



# JUNXIAO WANG

## CONTACT

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## EXPERIENCE

HK Polytechnic University	2021–now	Postdoctoral Fellow
	Department of Computing (COMP)	Project: Federated Learning over Mobile Edge Networks, aiming at machine learning governance and privacy-preserving deep learning frameworks. <b>PolyU Edge Intelligence Laboratory</b> directed by Prof. <b>Song Guo</b>
Queen Mary University, London	2018–2019	Visiting Researcher
	School of Electronic Engineering and Computer Science (EECS)	Project: Network Enhancement with Software Defined Networking and Network Function Virtualization, developing novel and efficient architectures, algorithms and systems to guarantee datacenter in-network's performance. <b>Networks Research Group</b> directed by Prof. <b>Steve Uhlig</b>

## EDUCATION

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

## PROFESSIONAL ACTIVITIES

2014.9–now	Reviewer for IEEE INFOCOM, IEEE TII, IEEE IoTJ, IEEE TNSM, etc.
2020.10	PC Member for IEEE ICPADS Workshop on NCDM.
2019.12	Session Chair for IEEE ICPADS.

## PUBLICATIONS

Preprint Papers	<b>Junxiao Wang</b> , Song Guo, Xin Xie, Heng Qi. "Federated Unlearning via Class-Discriminative Pruning". arXiv:2110.11794, 2021.
Conference Papers	<b>Junxiao Wang</b> , Song Guo, Xin Xie, Heng Qi. "Protect Privacy from Gradient Leakage Attack in Federated Learning". IEEE International Conference on Computer Communications (INFOCOM) 2022. Keyan Zhao, <b>Junxiao Wang</b> , 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.

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

## Journal Papers

**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.

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.

**Junxiao Wang**, Heng Qi, Keqiu Li, Steve Uhlig. "Click-UP: Towards the Software Upgrade of Click based Modular Network Function". IEEE Systems Journal.

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.

**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.

**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.