

# Zhaomin Wu

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## EXPERIENCE

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Research Fellow, National University of Singapore (NUS), Singapore 05/2024 – Present

## EDUCATION

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National University of Singapore (NUS), Singapore 07/2019 – 05/2024

Doctor of Philosophy – Computer Science Advisor: Prof. Bingsheng He

Huazhong University of Science and Technology (HUST), China 09/2015 - 06/2019

Bachelor of Engineering – ACM class, Computer Science and Technology GPA: 3.91/ 4.0 Rank: 10/281

## PUBLICATIONS

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**VertiBench: advancing feature distribution diversity in vertical federated learning benchmarks (ICLR 24)**

Zhaomin Wu, Junyi Hou, Bingsheng He

**DeltaBoost: gradient boosting decision trees with efficient machine unlearning (SIGMOD 23)**

Zhaomin Wu, Junhui Zhu, Qinbin Li, Bingsheng He (Honorable Mention for **Best Artifact**)

**A coupled design of exploiting record similarity for practical vertical federated learning (NeurIPS 22)**

Zhaomin Wu, Qinbin Li, Bingsheng He

**Practical vertical federated learning with unsupervised representation learning (IEEE Trans. Big Data 22)**

Zhaomin Wu, Qinbin Li, Bingsheng He

**FedTree: a federated learning system for trees (MLSys 23)**

Qinbin Li, Zhaomin Wu, Yanzheng Cai, Yuxuan Han, Ching Man Yung, Tianyuan Fu, Bingsheng He

**A survey on federated learning systems: vision, hype and reality for data privacy and protection (TKDE 22)**

Qinbin Li, Zeyi Wen, Zhaomin Wu, Sixu Hu, Naibo Wang, Yuan Li, Xu Liu, Bingsheng He

**The oraf benchmark suite: characterization and implications for federated learning systems (TIST 21)**

Sixu Hu, Yuan Li, Xu Liu, Qinbin Li, Zhaomin Wu, Bingsheng He

**Privacy-preserving gradient boosting decision trees (AAAI 20)**

Qinbin Li, Zhaomin Wu, Zeyi Wen, Bingsheng He

## HONORS AND AWARDS

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- Honorable Mention for Best Artifact Award, 2023 – Top 3 in SIGMOD 2023
- Honorable Mention for PhD Thesis Award, 2024 – Top 5 in School of Computing, NUS
- Dean's Graduate Research Excellence Award, 2023 – School of Computing, NUS
- Outstanding Students, 2016 – Top 1% in HUST
- National Scholarship, 2017 – Top 1% in HUST
- Merit Student, 2016 – Top 5% in HUST
- Outstanding Undergraduate Thesis, 2019 – Top 5% in HUST
- Meritorious Winner in Mathematical Contest in Modeling, 2018 – Top 10% worldwide
- Third Prize in National College Students Connected Smarter System Innovation Competition, 2016 - China

## TECHNICAL SKILLS

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**Familiar Programming Languages:** Python, C, C++, Java

**Utilized Programming Languages:** Verilog, MATLAB, x86 Assembly, Standard ML, SQL, JavaScript, CUDA

**Familiar Tools:** PyTorch, Linux Command Line, Latex, Word, Excel, PowerPoint

**Utilized Tools:** JavaFX, Win32 API, Qt, LightGBM, XGBoost, TensorFlow, Apache Cassandra, MongoDB

**Languages:** Chinese (native), English (capable of professional working)

## LEADERSHIP & SERVICE

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Journal Reviewer of TPAMI, TKDE, TNNLS, IJCV, TPDS, TIST, IoTJ, TCSVT 2021 – 2024

Conference Reviewer of NeurIPS, KDD, PAKDD 2021 – 2024

Tutorial Speaker of International Joint Conference on Artificial Intelligence (IJCAI) 2020

System administrator of GPU servers in NUS Xtra lab 2021 – 2024