

YANGSHEN DENG

✉ dengys2022@mail.sustech.edu.cn · 🌐 dengyangshen.netlify.app · 📱 tkoni

🎓 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* [[CODE](#)]

How Does Software Prefetching Work on GPU Query Processing?

Yangshen Deng, Shiwen Chen, Zhaoyang Hong and Bo Tang. *DaMoN@SIGMOD 2024* [[CODE](#)]

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* [[PDF](#)] [[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* [[PDF](#)]

👥 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

💬 ACADEMIA EXPERIENCES

Reviewer of *SIGMOD 2023* Availability and Reproducibility

2023

📖 TEACHING EXPERIENCES

Teaching assistant of *Data Structures and Algorithms* at SUSTech

2023 Fall

Teaching assistant of *Operating System* at SUSTech

2022 Spring

💖 AWARDS

Outstanding Graduate Student of Southern University of Science and Technology

2024

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

Mar. 2023

Outstanding Student Award of VLDB Summer School

2022

Scholarship of Beijing University of Post and Telecommunications

2019 – 2021

⚙ SKILLS

Programming Languages: C/C++, CUDA, Golang, Python, SQL, Matlab, JavaScript, Scala

Profiling Tools: VTune, Perf, Nsight Compute, Nsight System, Compute Sanitizer