



Wentao Huang

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📍 COM1-01-08 Database Research Lab 1,
13 Computing Drive, Singapore, 117417.

Education

Aug 2020 – Present

National University of Singapore

- Ph.D. in Computer Science
- Supervisor: Kian-Lee Tan
- GPA: 4.70/5.00

Sep 2017 – Jun 2020

Renmin University of China

- M.Sc in Computer Science
- Supervisor: Ju Fan
- GPA: 3.74/4.00

Sep 2013 – Jun 2017

Shandong University

- B.Eng in Electronic Engineering, SITP (CAS) Elite Class
- GPA: 90.22/100.00
- Rank: 3/39

Internship

Jul 2018 – Feb 2019

Advanced Digital Sciences Center, Singapore

- Research Engineer
- Mentor: Yuchen Li

Publications

ADMS 2024

Bandwidth Expansion via CXL: A Pathway to Accelerating In-Memory Analytical Processing.

- **Wentao Huang**, Mo Sha, Mian Lu, Yuqiang Chen, Bingsheng He, Kian-Lee Tan.
- 15th International Workshop on Accelerating Analytics and Data Management Systems Using Modern Processor and Storage.

FCS 2024

HeterMM: applying in-DRAM index to heterogeneous memory-based key-value stores.

- Yunhong Ji, **Wentao Huang**, Xuan Zhou.
- Frontiers of Computer Science.

EDBT 2024

TaC: An Anti-Caching Key-Value Store on Heterogeneous Memory Architectures.

- Yunhong Ji, **Wentao Huang**, Xuan Zhou, Bingsheng He, Kian-Lee Tan.
- 27th International Conference on Extending Database Technology.

VLDB 2023

A Design Space Exploration and Evaluation for Main-Memory Hash Joins in Storage Class Memory.

- **Wentao Huang**, Yunhong Ji, Xuan Zhou, Bingsheng He, Kian-Lee Tan.
- 49th International Conference on Very Large Data Bases.

SIGIR 2020

BiANE: Bipartite Attributed Network Embedding.

- **Wentao Huang**, Yuchen Li, Yuan Fang, Ju Fan, Hongxia Yang.
- 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval.

Projects

Jul 2018 – Aug 2018

Apache SINGA

- Source code: <https://github.com/apache/singa>

Services

2026

Shadow Program Committee Member

- VLDB'26.

2025

Program Committee Member

- ADMS'25.

Student Area Search Committee

- NUS SoC, year 2025.

2024

Research Session Deputy Chair

- EDBT'24.

Invited Reviewer

- ISCAS'24.

2023

Artifact Evaluation Committee

- SOSP'23, OSDI'23, USENIX ATC'23, EuroSys'23.

Teaching

Jan 2021 - May 2022

CS3223: Database Systems Implementation

- Teaching Assistant
- National University of Singapore

Feb 2019 - Jun 2019

Linear Algebra

- Teaching Assistant
- Renmin University of China

Feb 2018 - Jun 2018

Introduction to Computer Science

- Teaching Assistant
- Renmin University of China

Awards & Prizes

Aug 2023 – Jul 2024

Research Achievement Award

- National University of Singapore

Aug 2020 – Jul 2024

The NUS Research Scholarship

- National University of Singapore

Sep 2017 – Jun 2020

The Postgraduate Scholarship

- Renmin University of China

Sep 2013 – Jun 2017

The Undergraduate Scholarship

- Shandong University

May 2016

The Challenge Cup

- Gold Award
- Shandong University

Oct 2015

Innovation and Entrepreneurship Competition

- First Prize
- Shandong Province

Mar 2015 **The Chinese Mathematics Competition**

- Third Prize
- China

Sep 2014 **National Undergraduate Electronic Design Contest**

- Second Prize
- Shandong Province

Apr 2014 **University Football Cup**

- Champion
- Shandong University

Miscellaneous

Sep 2018 - Present **Open Water Diver**

- Scuba Schools International

Sep 2018 - Aug 2019 **Moderator of Technical Q&A**

- TensorFlow China Community

Aug 2014 - Jul 2015 **Minister of English Broadcasting Station**

- Shandong University