

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

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](#)

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* Availability and Reproducibility [\[report\]](#)

2023 – 2024

VLDB 2024 Student Volunteer Program

2024

Contributor of [vLLM](#) and [transformers](#)

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