

# CHENRUI WU

Email: chenrui\_wu@sfu.ca ◇ Tel:(+1) 778-791-0966 ◇ Research Interests: Federated Learning | Deep Learning

## 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

Special Graduate Entrance Scholarship, SFU

2024

IEEE Satellite 2022 Best Student Paper Award

2022

## SERVICES

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

Journal Reviewer: IEEE TSC, TMC, TCOM, TAI, TAES, TCCN, IoT-J, Network; ACM HEALTH.

Teaching Assistant: CMPT-365 Summer 2025 SFU.