

# Wendi Feng

Associate Professor, Master Advisor

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## RESEARCH INTERESTS

Broadly computer networking, cloud/edge computing. Including various techniques to improve the performance of packet processing systems; security enhancement strategies for software-defined networks, and efficient network measurement algorithms and architectures.

## WORK EXPERIENCES

<b>Beijing Information Science and Technology University</b> Associate Professor, Master Advisor	Beijing, China 2023–Today
<b>Beijing Information Science and Technology University</b> Lecturer, Master Advisor	Beijing, China 2021–2022
<b>University of Minnesota – Twin Cities</b> Research Assistant	Minneapolis, USA 2018–2020

## EDUCATION

<b>Beijing University of Posts and Telecommunications</b> Ph.D. in Computer Science Advisor: Junliang Chen (CAS/CAE Member, 中国工程院与中国科学院两院院士)	Beijing, China 2016–2021
<b>University of Minnesota – Twin Cities</b> CSC-supported Co-advised Ph.D. Student in SDN/NFV, Advisor: Zhi-Li Zhang (IEEE Fellow)	Minneapolis, USA 2018–2020
<b>Halmstad University</b> Lecture in FAT File System, Instructor: Mattias Weckstén	Halmstad, Sweden 2014
<b>Beijing Information Science and Technology University</b> B.E. in Computer Science and Engineering, GPA:3.73/4.00 – Ranked as the first in the major, and graduated with the highest distinction.	Beijing, China 2012–2016

## FUNDINGS

<b>National Natural Science Foundation of China – Youth Program</b> PI <i>State Management Methods for High Throughput NFV Systems on a Single Server</i>	300,000 RMB 2025–2027
<b>R&amp;D Program of Beijing Municipal Education Commission</b> PI <i>SLO-Oriented High Performance Network Measurement Methods and Systems</i>	150,000 RMB 2023–2025
<b>Open Foundation of State key Laboratory of Networking and Switching Technology (Beijing University of Posts and Telecommunications)</b> PI <i>Key Enablers in Accelerating High Performance Network Function Service Systems</i>	30,000 RMB 2023–2025

**Grants from NDSEC**

390,000 RMB

PI

2022–2024

*High Performance Network Encryption Systems over Dataplane***National Key R&D Program of China**

4,000,000 RMB

Participation

2022–2025

*Theory and Methods for Detecting Illegal Crypto-currency Secret Mining on Backbone Networks***AWARDS**

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- YOUNG ELITE SCIENTIST SPONSORSHIP PROGRAM BY BAST 2024–2026
- YOUNG BACKBONE SUPPORTING PROGRAM BY BISTU 2024–2025
- DISTINGUISHED BACHELOR THESIS ADVISOR BY BISTU 2024–2025

**SELECTED PUBLICATIONS**

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- [1] X. Dou, W. Feng, and J. Liu, “GRAPE: gpu-accelerated zero-copy iot measurement data compression transmission”, in *Proceedings of the 8th Asia-Pacific Workshop on Networking, APNet*, 2024.
- [2] W. Feng, K. Liu, S. Sun, and et al., “Seraph: Towards secure and efficient multi-controller authentication with (t,n)-threshold signature in multi-domain SDWAN”, *J. Netw. Comput. Appl.*, 2024.
- [3] J. Liu, W. Feng, and X. Dou, “Sketchlet: Partitioning traffic for sketch with clustering on multi-core commodity servers”, in *Proceedings of the 8th Asia-Pacific Workshop on Networking, APNet*, 2024.
- [4] W. Feng, C. Liu, B. Cheng, and et al., “An end-host-importance-aware secure service-enabled hybrid SDN deployment”, *IEEE Trans. Netw. Serv. Manag.*, 2023.
- [5] W. Feng, C. Liu, and J. Chen, “Batchsketch: A ”network-server” aligned solution for efficient mobile edge network sketching”, in *ACM MobiCom ’22: The 28th Annual International Conference on Mobile Computing and Networking*, 2022.
- [6] Z. Guo, S. Dou, S. Liu, W. Feng, and et al., “Maintaining control resiliency and flow programmability in software-defined wans during controller failures”, *IEEE/ACM Trans. Netw.*, 2022.
- [7] Z. Wu, Y. Zhang, W. Feng, and Z. Zhang, “Nflow and MVT abstractions for NFV scaling”, in *IEEE INFOCOM 2022 - IEEE Conference on Computer Communications*, 2022.
- [8] W. Feng, C. Liu, B. Cheng, and J. Chen, “Secure and cost-effective controller deployment in multi-domain SDN with baguette”, *J. Netw. Comput. Appl.*, 2021.
- [9] W. Feng, Z. Guo, C. Liu, and et al., “BAGUETTE: towards a secure and cost-effective switch upgrade in hybrid software-defined networks”, in *IEEE International Conference on Communications, ICC*, 2020.
- [10] W. Feng, Z. Zhang, C. Liu, and J. Chen, “Clé: Enhancing security with programmable dataplane enabled hybrid SDN”, in *Proceedings of the 15th International Conference on emerging Networking EXperiments and Technologies, CoNEXT*, 2019.

**SERVICES**

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- Expert of Beijing Municipal Science & Technology Commission, Administrative Commission of Zhongguancun Science Park
- Expert of Professional Title Evaluation in Cyberspace Security
- Professional Member of ACM/IEEE/CCF
- Executive member of CCF Expert Committee on Service Computing/Network and Data Communications
- Reviewer of IEEE TNSM/Elsevier FGCS/JNCA