Yangshen Deng

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🎓 Education

Southern University of Science and Technology (SUSTech), China   Sept. 2022 – Jun. 2025

Master student in Computer Science (CS), supervised by Professor Bo Tang in Database Group

Beijing University of Posts and Telecommunications (BUPT), China   Sept. 2018 – Jun. 2022

Bachelor of Engineering in Computer Science (CS)

✎ Publications

Accelerating Merkle Patricia Trie with GPU

Yangshen Deng, Muxi Yan and Bo Tang. *PVLDB 2024*

[paper] [code] [slides]

How Does Software Prefetching Work on GPU Query Processing?

Yangshen Deng, Shiwen Chen, Zhaoyang Hong and Bo Tang. *DaMoN@SIGMOD 2024*

[paper] [code] [slides]

GHive: Accelerating Analytical Query Processing in Apache Hive via CPU-GPU Heterogeneous Computing

Haotian Liu, Bo Tang, Jiashu Zhang, Yangshen Deng, et al. *SoCC 2022*

[paper] [code]

GHive: A Demonstration of GPU-Accelerated Query Processing in Apache Hive

Haotian Liu, Bo Tang, Jiashu Zhang, Yangshen Deng, et al. *SIGMOD 2022* demo track

[paper]

👥 Industry Experiences

Huawei: Gauss Database Group, 2012 Lab   Feb. 2022 – Jun. 2022

Database Develop Intern

Alibaba: Alipay, Ant Group   Jul. 2021 – Sept. 2021

Software Develop Intern

💬 Community Contributions

Reviewer of *SIGMOD 2023* Availability and Reproducibility [paper]   2023

VLDB 2024 Student Volunteer Program   2024

Contributor of vLLM and transformers

♡ Awards

Outstanding Graduate Student of Southern University of Science and Technology   2024

Winning Prize of Oceanbase Developer Competition. (Rank 9th out of 1180 teams)   2023

Outstanding Student Award of VLDB Summer School   2022

Outstanding Graduate of Beijing University of Posts and Telecommunications   2022

Scholarship of Beijing University of Post and Telecommunications   2019 – 2021