

# ZHAOMIN WU

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## EDUCATION

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<b>National University of Singapore (NUS), Singapore</b>	07/2019 - 06/2024
Doctor of Philosophy – Computer Science	Advisor: Prof. Bingsheng He
<b>Huazhong University of Science and Technology (HUST), China</b>	09/2015 - 06/2019
Bachelor of Engineering – ACM class, Computer Science and Technology	GPA: 3.91/4.0, Rank: 10/281

## EMPLOYMENT

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<b>National University of Singapore (NUS), Singapore</b>	05/2024 - Present
Research Fellow – Institute of Data Science	PI: Prof. Ng See Kiong

## SELECTED PUBLICATIONS

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\*Equal contribution, †Corresponding author

[AAAI 2020] **Privacy-Preserving Gradient Boosting Decision Trees**  
Qinbin Li, Zhaomin Wu, Zeyi Wen, Bingsheng He

[TIST 2021] **The Oarf Benchmark Suite: Characterization and Implications for Federated Learning Systems**  
Sixu Hu, Yuan Li, Xu Liu, Qinbin Li, Zhaomin Wu, Bingsheng He

[NeurIPS 2022] **A Coupled Design of Exploiting Record Similarity for Practical Vertical Federated Learning**  
Zhaomin Wu, Qinbin Li, Bingsheng He

[TBD 2022] **Practical Vertical Federated Learning with Unsupervised Representation Learning**  
Zhaomin Wu, Qinbin Li, Bingsheng He

[TKDE 2022] **A Survey on Federated Learning Systems: Vision, Hype and Reality for Data Privacy and Protection**  
Qinbin Li, Zeyi Wen, Zhaomin Wu, Sixu Hu, Naibo Wang, Yuan Li, Xu Liu, Bingsheng He

[SIGMOD 2023] **DeltaBoost: Gradient Boosting Decision Trees with Efficient Machine Unlearning**  
Zhaomin Wu, Junhui Zhu, Qinbin Li, Bingsheng He (Honorable Mention for Best Artifact)

[MLSys 2023] **FedTree: A Federated Learning System for Trees**  
Qinbin Li, Zhaomin Wu, Yanzheng Cai, Yuxuan Han, Ching Man Yung, Tianyuan Fu, Bingsheng He

[NeurIPS 2024] **Federated Transformer: Multi-Party Vertical Federated Learning on Practical Fuzzily Linked Data**  
Zhaomin Wu, Junyi Hou, Yiqun Diao, Bingsheng He

[ICLR 2024] **VertiBench: Advancing Feature Distribution Diversity in Vertical Federated Learning Benchmarks**  
Zhaomin Wu, Junyi Hou, Bingsheng He

[ACL 2025] **Federated Data-Efficient Instruction Tuning for Large Language Models**

## HONORS AND AWARDS

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<b>Best Research Staff Award</b> (2/~50 in NUS Institute of Data Science)	2025
<b>Honorable Mention for Best PhD Thesis Award</b> (5/~150 in NUS School of Computing)	2024
<b>SIGMOD Honorable Mention for Best Artifact</b> (3/4003 submissions)	2023
<b>Dean's Graduate Research Excellence Award</b> (10/~150 in NUS School of Computing)	2023
<b>Outstanding Undergraduate Thesis</b> (5% in HUST)	2019
<b>Meritorious Winner in Mathematical Contest in Modelling</b> (10% worldwide)	2018
<b>National Scholarship</b> (1% in HUST)	2017
<b>Outstanding Students</b> (1% in HUST)	2016
<b>Merit Student</b> (5% in HUST)	2016

## PROFESSIONAL SERVICES

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<b>Conference Reviewer:</b> ICML, NeurIPS	2025
<b>Conference Reviewer:</b> ICLR, NeurIPS, KDD, WWW, AISTATS	2024
<b>Conference Reviewer:</b> NeurIPS, SIGMOD (Artifact)	2023
<b>Conference Reviewer:</b> PAKDD	2022
<b>Conference Reviewer:</b> PAKDD	2021
<b>Journal Reviewer:</b> TDSC, TPDS	2025
<b>Journal Reviewer:</b> TKDD, JPDC, TNNLS	2024
<b>Journal Reviewer:</b> TPAMI, TKDE, TNNLS, IJCV, IoT-J	2023
<b>Journal Reviewer:</b> TPDS, TIST	2022
<b>Tutorial Speaker:</b> IJCAI	2020

## TEACHING & MENTORSHIP

### Teaching Assistant

• Introduction to Operating Systems (CS2106)	Fall 2022
• Software Testing (CS4218)	Spring 2022
• Neural Networks and Deep Learning (CS5242)	Fall 2021
• Programming Methodology (II) (CS2030)	Spring 2021
• Big Data Systems for Data Science (CS4225)	Fall 2020
• Data Structures and Algorithms (CS2040S)	Spring 2020
• Programming Methodology (CS1010E)	Fall 2019

### Mentored Students

• <b>Ziyang Wang</b> - Master student and research intern, NUS	2024 – 2025
• <b>Haodong Zhao</b> - Visiting Ph.D. Student, Shanghai Jiao Tong University	2024 – 2025
• <b>Zhen Qin</b> - Visiting Ph.D. Student, Zhejiang University	2024 – 2025
• <b>Jizhou Guo</b> - Undergraduate student and research intern, Shanghai Jiao Tong University	2024
• <b>Junyi Hou</b> - Master student and research intern, NUS	2023 – 2024
– Currently Ph.D. student in NUS	
• <b>Junhui Zhu</b> - Master student and research intern, NUS	2022