

YANGSHEN DENG

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🎓 EDUCATION

Southern University of Science and Technology (SUSTech), China Sept. 2022 – Jun. 2025
M.S in Computer Science (CS), GPA 3.76/4.0, Rank 4 | Advised by [Prof. Bo Tang](#) in [Database Group](#)

Beijing University of Posts and Telecommunications (BUPT), China Sept. 2018 – Jun. 2022
B.E in Computer Science (CS), GPA 89.21/100

✍ PUBLICATIONS

AlayaDB: The Data Foundation for Efficient and Effective Long-context LLM Inference
Yangshen Deng, Zhengxin You, Long Xiang, Qilong Li, Peiqi Yuan, et al. *SIGMOD* 2025

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
[\[paper\]](#)

⚙ INTERNSHIPS

TU Darmstadt: Systems Group Jan. 2025 – March. 2025
Research Intern | Working with [Prof. Carsten Binnig](#)

EPFL: Robust Scalable Systems Software Lab Jun. 2024 – Dec. 2024
Research Intern | Working with [Prof. Sanidhya Kashyap](#)

Alibaba: Alipay, Ant Group Jul. 2021 – Sept. 2021
Software Develop Intern

👥 COMMUNITY CONTRIBUTIONS

Contributor of [vLLM](#) and [transformers](#) 2024
VLDB 2024 Student Volunteer Program 2024
Reviewer of SIGMOD Availability and Reproducibility [\[report\]](#) 2023 – 2024

♡ AWARDS

China National Scholarship 2024
BYD Scholarship 2024
Academic Star of Southern University of Science and Technology 2024
Outstanding Graduate Student of Southern University of Science and Technology 2023 – 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