YANGSHEN DENG

■ dengys2022@mail.sustech.edu.cn · % dengyangshen.netlify.app · • tkoniy

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, <u>Yangshen Deng</u>, et al. *SoCC* 2022 [paper] [code]

Scholarship of Beijing University of Post and Telecommunications

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

Haotian Liu, Bo Tang, Jiashu Zhang, <u>Yangshen Deng</u>, et al. *SIGMOD 2022* demo track [paper]

M. INTERNSHIPS

## INTERNATION	
TU Darmstadt: Systems Group Research Intern Working with Prof. Carsten Binnig	Jan. 2025 – March. 2025
EPFL: Robust Scalable Systems Software Lab Research Intern Working with Prof. Sanidhya Kashyap	Jun. 2024 – Dec. 2024
Huawei: Gauss Database Group, 2012 Lab Database Develop Intern	Feb. 2022 – Jun. 2022
Alibaba: Alipay, Ant Group Software Develop Intern	Jul. 2021 – Sept. 2021
Community Contributions	
Reviewer of SIGMOD Availability and Reproducibility [report]	2023 - 2024
VLDB 2024 Student Volunteer Program	2024
Contributor of vLLM and transformers	2024
National Scholarship	2024
Academic Star of Southern University of Science and Technology	2024
Outstanding Graduate Student of Southern University of Science and Technology	
Winning Prize of Oceanbase Developer Competition. (Rank 9th out of 1180 teams)	
Outstanding Student Award of VLDB Summer School	
Outstanding Graduate of Beijing University of Posts and Telecommunications	

2019 - 2021