

# YANGSHEN DENG

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## 🎓 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* [[PDF](#)][[CODE](#)]

### How Does Software Prefetching Work on GPU Query Processing?

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

2023

VLDB 2024 Student Volunteer Program

2024

## 📖 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)

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