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

S INTERNSHIPS		
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		
VLDB 2026 Shadow PC		2025
Contributor of vLLM and transformers		2024
VLDB 2024 Student Volunteer Program		2024
Reviewer of SIGMOD Availability and Reproducibility [report]		2023 - 2024
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 T	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 Telecommuni	cations	2022
Scholarship of Beijing University of Post and Telecommunications		2019 – 2021