

JIASI CHEN

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

Xukan Ran, Haoliang Chen, Xiaodan Zhu, Zhenming Liu, Jiasi Chen, “DeepDecision: A Mobile Deep Learning Framework”, *IEEE INFOCOM*, 2018.

Samet Oymak, Mehrdad Madavi, Jiasi Chen, "Learning Feature Nonlinearities with Non-Convex Regularized Binned Regression", *CoRR abs/1705.07256*, 2017.

Shahryar Afzal, Jiasi Chen, K.K. Ramakrishnan, “Characterization of 360-degree videos,” *SIGCOMM Workshop on Virtual Reality and Augmented Reality Network*, 2017.

Xukan Ran, Haoliang Chen, Zhenming Liu, Jiasi Chen, “Delivering deep learning to mobile devices via offloading,” *SIGCOMM Workshop on Virtual Reality and Augmented Reality Network*, 2017.

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 Apicharttrisorn, 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*, 2017.

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 Eрман, 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

Service:

IEEE INFOCOM (TPC)	2018-19
IEEE ICNP (TPC)	2016-18
ACM SIGCOMM Workshop on Virtual and Augmented Reality Network (TPC)	2017-18
ICCCN (TPC member)	2017
Fog World Congress (TPC)	2017
ACM SIGCOMM (registration chair)	2017
ACM/IEEE Symposium on Edge Computing (demo/poster chair)	2017
ACM CoNEXT (local arrangements chair)	2016
ACM MobiCom S3 Workshop (TPC)	2014

Awards:

UCR Hellman Fellowship (for promising Assistant Professors)	2017
UCR University Honors Faculty Mentor of the Year (for senior thesis advising)	2017

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 K.K. Ramakrishnan), Kittipat Apicharttrisorn (with Srikanth Krishnamurthy)

Master's: Hui Yang, Chang Yuan

Undergraduate: Daniel Handojo, Japneet Kaur, David Zhang, Emmilio Segovia

Courses

CS260: Seminar in multimedia networking	2017
CS204: Advanced computer networks	2016-17
CS179i: Project in computer networks	2016-18
CS135: Virtual reality	2018