

Jingyu WANG [王敬宇]

10 Xitucheng Rd
Haidian District, Beijing, China

✉ wangjingyu@bupt.edu.cn
⌂ teacher.bupt.edu.cn/wangjingyu

ACADEMIC QUALIFICATIONS

Beijing University of Posts and Telecommunications, Beijing, China

M.S. & Ph.D., Computer Science, Advisor: Jianxin Liao

09/2003 - 06/2008

B.Eng., Computer Science

09/1997 - 06/2001

PRESENT ACADEMIC POSITION

Beijing University of Posts and Telecommunications, Beijing, China

07/2008 - *Present*

Tenured Professor, School of Computer Science & State Key Lab of Networking and Switching Technology

PREVIOUS POSITIONS HELD

China National Software & Service Co., Ltd., Beijing, China

07/2001 - 08/2003

System Architect, Network Division

SELECTED AWARDS

China Institute of Communications (CIC) Fellow, 2025

First Prize, Science and Technology Progress Award of the China Institute of Communications, 2025

ChangJiang (Yangtze River) Scholar, 2024

Second Prize, Beijing Science and Technology Progress Award, 2024

Second Prize, National Science and Technology Progress Award (2nd Contributor), 2023

Jiangsu Provincial High-Level Innovation and Entrepreneurship Talent Program Awardee, 2023

AAAI 2023 Distinguished Paper Award, 2023

First Prize, Science and Technology Progress Award of the China Institute of Communications, 2021

Nanjing “Purple Mountain Talents” Program Awardee, 2021

IEEE Systems Journal Best Paper Award, 2021

Second Prize, Science and Technology Progress Award of the China Institute of Communications, 2018

Second Prize, Ministry of Education Science and Technology Progress Award, 2016

First Prize, Science and Technology Progress Award of the China Institute of Communications, 2014

Second Prize, Ministry of Education Science and Technology Progress Award, 2013

Beijing Young Elite Talent Program Awardee, 2013

SELECTED PUBLICATIONS († Corresponding Author)

In Recent Five Years

1. **Jingyu Wang**, Chenyang Zhao, Zirui Zhuang, Qi Qi, Yuebin Guo, Haifeng Sun, Lingqi Guo, Jianxin Liao, “Fast and Scalable Data Plane Verification for Burst Updates with Edge-Predicate.” IEEE/ACM Transactions on Networking (ToN), 33, no.3, 1279-1294. 2025.

2. **Jingyu Wang**, Lingqi Guo, Jianyu Wu, Caijun Yan, Haifeng Sun, Lei Zhang, Zirui Zhuang, Qi Qi, Jianxin Liao, “Hierarchical Index Retrieval-Driven Wireless Network Intent Translation with LLM.” IEEE Transactions on Mobile Computing (TMC), 24, no.10, pp. 9837-9851. 2025.

2. **Jingyu Wang**, Rui long Ma, Xiang Yang, Qi Qi, Zirui Zhuang, Jing Wang, Jianxin Liao, and Song Guo, “DeepZoning: Re-accelerate CNN Inference with Zoning Graph for Heterogeneous Edge Cluster.” ACM Transactions on Architecture and Code Optimization (TACO), 22, no. 1, 1-10. 2025.

3. Chenyang Zhao, Yuebin Guo, **Jingyu Wang**†, Qi Qi, Zirui Zhuang, Haifeng Sun, Lingqi Guo, Yuming Xie, and Jianxin Liao. “EPVerifier: Accelerating Update Storms Verification with Edge-Predicate.” In USENIX Symposium on Networked Systems Design and Implementation (NSDI), pp. 979-992. 2024.

4. Rongxin Han, **Jingyu Wang**[†], Qi Qi, Haifeng Sun, Chaowei Xu, Zhaoyang Wan, Zirui Zhuang, Yichuan Yu, and Jianxin Liao. “NetRen: Service Migration-Driven Network Renascence with Synthesizing Updated Configuration.” In Proceedings of the 29th ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), Volume 3, pp. 708-721. 2024.

Beyond Recent Five Years

6. **Jingyu Wang**, Bo He, Jing Wang, Tonghong Li. “Intelligent VNFs Selection Based on Traffic Identification in Vehicular Cloud Networks.” IEEE Transactions on Vehicular Technology (Tvt), 68(5): 4140-4147, 2019.

7. **Jingyu Wang**, Qi Qi, Sude Qing, Jianxin Liao. “Elastic Vehicular Resource Providing Based on Service Function-Group Resource Mapping of Smart Identify Network.” IEEE Systems Journal (SJ), 12(2): 1897-1908 , 2018.

8. Xiaoyuan Fu, F. Richard Yu, **Jingyu Wang**[†], Qi Qi, Jianxin Liao. “Dynamic Service Function Chain Embedding for NFV-Enabled IoT: A Deep Reinforcement Learning Approach.” IEEE Transactions on Wireless Communications (TWC), 19(1): 507-519, 2020.

9. Chunning Du, Haifeng Sun, **Jingyu Wang**[†], Qi Qi, Jianxin Liao. “Adversarial and Domain-Aware BERT for Cross-Domain Sentiment Analysis.” Annual Meeting of the Association for Computational Linguistics (ACL), pp. 4019-4028, 2020.

10. Jiashi Li, Qi Qi, **Jingyu Wang**[†], Ce Ge, Yujian Li, Zhangzhang Yue, and Haifeng Sun. “OICSR: Out-in-channel sparsity regularization for compact deep neural networks.” In Proceedings of the IEEE/CVF conference on computer vision and pattern recognition (CVPR), pp. 7046-7055, 2019.

SELECTED GRANTS

1. PI, NSFC Key Project: “Theory and Validation of Dynamic Routing Methods based on Deep Reinforcement Learning,” 2.56M RMB, 2024–2027.

2. PI, National Key R&D Program (MOST): “6G Network Technologies Empowered by Communication Foundation Models,” 3M RMB, 2024–2027.

3. PI, National Key R&D Program (MOST): “Key Technologies and Validation of 6G Distributed Autonomous Networking,” 750K RMB, 2024–2027.

4. PI, Ministry of Industry and Information Technology (MIIT) High-Quality Reengineering Project: “Intelligent Functional System of 5G-Advanced Core Network,” 4.5M RMB, 2024–2026.

5. PI, NSFC General Program: “Incomplete Intent Interpretation and Policy Generation for Autonomous Cloud Networking,” 510K RMB, 2025–2028.

6. PI, NSFC General Program: “Transient Edge Resource Cooperation Mechanisms for Connected Autonomous Driving,” 740K RMB, 2021–2024.

6. PI, NSFC General Program: “Multipath Transport Mechanisms and Joint Optimization Theory for Software-Defined Data Centers,” 660K RMB, 2017–2020.

7. PI, National 973 Program (MOST): “Mechanisms and Theoretical Foundations of Intelligent Services,” 4.53M RMB, 2014–2017.

9. PI, NSFC General Program: “Theory of Multipath Transport and Friendliness in Multi-Homing and Overlay Coexistence Environments,” 800K RMB, 2013–2016.

10. PI, NSFC Young Scientists Fund: “Novel Multipath Transport Mechanisms Based on Multihoming Characteristics,” 220K RMB, 2010–2012.

11. Co-PI (Prototype System Lead), National Key R&D Program (MOST): “Key Technologies for Full-Scenario On-Demand Services in 6G,” 27.2M RMB, 2020–2023.