

Miao ZHANG

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EDUCATION

SEP 2018 - PRESENT	Ph.D. in pursuit, COMPUTING SCIENCE, Simon Fraser University (SFU) , BC, Canada SUPERVISOR: Prof. Jiangchuan Liu Research field: Cloud computing, multimedia system
SEP 2015 - JUL 2018	M.S., COMPUTER SCIENCE AND TECHNOLOGY, Tsinghua University (THU) , Beijing, China SUPERVISOR: Prof. Zhi Wang Research field: Data-driven strategies in multimedia network
SEP 2011 - JUL 2015	B.Eng., COMPUTER SCIENCE AND TECHNOLOGY, Sichuan University (SCU) , Chengdu, China

PUBLICATION

JUN 2022	CharmSeeker: Automated Pipeline Configuration for Serverless Video Processing <u>Miao Zhang</u> , Yifei Zhu, Jiangchuan Liu, Feng Wang, Fangxin Wang IEEE/ACM Transactions on Networking (ToN), 2022 (Early Access)
MAY 2022	CASVA: Configuration-Adaptive Streaming for Live Video Analytics <u>Miao Zhang</u> , Fangxin Wang, Jiangchuan Liu Proceedings of the 41th IEEE Conference on Computer Communications (INFOCOM) 2022
NOV 2021	Serverless Empowered Video Analytics for Ubiquitous Networked Cameras <u>Miao Zhang</u> , Fangxin Wang, Yifei Zhu, Jiangchuan Liu, Bo Li IEEE Network Magazine, Volume: 35, Issue: 6, November/December 2021
JUN 2021	Towards cloud-edge collaborative online video analytics with fine-grained serverless pipelines <u>Miao Zhang</u> , Fangxin Wang, Yifei Zhu, Jiangchuan Liu, Zhi Wang Proceedings of the 12th ACM Multimedia Systems Conference (MMSys) 2021
JUN 2019	Video Processing with Serverless Computing: A Measurement Study <u>Miao Zhang</u> , Yifei Zhu, Cong Zhang, Jiangchuan Liu Proceedings of the 29th ACM Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV) 2019
JUN 2019	Rendering multi-party mobile augmented reality from edge Lei Zhang, Andy Sun, Ryan Shea, Jiangchuan Liu, <u>Miao Zhang</u> Proceedings of the 29th ACM Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV) 2019
MAY 2018	Delay-Aware Upload Balancing Cross APs Based on User Relays <u>Miao Zhang</u> , Shan Huang, Zhi Wang, Yong Jiang IEEE International Conference on Communications (IEEE ICC) 2018
MAR 2017	Understanding performance of edge content caching for mobile video streaming Ge Ma, Zhi Wang, <u>Miao Zhang</u> , Jiahui Ye, Minghua Chen, Wenwu Zhu IEEE Journal on Selected Areas in Communications (IEEE JSAC) Volume: 35, Issue: 5, May 2017
JUN 2016	Propagation- and Mobility-Aware D2D Social Content Replication Zhi Wang, Lifeng Sun, <u>Miao Zhang</u> , Haitian Pang, Miao Tian, Wenwu Zhu IEEE Transactions on Mobile Computing (IEEE TMC) Volume: 16, Issue: 4, April 2017

SCHOLARSHIPS AND AWARDS

JUN 2015, SCU	Outstanding graduate
NOV 2014, SCU	National Scholarship
NOV 2014, SCU	Class I Scholarship for Excellent Students
APR 2014, MCM	Mathematical Contest in Modeling, Honorable Mention

WORK EXPERIENCE

JUL 2017 - SEP 2017	Research Internship, Sensetime (Beijing), China <ul style="list-style-type: none">• Designed a video recommendation system• Keywords: Multimedia system, Computer Vision
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SUMMARY OF SKILLS

Languages: C, C++, Java, Python, MATLAB
Platform: Linux, Windows, macOS
Theories: Computer Network, Cloud computing, Multimedia System

REFERENCES

[Dr. Jiangchuan Liu](#) **University Professor**, Simon Fraser University, jcliu@cs.sfu.ca
[Dr. Zhi Wang](#) **Associate Professor**, Tsinghua University, wangzhi@sz.tsinghua.edu.cn