

QIANRU LI

396 ENG VI, UCLA \diamond qianruli@cs.ucla.edu

EDUCATION

Ph.D. Candidate, Computer Science, University of California Los Angeles , CA, USA	<i>Jun. 2022 (expected)</i>
B.S., Computer Science, Shanghai Jiao Tong University , Shanghai, China	<i>Jun. 2016</i>

SELECTED PUBLICATIONS

Qianru Li, Chunyi Peng “*Reconfiguring Cell Selection in 4G/5G Networks*”, **IEEE ICNP 2021**

Zhaowei Tan, Boyan Ding, Zhehui Zhang, **Qianru Li**, Yunqi Guo, Songwu Lu “*Device-Centric Detection and Mitigation of Diameter Signaling Attacks against Mobile Core*”, **IEEE CNS 2021**

Yuanjie Li, Hewu Li, Zhizheng Lv, Xingkun Yao, **Qianru Li**, Jianping Wu “*Deterrence of Intelligent DDoS via Multi-Hop Traffic Divergence*”, **ACM CCS 2021**

Yuanjie Li, Chunyi Peng, Zhehui Zhang, Zhaowei Tan, Haotian Deng, Jinghao Zhao, **Qianru Li**, Yunqi Guo, Kai Ling, Boyan Ding, Hewu Li, Songwu Lu “*Experience: A Five-Year Retrospective of MobileInsight*”, **ACM MobiCom 2021**

Haotian Deng, **Qianru Li**, Jingqi Huang, Chunyi Peng “*iCellSpeed: Increasing Cellular Data Speed with Device-Assisted Cell Selection.*”, **ACM MobiCom 2020**.

Yuanjie Li, **Qianru Li**, Zhehui Zhang, Ghufuran Baig, Lili Qiu, Songwu Lu “*Beyond 5G: Reliable Extreme Mobility Management.*”, **ACM SIGCOMM 2020**

Zengwen Yuan*, **Qianru Li***, Yuanjie Li, Songwu Lu, Chunyi Peng, George Varghese “*Resolving Policy Conflicts in Multi-Carrier Cellular Access.*”, **ACM MobiCom 2018** (*co-primary author)

Zhaowei Tan, Yuanjie Li, **Qianru Li**, Zhehui Zhang, Zhehan Li, Songwu Lu “*Supporting Mobile VR in LTE Networks: How Close Are We?*”, **SIGMETRICS 2018**

EXPERIENCE

HP Labs , San Jose, CA	<i>Jun. 2020 - Sep. 2020</i>
• Research Associate Intern in Networking, IoT and Mobility Lab	
Google , Seattle, WA	<i>Jun. 2019 - Sep. 2019</i>
• Software Engineer Intern on Google Stadia team.	
Uber , Palo Alto, CA	<i>Jun. 2018 - Sep. 2018</i>
• Software Engineer Intern on Mobile Network Infrastructure team	

SELECTED PROJECTS

Flora , Mobile Network Platform, UCLA	<i>Dec. 2020 - Present</i>
• Support 2-carrier aggregation for COTS UE with srsLTE.	
MobileInsight , Fine-grained Mobile Network Analytics, UCLA	<i>Sep. 2016 - Present</i>
• MobileInsight 5G; In-depth analysis of mobility and network performance (latency/retx etc.).	
RLC-layer Refactoring for 5G Proposal , UCLA	<i>Apr. 2017 - Dec. 2017</i>
• Uncovered latency-prone problems and attributed them to the existing of RLC layer.	
• Proposed to get rid of RLC and refactor layer 2 in 5G design, and provided emulation.	

TECHNICAL SKILLS

Programming Language	Python, C/C++, Shell Script, MySQL, MATLAB
Tools, Platforms	Android, numpy, pandas, srsLTE, tcpdump, GitHub, L ^A T _E X

HONORS AND SCHOLARSHIPS

UCLA Summer Mentored Research Fellowship	<i>2021</i>
UCLA Graduate Division Fellowship	<i>2021</i>
National Scholarship of China	<i>2013, 2014, 2015</i>