

Zhaowei TAN

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Education

University of California, Los Angeles (UCLA)

Sep. 2016 - Present

Ph.D. student in Computer Science, Department of Computer Science

Advisor: Professor Songwu Lu

Shanghai Jiao Tong University (SJTU)

Sep. 2012 - Jun. 2016

B.S.E. in Computer Science, Department of Computer Science and Engineering

Student of IEEE Honor Class, 3.94/4.0 (2/78), Graduated with Honor

Experience

Microsoft Research Redmond

Research Intern

Jun. 2018 - Sep. 2018

- Advisor: Dr. Yongguang Zhang and Dr. Božidar Radunović
- Topic: Network Function Virtualization in public cloud; focused on cellular Core Network NFV reliability

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Research Intern

Jun. 2017 - Sep. 2017

- Advisor: Dr. Yongguang Zhang and Dr. Božidar Radunović
- Topic: Network Function Virtualization in public cloud; focused on improving socket reliability for cellular NFV

Publications

Conference Paper

- [1] [Zhaowei Tan](#), Jinghao Zhao, Yuanjie Li, Yifei Xu, Songwu Lu, “*Device-Based LTE Latency Reduction at the Application Layer*,” (To Appear) USENIX NSDI 2021.
- [2] Yuanji Li, Chunyi Peng, Zhehui Zhang, [Zhaowei Tan](#), Haotian Deng, Jinghao Zhao, Qianru Li, Yunqi Guo, Kai Liang, Boyan Ding, Hewu Li, Songwu Lu, “*Experience: A Five-Year Retrospective of MobileInsight*” (To Appear) ACM Mobicom 2021.
- [3] Yunqi Guo, [Zhaowei Tan](#), Songwu Lu, “*Towards Model-Centric Security for IoT Systems*,” IEEE ICCCN 2020 (*invited paper*).
- [4] [Zhaowei Tan](#), Yuanjie Li, Qianru Li, Zhehui Zhang, Zhehan Li, Songwu Lu, “*Enabling Mobile VR in LTE Networks: How Close Are We?*” ACM SIGMETRICS 2018.
- [5] Zengwen Yuan, Yuanjie Li, Chunyi Peng, Songwu Lu, Haotian Deng, [Zhaowei Tan](#), Taqi Raza “*A Machine Learning Based Approach to Mobile Network Analysis*” IEEE ICCCN 2018 (*invited paper*)
- [6] Xinjian Luo, Xiaofeng Gao, [Zhaowei Tan](#), Jiayi Liu, Xiaochun Yang, Guihai Chen “*D²Tree: A Distributed Double-Layer Namespace Tree Partition Scheme for Metadata Management in Large-Scale Storage Systems*,” IEEE ICDCS 2018.
- [7] Haoyang Wu, Tao Wang, Zengwen Yuan, Chunyi Peng, Zhiwei Li, [Zhaowei Tan](#), Boyan Ding, Xiaoguang Li, Yuanjie Li, Jun Liu, Songwu Lu, “*The Tick Programmable Low-Latency SDR System*,” ACM Mobicom 2017. **Best Community Paper Award**

- [8] Haotian Deng, Qianru Li, Yuanjie Li, Songwu Lu, Chunyi Peng, Taqi Raza, [Zhaowei Tan](#), Zengwen Yuan, Zhehui Zhang,
“Towards Automated Intelligence in 5G Systems,”
 IEEE ICCCN 2017 (*invited paper, authors in alphabetical order*).
- [9] Yan Yan, [Zhaowei Tan](#), Xiaofeng Gao, Shaojie Tang and Guihai Chen,
“STH-Bass: A Spatial-Temporal Heterogeneous Bass Model to Predict Single-Tweet Popularity,”
 DASFAA 2016.

Workshop

- [10] [Zhaowei Tan](#), Changfeng Liu, Yuning Mao, Jiaming Shen, Yunqi Guo, Xinbing Wang,
“AceMap: A Novel Approach towards Displaying Relationship among Academic Literatures,”
 WWW Workshop on Big Scholarly Data, 2016.
- [11] Jiaming Shen, Zhenyu Song, Shitao Li, [Zhaowei Tan](#), Yuning Mao, Luoyi Fu, Li Song, Xinbing Wang,
“Modeling Topic-level Academic Influence in Scientific Literatures,”
 AAAI Workshop on Scholarly Big Data, 2016.

Journal

- [12] Haoyang Wu, Tao Wang, Zengwen Yuan, Chunyi Peng, Zhiwei Li, [Zhaowei Tan](#), Boyan Ding, Xiaoguang Li, Yuanjie Li, Jun Liu, Songwu Lu *“The Tick Programmable Low-Latency SDR System,”*
 ACM GetMobile: Mobile Computing and Communications, Volume 22 Issue 1 (March 2018): 26–30.

Technical Report

- [13] [Zhaowei Tan](#), Yuanjie Li, Qianru Li, Zhehui Zhang, Zhehan Li, Songwu Lu,
“Supporting Mobile VR in LTE Networks: How Close Are We?”
 UCLA CS Technical Report.
- [14] Jiaming Shen, [Zhaowei Tan](#), Luoyi Fu, Xinbing Wang,
“The Analysis of Top-Notch Conferences in Networking Area,”
 Communications of the CCF 2016.

Talks

- [1] “Enabling Mobile VR in LTE Networks: How Close Are We?”
 ACM SIGMETRICS, 2018.
- [2] “AceMap: A Novel Approach towards Displaying Relationship among Academic Literatures,”
 WWW Workshop on Big Scholarly Data, 2016

Selected Honors & Awards

ACM MobiCom 17 Best Community Paper Award	2017
SIGMETRICS 18 Student Travel Grant	
Outstanding Graduates of SJTU	2016
National Scholarship, Ministry of Education of China	2013, 2014, 2015
Chun-Tsung Scholarship (Funded by Nobel Prize Laureate T. D. Lee)	2014
Scholarship of Academic Excellence of SJTU	2013, 2014, 2015

Open Source Projects

- **Main Contributor** for MobileInsight, Runtime, fine-grained cellular network analytics inside smartphone
- **Project leader** for Flora, Flexible software-defined 4G LTE/5G system without commodity hardware

Teaching and Mentoring

- **TA-Instructor** for
 - CS 35L: Software Construction Laboratory, UCLA, Fall 2017, Spring 2018, Fall 2018.
- **Teaching assistant** for

- CS 118: Computer Network Fundamentals, UCLA, Winter 2018.
- CS 33: Introduction to Computer Organization, UCLA, Fall 2018.