

Qingqing Huang

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	@ qqh@mit.edu	Cambridge, MA 02139
<i>Education</i>	Massachusetts Institute of Technology	
	Doctorate (in Electrical Engineering and Computer Science):	Jun. 2013 – Aug. 2016
	<i>Research interests: statistical learning, machine learning algorithms, high dimensional statistics, optimization algorithms.</i>	
	Massachusetts Institute of Technology	
	Master (in Electrical Engineering and Computer Science)	Sep. 2011 – May. 2013
	<i>Research interests: smart grid technologies, electricity market.</i>	
	Hong Kong University of Science and Technology	
	Bachelor of Engineering (in Electrical Engineering)	Sep. 2006 – Jul. 2011
	Bachelor of Business Administration (in Economics)	Sep. 2006 – Jul. 2011
<i>Research Experience</i>	Graduate Student	Sep. 2011 – Present
	<i>Laboratory for Information and Decision Systems, MIT</i>	<i>Advisor: Munther Dahleh</i>
	Research Internship	May. 2014 – Aug. 2014
		May. 2015 – Aug. 2015
	<i>Machine Learning Group, Microsoft Research, New England</i>	<i>Advisor: Sham Kakade</i>
	Visiting Researcher	Dec. 2014
	<i>Big Data Lab, Baidu, Beijing</i>	<i>Advisor: Tong Zhang</i>
	Research Assistant	Jun. 2009 – Jan. 2011
<i>Extra Curricular Activities</i>	<i>Wireless Communication Group, ECE, HKUST</i>	<i>Advisor: Prof. Vincent K.N. Lau</i>
	Publication Chair of <i>Graduate Student Association, MIT</i>	Jan. 2013 – Dec. 2013
	In charge of website maintenance, poster design for publicizing events	
	Co-president of <i>Graduate Women in Course 6 (GW6), MIT</i>	Jan. 2012 – Dec. 2012
	Organized extra curricular activities for graduate women in EECS department of MIT	
	Software Engineer Intern at <i>Yunzhou-Tech Company, China</i>	Jun. 2011 – Aug. 2011
	Worked on navigation algorithm improvements for unmanned surface vehicles	
	IT Engineering at <i>Kwong Wah Hospital, Hong Kong</i>	Jan. 2011 – May. 2011
	Developed a web-based medical image archiving system Student Civic Fellow Program	
	Project Assistant at <i>Heep Hong Society, Hong Kong</i>	Jun. 2010 – Oct. 2010
<i>Awards</i>	Collaborated to develop a computer-based learning package for autistic children	
	Xerox-MIT Fellowship	2012
	Irwin Mark Jacobs and Joan Klein Jacobs Presidential Fellowship	2011
	Silver Medal in the National Physics Olympiad, China	2005

<p><i>Relevant Courses</i> (graduate level)</p>	<p>Applied math: probability theory, stochastic process, convex optimization; Machine learning: inference algorithms and graphical models, statistical learning, artificial intelligence; Signal processing: discrete-time signal processing, information theory, dynamic systems and control; Economics: game theory, micro/macro economics theory, bargaining and auctions.</p>
<p><i>Teaching Experience</i></p>	<p>Teaching assistant of “6.UAR Prep for Undergrad Research” Undergraduate level class at MIT Sep. 2015 – Dec. 2015 <i>Instructor: Prof. Anantha Chandrakasan</i></p> <p>Teaching assistant of “6.207 Networks” Undergraduate level class at MIT Jan. 2014 – May. 2014 <i>Instructor: Prof. Munther Dahleh and Prof. Asuman Ozdaglar</i></p> <p>Teaching assistant of “6.438 Algorithms for Inference” Graduate level class at MIT Sep. 2013 – Dec. 2013 <i>Instructor: Prof. Devavrat Shah</i></p>
<p><i>Academic Publications</i> (in reverse chronological order)</p>	<p>“Super-Resolution off the Grid” (co-authored with Sham Kakade, to appear in <i>Annual Conference on Neural Information Processing Systems (NIPS)</i>, 2015.)</p> <p>“A Greedy Algorithm for Nonnegative Matrix and Tensor Factorization” (co-authored with Tong Zhang, working paper.)</p> <p>“Dynamic Fault Diagnosis in Power Grids Using Hidden Markov Models” (co-authored with Na Li, to appear in <i>IEEE Transactions on Power System</i>, 2015.)</p> <p>“Learning Mixtures of Gaussians in High Dimensions” (co-authored with Rong Ge and Sham Kakade, appeared in <i>Symposium of Theory of Computing (STOC)</i>, 2015.)</p> <p>“Minimal Realization Problems for Hidden Markov Models” (co-authored with Rong Ge, Sham Kakade, and Munther Dahleh, appeared in <i>IEEE Allerton Conference</i>, 2014.) (journal version submitted <i>IEEE Transactions on Signal Processing</i>, under peer review.)</p> <p>“\mathcal{H}_2-Based Network Volatility Measures” (co-authored with Ye Yuan, Jorge Goncalves, and Munther Dahleh, appeared in <i>IEEE American Control Conference (ACC)</i>, 2014.)</p> <p>“Efficiency-Risk Tradeoffs in Electricity Markets with Dynamic Demand Response” (co-authored with Mardavij Roozbehani and Munther A Dahleh, appeared in <i>IEEE Transactions on Smart Grid</i>, 2014.)</p> <p>“Efficiency-Risk Tradeoffs in Dynamic Oligopoly Markets - with application to electricity markets” (co-authored with Mardavij Roozbehani and Munther A Dahleh, appeared in <i>IEEE Conference on Decision and Control (CDC)</i>, 2012.)</p> <p>“Queue-Aware Dynamic Clustering and Power Allocation for Network MIMO Systems via Distributive Stochastic Learning” (co-authored with Ying Cui and Vincent Lau, appeared in <i>IEEE Transactions on Signal Processing</i>, 2010.)</p> <p>“Delay-Optimal Orthogonal Beam forming and Power Control for MIMO system with Reduced CSI Feedback” (<i>Technical Report, HKUST</i>, 2010.)</p>