



# JUNXIAO WANG

## CONTACT

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## EXPERIENCE

HK Polytechnic University	2021–NOW	Postdoctoral Researcher Department of Computing (COMP) Project: Federated Learning over Mobile Edge Networks Supervisor: Prof. Song Guo, Associate Head of Department, IEEE Fellow
Queen Mary University, London	2018–2019	Visiting Researcher School of Electronic Engineering and Computer Science (EECS) Supervisor: Prof. Steve Uhlig, Head of School

## EDUCATION

Dalian University of Technology	2016–2020	PhD, Computer Technology Application College of Electronic Information and Electrical Engineering Thesis: Research on Techniques of Performance Guarantee for Software Defined Network Function Virtualization System Advisor: Prof. Keqiu Li, Head of College, Tianjin University
Dalian University of Technology	2014–2017	MEng, Computer Systems Organization College of Electronic Information and Electrical Engineering Thesis: Research on Request Dispatching for Multi-Controllers in Software-Defined Networking Advisor: Prof. Keqiu Li, Head of College, Tianjin University
Dalian Maritime University	2010–2014	BE, Software Engineering College of Information Science and Technology Recommended and Exam-exempted Postgraduate

## PROFESSIONAL ACTIVITIES

2020.10	PC Member for IEEE ICPADS Workshop on Network Computing and Data Management (NCDM).
2019.12	Session Chair for IEEE International Conference on Parallel and Distributed Systems (ICPADS).

## SELECTED PUBLICATIONS

[1] Junxiao Wang, Heng Qi, Keqiu Li, Xiaobo Zhou. "PRSFC-IoT: A Performance

and Resource Aware Orchestration System of Service Function Chaining for Internet of Things". IEEE Internet of Things Journal, 2018.

[Impact Factor: 9.936, Discipline: Computer Science-Computer Networks and Communications, Journal Ranking: JCR Q1, 11/307]

- [2] **Junxiao Wang**, Heng Qi, Yang He, Wenxin Li, Keqiu Li. "FlowTracer: An Effective Flow Trajectory Detection Solution Based on Probabilistic Packet Tagging in SDN-Enabled Networks". IEEE Transactions on Network and Service Management, 2019.  
[Impact Factor: 3.878, Discipline: Computer Science-Computer Networks and Communications, Journal Ranking: JCR Q1, 23/307]
- [3] **Junxiao Wang**, Heng Qi, Keqiu Li, Steve Uhlig. "Click-UP: Towards the Software Upgrade of Click based Modular Network Function". IEEE Systems Journal, 2020.  
[Impact Factor 3.987, Discipline: Engineering-Computer Networks and Communications, Journal Ranking: JCR Q1, 36/307]
- [4] Heng Qi, **Junxiao Wang**, Wenxin Li, Yuxin Wang, Tie Qiu. "A Blockchain-driven IIoT Traffic Classification Service for Edge Computing". IEEE Internet of Things Journal, 2020.  
[Impact Factor: 9.936, Discipline: Computer Science-Computer Networks and Communications, Journal Ranking: JCR Q1, 11/307]
- [5] **Junxiao Wang**, Heng Qi, Wenxin Li, Keqiu Li, Steve Uhlig, Yuxin Wang. "Dynamic SDN Control Plane Request Assignment in NFV Datacenters". IEEE Transactions on Network Science and Engineering, 2021.  
[Impact Factor: 5.213, Discipline: Engineering-Computer Networks and Communications, Journal Ranking: JCR Q1, 76/307]

#### FULL LIST OF PUBLICATIONS

- [Journal] **Junxiao Wang**, Heng Qi, Wenxin Li, Keqiu Li, Steve Uhlig, Yuxin Wang. "Dynamic SDN Control Plane Request Assignment in NFV Datacenters". IEEE Transactions on Network Science and Engineering, 2021.
- Heng Qi, **Junxiao Wang**, Wenxin Li, Yuxin Wang, Tie Qiu. "A Blockchain-driven IIoT Traffic Classification Service for Edge Computing". IEEE Internet of Things Journal, 2020.
- Junxiao Wang**, Heng Qi, Keqiu Li, Steve Uhlig. "Click-UP: Towards the Software Upgrade of Click based Modular Network Function". IEEE Systems Journal, 2020.
- Xinping Xu, Wenxin Li, Heng Qi, **Junxiao Wang**, Keqiu Li. "Latency-Constrained Cost-Minimized Request Allocation for Geo-distributed Cloud Services". IEEE Open Journal of the Communications Society, 2020.  
[Contributed to the process of building and polishing innovation points]
- Junxiao Wang**, Heng Qi, Yang He, Wenxin Li, Keqiu Li. "FlowTracer: An Effective Flow Trajectory Detection Solution Based on Probabilistic Packet Tagging in SDN-Enabled Networks". IEEE Transactions on Network and Service Management, 2019.
- Junxiao Wang**, Heng Qi, Keqiu Li, Xiaobo Zhou. "PRSFC-IoT: A Performance and Resource Aware Orchestration System of Service Function Chaining for Internet of Things". IEEE Internet of Things Journal, 2018.

[Conference]

Keyan Zhao, **Junxiao Wang**, Heng Qi, Xin Xie, Keqiu Li. "HBL-Sketch: A New Three-tier Sketch for Accurate Network Measurement". International Conference on Algorithms and Architectures for Parallel Processing, 2019.

Wanqian Zhang, **Junxiao Wang**, Sheng Chen, Heng Qi, Keqiu Li. "A Framework for Resource-aware Online Traffic Classification Using CNN". International Conference on Future Internet Technologies, 2019.

Wenrui Zhou, Yuan Cao, Heng Qi, **Junxiao Wang**. "An Effective Network Intrusion Detection Framework Based on Learning to Hash". IEEE International Conference on Smart Internet of Things, 2019.

[Contributed to the process of building and polishing innovation points]

**Junxiao Wang**, Yuchen Huang, Heng Qi, Keqiu Li, Steve Uhlig. "CLICK-UP: Towards Software Upgrades of Click-driven Stateful Network Element". ACM SIGCOMM Conference Demo, 2018.