

Chen Qian

CONTACT INFORMATION	School of Information and Communication Engineering Beijing University of Posts and Telecommunications PO Box 100876 Haidian District, Beijing, PR China	<i>Mobile:</i> 86-18911969634 <i>E-mail:</i> chenqianbupt@hotmail.com <i>Personal Homepage:</i> http://lovel520.github.io/
EDUCATION	Bachelor of Communication Engineering (Expected Graduation: Jul. 2016) Beijing University of Posts and Telecommunications <ul style="list-style-type: none">• GPA: Overall: 92.11/100 (top 1% of 589) Major: 94.24 Math-related: 96.18	
PUBLICATIONS	<ul style="list-style-type: none">[1] C. Qian, H. Qian and F. Gao, "Spectrum sensing and SNR walls when primary user has multiple power levels," to appear in <i>Proc. IEEE Int. Conf. Commun. China (ICCC)</i>, Shenzhen, China, Nov. 2015.[2] C. Qian, F. Gao, H. Qian, and T. Zhang, "Sensing and recognition for multiple primary power level scenario with noise uncertainty", submitted to <i>IEEE Trans. Wireless Commun</i> in Nov. 2015.	
RESEARCH EXPERIENCE	Institute of Information Processing <i>Department of Automation, Tsinghua University</i>	Oct. 2014 to Present
	<ul style="list-style-type: none">• Supervisor: Professor Feifei Gao• Program I: Spectrum Sensing When Primary User has Multiple Transmitting Power Levels (Completed)<ul style="list-style-type: none">• Applied GLRT method to compute the decision region for each hypothesis \mathcal{H}_k.• Proposed power recognition strategy and proved its efficiency by simulation.• Analyzed <i>Power Ambiguity</i> and <i>SNR Wall</i> phenomena.• Proposed Cooperative Sensing method to improve the sensing performance.• Finished two papers as the first author (one conference & one journal).• Program II: Optimized Design for Content-Centric Networks with Machine Learning Techniques (In Progress)<ul style="list-style-type: none">• Learned various Machine Learning algorithms, such as ANN.• Got familiar with the theoretical architecture of <i>Content-Centric Networks</i>.• Currently investigating the possibility of optimizing the design of <i>Pending Interest Table</i> (PIT) and <i>Forwarding Information Base</i> (FIB) using ANN and SVM.	
PROJECT EXPERIENCE	Interactive Projection Screen Self-balancing Car Based on Arduino	May. 2014 to May. 2015 June. 2014 to Aug. 2014
	<ul style="list-style-type: none">• Project Aim & Focus: To equip projection with all functions of a touch screen.• Realized communication among four major modules by socket programming.• Localized users' events by image processing.• Improved system accuracy to over 95% through algorithm refining.• Project Aim & Focus: To design and invent a self-balancing car based on Arduino.• Enabled the car to balance itself using PID method.• Enabled the car to straight forward, turn and adjust its speed under commands.	
COMPUTER SKILLS	<ul style="list-style-type: none">• Computer Languages C++, C, Java, VHDL, PHP, SQL, HTML, Assembly• Tools MATLAB, Visual Studio, Eclipse, Quartus II, LaTeX, SQL Server, Final Cut	
HONORS	<ul style="list-style-type: none">• National Scholarship in each school year: 2012–2013 (Rank 3 out of 597) 2013–2014 (Rank 6 out of 600) 2014–2015 (Rank 1 out of 589)• First Prize in "Challenge Cup" Beijing College Student Curricular Academic Science and Technology Works Competition (Top 10% of over 1000 participating teams) May. 2015• National First Prize on "CCTV STAR OF OUTLOOK" English Talent Competition (Rank 1 out of 123 participants) Jul. 2014• Second Prize in Beijing Division on National Undergraduate Mathematical Contest (Top 7% of 30,000 participants) Nov. 2013	