

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, sensor networks, Internet of things, 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
Senior project: ultra-wideband radio for wireless sensor networks
Advisors: Peter Kinget, Gil Zussman

PUBLICATIONS

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**, Aweek 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.

Maria Gorlatova, Zainab Noorbhaiwala, Abraham Skolnik, John Sarik, Michael Zapas, Martin Szczodrak, **Jiasi Chen**, Luca Carloni, Peter Kinget, Ioannis Kymissis, Dan Rubenstein, Gil Zussman, "Prototyping Energy Harvesting Active Networked Tags: Phase II MICA Mote-based Devices (demo)," *ACM MobiCom*, 2010.

Maria Gorlatova, Tarun Sharma, Deep Shrestha, Enlin Xu, **Jiasi Chen**, Abraham Skolnik, Dongzhen Piao, Peter Kinget, Ioannis Kymissis, Dan Rubenstein, Gil Zussman, "Prototyping Energy Harvesting Active Networked Tags (EnHANTs) with MICA2 Motes (demo)," *IEEE SECON*, 2010.

PATENTS

Rakesh Sinha, Jeffrey Erman, Guangzhi Li, Jiasi Chen, Kadangode Ramakrishnan, "Broadcast Services Platform and Methods for Use Therewith," US Patent Application, 2015.

Jiasi Chen, Amitabh Ghosh, Mung Chiang, "Quota-Aware Video Adaptation," US Patent Application Serial No. 14/326218, 2014.

Rajesh Mahindra, M. Amir Khojastepour, Sampath Rangarajan, Jiasi Chen, "Scheduling Framework for Adaptive Video Delivery over Cellular Networks," US Patent Application Serial No. 14/210941, 2014.

INDUSTRIAL INTERACTIONS

Collaboration with Intel Labs	2014-2015
• Project: client-driven control of heterogeneous networks	
Collaboration with AT&T Labs Research	2013-2014
• Project: LTE multicast pricing and scheduling	
• 1 patent filed	
Collaboration with NEC Labs America	2012-2013
• Project: mobile adaptive video streaming	
• 1 patent filed	
Collaboration with Lockheed Martin	2012-2013
• Project: jamming adversarial wireless communications	

PROFESSIONAL ACTIVITIES

TPC:

ACM S3 Workshop (co-located with ACM MobiCom) 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, ACM MobiCom, ACM CoNEXT, IEEE INFOCOM, IEEE GLOBECOM, IEEE PIMRC, IEEE VTC, ICDCN

TEACHING

Supervised 2 Princeton University undergraduate senior theses	
• Rasmus Rothe on computational efficiency of knapsack problems (now at ETH Zurich)	2013
• Josphat Magutt on Android systems development (now at Al Jazeera Plus)	2012
Teaching assistant, ELE381: Friends, Money, and Bytes, Princeton University	2011
Lab assistant, ELEN E3084: Signals and Systems Lab, Columbia University	2010
Lab assistant, ELEN E3082: Digital Systems Lab, Columbia University	2009

AWARDS

Outstanding Teaching Assistant Award, Princeton University	2011
Graduate Fellowship, Princeton University	2010
Electrical Engineering Department Research Award, Columbia University	2010
NSERC Alexander Graham Bell Canada Graduate Scholarship (declined)	2010