

# ZHIYUAN WU

## CONTACT

Email: [wu-zy25@tsinghua.org.cn](mailto:wu-zy25@tsinghua.org.cn)

## INFORMATION

Address: No. 30, Shuangqing Road, Haidian District, Beijing, China

Homepage: <https://wuzhiyuan2000.github.io/>

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## EDUCATION

2025.09-Present Ph.D in Department of Computer Science and Technology, Tsinghua University

2022.09-2025.07 MSc in Institute of Computing Technology, Chinese Academy of Sciences

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## RESEARCH INTERESTS

Intelligent Network, Distributed Systems, Edge-Cloud Collaboration

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## SELECTED PUBLICATIONS

**Zhiyuan Wu**, Sheng Sun, Yuwei Wang, Min Liu, Quyang Pan, Xuefeng Jiang, and Bo Gao. FedICT: Federated Multi-task Distillation for Multi-access Edge Computing. *IEEE Transactions on Parallel and Distributed Systems (TPDS)*. 2024 (**ESI Highly Cited Paper**)

**Zhiyuan Wu**, Sheng Sun, Yuwei Wang, Min Liu, Bo Gao, Quyang Pan, Tianliu He, Xuefeng Jiang. Agglomerative Federated Learning: Empowering Larger Model Training via End-Edge-Cloud Collaboration. *IEEE International Conference on Computer Communications (INFOCOM)*. 2024 (**IEEE Xplore Popular Article, Rank 1/256 in INFOCOM 2024, Rank 3/1000+ in INFOCOM Proceedings**)

**Zhiyuan Wu**, Sheng Sun, Yuwei Wang, Min Liu, Ke Xu, Wen Wang, Xuefeng Jiang, Bo Gao, and Jinda Lu. FedCache: A Knowledge Cache-driven Federated Learning Architecture for Personalized Edge Intelligence. *IEEE Transactions on Mobile Computing (TMC)*. 2024 (**IEEE Xplore Popular Article**)

**Zhiyuan Wu**, Sheng Sun, Yuwei Wang, Min Liu, Quyang Pan, Junbo Zhang, Zeju Li, and Qingxiang Liu. Exploring the Distributed Knowledge Congruence in Proxy-data-free

Federated Distillation. *ACM Transactions on Intelligent Systems and Technology (TIST)*. 2024

**Zhiyuan Wu**, Sheng Sun, Yuwei Wang\*, Min Liu, Ke Xu, Quyang Pan, Bo Gao, and Tian Wen. Beyond Model Scale Limits: End-Edge-Cloud Federated Learning with Self-Rectified Knowledge Agglomeration. Under Review in *IEEE/ACM Transactions on Networking (ToN)*. 2025

**Zhiyuan Wu**, Sheng Sun, Yuwei Wang\*, Bo Gao, Jinda Lu, Zheming Yang, Tian Wen. Under Review in *IEEE Transactions on Mobile Computing (TMC)*. 2025

Sheng Sun, Zengqi Zhang, Quyang Pan, Min Liu\*, Yuwei Wang, Tianliu He, Yali Chen, and **Zhiyuan Wu**. Staleness-Controlled Asynchronous Federated Learning: Accuracy and Efficiency Tradeoff. *IEEE Transactions on Mobile Computing (TMC)*, 2024

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**HONORS AND AWARDS**

- President Award**, Chinese Academy of Sciences, 2025
- President Special Prize**, Institute of Computing Technology, Chinese Academy of Sciences, 2024
- National Scholarship, 2024
- National Scholarship, 2023
- Pacemaker to Merit Students, 2024
- Outstanding Graduate of Beijing, 2025
- Efunda Fintech Freshman Scholarship, 2023

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**TECHNICAL REVIEWER**

- IEEE Transactions on Mobile Computing (TMC)
  - IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
  - International Conference on Machine Learning (ICML)
  - Advances in Neural Information Processing Systems (NeurIPS)
  - International Conference on Learning Representations (ICLR)
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