote camera operator.	ICT, CAS	2024-05
• "Sunflower Activity" - Haidian Hospital Volunteers Assistant in Service Center	ICT, CAS	2023-12
• 2020 Freshmen Enrollment Guidance in baggage claim of postgraduate students.	ShanghaiTech	2020-09
2020 Campus Opening Day Participated in device check and exam download.	ShanghaiTech	2020-07
• 2019 Admission Consultation Participated in admission consultation in Beijing.	ShanghaiTech	2019-06