

CHENRUI WU

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EDUCATION

Simon Fraser University

Ph.D. in Computing Science

09/2023 - Present

School of Computing Science

Zhejiang University

Ph.D. in Artificial Intelligence

09/2023 - Present

College of Computer Science and Technology

The Chinese University of Hong Kong, Shenzhen

M.Phil. in Computer and Information Engineering

09/2021 - 06/2023

School of Science and Engineering

Harbin Institute of Technology

B.Eng. in Software Engineering

09/2017 - 06/2021

School of Computer Science and Technology

PUBLICATIONS

- **Chenrui Wu**, Haishuai Wang, Xiang Zhang, Chengqi Zhang, Jiajun Bu. *Efficient Personalized Adaptation for Physiological Signal Foundation Model*. ICML 2025.
- **Chenrui Wu**, Zexi Li, Fangxin Wang, Hongyang Chen, Jiajun Bu, Haishuai Wang. *Towards Universal Personalization in Federated Learning via Generative Collaborative Foundation Generative Models*. IEEE Transactions on Mobile Computing.
- **Chenrui Wu**, Haishuai Wang, Xiang Zhang, Zhen Fang, Jiajun Bu. *Spatio-temporal Heterogeneous Federated Learning for Time Series Classification with Multi-view Orthogonal Training*. ACM MM 2024.
- **Chenrui Wu**, Zexi Li, Fangxin Wang, Chao Wu. *Learning Cautiously in Federated Learning with Noisy and Heterogeneous Clients*. IEEE ICME 2023.
- **Chenrui Wu**, Yifei Zhu, Rongyu Zhang, Yun Chen, Fangxin Wang, Shuguang Cui. *FedAB: Truthful Federated Learning with Auction-based Combinatorial Multi-Armed Bandit*. IEEE Internet of Things Journal.
- **Chenrui Wu**, Yifei Zhu, Fangxin Wang. *DSFL: Decentralized Satellite Federated Learning for Energy-Aware LEO Constellation Computing*. IEEE Satellite 2022.
- Rongyu Zhang*, Yun Chen*, **Chenrui Wu***, Fangxin Wang, Bo Li. *Multi-level Personalized Federated Learning on Heterogeneous and Long-Tailed Data*. IEEE Transactions on Mobile Computing.
- Xianda Wang*, Yaqi Qiao*, Duo Wu*, **Chenrui Wu**, Fangxin Wang. *Cluster based Heterogeneous Federated Foundation Model Adaptation and Fine-Tuning*. AAAI 2025
- Boyu Fan, **Chenrui Wu**, Xiang Su, Pan Hui. *FedTSA: A Cluster-based Two-Stage Aggregation Method for Model-heterogeneous Federated Learning*. ECCV 2024.
- Rongyu Zhang, Yun Chen, **Chenrui Wu**, Fangxin Wang, Jiangchuan Liu. *Efficient Personalized Federated Learning for IoT Applications: Opportunities and Solutions*. IEEE Network.
- Rongyu Zhang, Yun Chen, **Chenrui Wu**, Fangxin Wang. *Cluster-driven Federated GNN-based Recommendation System with Biased Message Dropout*. IEEE ICME 2023.

HONORS & AWARDS

The First Young Elite Scientist Sponsorship Program (Ph.D. track), CAST

2025 - 2027

IEEE Satellite 2022 Best Student Paper Award

2022

SERVICES

Conference Reviewer: ICCV 2025, ICML 2025, WWW 2025, ICLR 2025, NeurIPS 2024, ACM MM 2024.

Journal Reviewer: IEEE TSC, TMC, TAI, TAES, TCCN, IoTJ, Network.

Teaching Assistant: CMPT-365 Summer 2025 SFU.