

JIASI CHEN

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Dept. of Computer Science and Eng.
University of California, Riverside
Riverside, CA 92521

RESEARCH INTERESTS

Computer networks, mobile systems, video streaming, wireless communications, virtual and augmented reality, network economics, optimization

EXPERIENCE

University of California, Riverside Riverside, CA
Assistant Professor, Dept. of Computer Science and Engineering July 2015 – present

AT&T Labs – Research Florham Park, NJ
Intern, Networking & Services Summer 2013
Mentors: Jeffrey Erman, Guangzhi Li, K.K. Ramakrishnan, Rakesh Sinha

NEC Labs America Princeton, NJ
Intern, Mobile Communications & Networking Summer 2012
Mentors: Rajesh Mahindra, M. Amir Khojastepour, Sampath Rangarajan

EDUCATION

Princeton University Princeton, NJ
Ph.D. in Electrical Engineering 2015
Thesis: Optimizing video delivery on mobile networks
Advisor: Mung Chiang
M.A. in Electrical Engineering 2012

Columbia University New York, NY
B.S. in Electrical Engineering, *magna cum laude* 2010

PUBLICATIONS

Shahryar Afzal, Jiasi Chen, K.K. Ramakrishnan, “Characterization of 360-degree video”, *under submission*.

Xukan Ran, Haoliang Chen, Zhenming Liu, Jiasi Chen, “Delivering deep learning to mobile devices via offloading”, *under submission*.

Suzan Bayhan, Liang Zheng, Jiasi Chen, Mario Di Francesco, Jussi Kangasharju, Mung Chiang, “Improving Cellular Capacity with White Space Offloading”, *Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)*, 2017.

Liang Zheng, Jiasi Chen, Carlee Joe-Wong, Chee Wei Tan, Mung Chiang, “An Economic Analysis of Wireless Network Infrastructure Sharing”, *Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)*, 2017.

Kittipat Apicharttrisor, Ahmed Osama Fathy Atya, Jiasi Chen, Karthikeyan Sundaresan, and Srikanth V. Krishnamurthy, “Enhancing WiFi Throughput With PLC Extenders: A Measurement Study”, *Passive and Active Measurement Conference*, 2017.

Liang Zheng, Carlee Joe-Wong, Jiasi Chen, Christopher G. Brinton, Chee Wei Tan, Mung Chiang, “Economic Viability of a Virtual ISP”, *IEEE INFOCOM*, 2017.

Michael Wang, Jiasi Chen, Ehsan Aryafar, and Mung Chiang, "A Survey of Client-Controlled HetNets for 5G" (invited), *IEEE Access*, 2016.

Tao Lin, Hongjia Li, Haiyong Xie, Jiasi Chen, Huajun Cui, Guoqiang Zhang, Wei An, Yang Li, "Performance and Implications of RAN Caching in LTE Mobile Networks: a Real Traffic Analysis", *IEEE SECON*, 2016.

Jiasi Chen, Mung Chiang, Jeffrey Erman, Guangzhi Li, K.K. Ramakrishnan, Rakesh Sinha, "Fair and Optimal Resource Allocation for LTE Multicast (eMBMS): Group Partitioning and Dynamics," *IEEE INFOCOM*, 2015. (authors are in alphabetical order except for the first author)

Xiaoli Wang, Jiasi Chen, Aveek Dutta, Mung Chiang, "Adaptive Video Streaming over Whitespace: SVC for 3-Tiered Spectrum Sharing," *IEEE INFOCOM*, 2015.

Jiasi Chen, Amitabh Ghosh, Mung Chiang, "Mechanisms for Quota-Aware Video Adaptation," book chapter: *Smart Data Pricing*, ed. S. Sen, C. Joe-Wong, S. Ha, M. Chiang, John Wiley, 2014.

Jiasi Chen, Rajesh Mahindra, M. Amir Khojastepour, Sampath Rangarajan, Mung Chiang, "Scheduling Framework for Adaptive Video Delivery over Cellular Networks," *ACM MobiCom*, 2013

Jiasi Chen, Soumya Sen, David Dorsey, Mung Chiang, "A Framework for Energy-efficient Adaptive Jamming of Adversarial Communications," *CISS*, 2013.

Jiasi Chen, Amitabh Ghosh, Josphat Magutt, Mung Chiang, "QAVA: Quota-Aware Video Adaptation," *ACM CoNEXT*, 2012.

PATENTS

Jiasi Chen, Amitabh Ghosh, Mung Chiang, "Quota-Aware Video Adaptation," US Patent #9,544,623, 2017.

Rajesh Mahindra, M. Amir Khojastepour, Sampath Rangarajan, Jiasi Chen, "Scheduling Framework for Adaptive Video Delivery over Cellular Networks," US Patent #9,338,693, 2016.

PROFESSIONAL ACTIVITIES

Professional activities:

IEEE INFOCOM (TPC member)	2018
IEEE ICNP (TPC member)	2016-17
ICCCN (TPC member)	2017
Fog World Congress (TPC member)	2017
ACM SIGCOMM (registration chair)	2017
ACM CoNEXT (local arrangements chair)	2016
S3 Workshop, co-located with ACM MobiCom (TPC member)	2014

Invited participant:

NSF NeTS Early Career Workshop	2015
Amazon Ph.D. Research Symposium	2013
MIT Rising Stars in EECS Career Workshop for Women	2013

Volunteer:

New York City Girls Computer Science and Engineering Conference	2012-14
Princeton University Graduate Engineering Council	2010-12

Reviewer: *IEEE Trans. Networking*, *IEEE Trans. Mobile Computing*, *IEEE Trans. Comm.*, *IEEE Trans. Parallel and Distributed Systems*, *IEEE Trans. Wireless Comm.*, *IEEE Comm. Mag.*, *IEEE J. Sel. Areas Comm.*, *ACM MobiCom*, *ACM CoNEXT*, *IEEE INFOCOM*, *IEEE ICNP*, *IEEE GLOBECOM*, *IEEE PIMRC*, *IEEE VTC*, *ICDCN*

TEACHING & ADVISING

PhD: Xukan Ran, Shahryar Afzal (with KK Ramakrishnan), Kittipat Apicharttrisorn (with Srikanth Krishnamurthy)

Master's: Hui Yang

Undergraduate: Daniel Handojo (honors thesis)

CS260: Seminar in Multimedia Networking

2017

CS204: Advanced computer networks

2016-17

CS179i: Project in computer networks

2016-17