

Zhaomin Wu

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EDUCATION

National University of Singapore (NUS), Singapore

07/2019 – Present

Ph.D. Candidate – Computer Science

Advisor: Prof. Bingsheng He

Huazhong University of Science and Technology (HUST), China

09/2015 - 06/2019

B.Eng. – ACM class, Computer Science and Technology

GPA: 3.91/ 4.0 Rank: 10/281

PUBLICATIONS

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

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 oarf 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

- 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

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

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