

## CURRENT RESEARCH INTERESTS

Game theory  
Big data  
Compressive sensing  
Intelligent computation algorithm  
Resource allocation in OFDMA networks


## EDUCATION

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|--------------------------|---|
| <b>Sep.2012-Current</b>  | <b>Beijing University of Posts &amp; telecommunications (BUPT)</b> , Beijing, China<br>Master of Engineering, Electronics and Telecommunications Engineering<br>GPA: 80/100 |
| <b>Sep.2008-Jul.2012</b> | <b>Wuhan University of Technology (WHUT)</b> , Wuhan, China<br>Bachelor of Engineering, Electronics Science and Technology<br>GPA: 88/100                                   |





## WORK EXPERIENCE

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| <b>Sep.2013-Current</b>  | <b>Graduate Research Assistant</b> , Dept. of EE, BUPT, Beijing, China.<br>I did research in the area of resource allocation in multiuser OFDM systems, which led to four international conference papers (EI) and one paper (SCEI).   |
| <b>May 2013-Sep.2013</b> | <b>Android R&amp;D Assistant</b> , Beijing Key Lab of Network System Architecture and Convergence, BUPT, Beijing.<br>I have participated in the research and development (R&D) of a video conference system, which supports video conference between PC users and Android users. I was responsible for the development of the user interface for the Android client.   |
| <b>Oct.2012-May 2013</b> | <b>Android R&amp;D Intern</b> , Beijing Novel-TV Media Technology Co., Ltd, Beijing.<br>I have participated in the R&D of a on-line video interactive system, which allows the internet users to watch the live video captured by all kinds of terminals, such as smart phone, PAD and PC. I was responsible independently for the R&D of the Android client, which contains three major functions: user login management, user camera selection management and video capture. |
| <b>Aug.2012-Oct.2012</b> | <b>Graduate Research Assistant</b> , Dept. of EE, BUPT, Beijing, China.<br>I did research in the area of intelligent computation algorithm, such as PSO algorithm, genetic algorithm and Q-learning algorithm.   |


## PUBLICATIONS

- Journal Articles:**  **S. He**, L. Zhang, X. Wen, Z. Zhang, Z. Lu, and Y. Sun, "A Pricing Power Control Strategy with Statistical Delay QoS Provisioning in Two-tier OFDMA Femtocell Networks," in *EURASIP Journal on Wireless Communications*








and Networking, under review.

- Conference Articles:**  **S. He**, L. Zhang, X. Wen, Z. Zhang, Z. Lu, and Y. Sun, "Price-based power control with statistical delay QoS guarantee in two-tier femtocell networks," in *2014 21st International Conference on Telecommunications (ICT)*, May 2014, pp. 318-322.
-  **S. He**, Z. Lu, X. Wen, Z. Zhang, Y. Sun, L. Zhang, "Energy-Efficient Power Allocation with QoS Guarantee in OFDMA Wireless Networks," in *2014 17th International Symposium on Wireless Personal Multimedia Communications (WPMC)*, to be published in Sep. 2014
-  L. Zhang, **S. He**, X. Wen, Z. Wei, J. Zhao, and Z. Hu, "Network mimo with decision tree classification in downlink OFDMA networks," in *2014 21st International Conference on Telecommunications (ICT)*, May 2014, pp. 22~C26.
-  Z. Zhang, X. Wen, Z. Li, **S. He**, W. Jing, and J. Zhao, "Qos-aware energy-efficient power control in two-tier femtocell networks based on qlearning," in *2014 21st International Conference on Telecommunications (ICT)*, May 2014, pp. 313-317.

## PRESENTATIONS

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|----------------------|--|
| <b>May 6th, 2013</b> |  "Price-based power control with statistical delay QoS guarantee in two-tier femtocell networks", Lecture at ICT 2014, Lisbon Institute of University, Lisbon, Portugal |
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## HONORS

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|----------------------------|---|
| <b>Sep. 2012-Sep. 2013</b> |  Third Scholarship, BUPT, Beijing, China   |
| <b>Sep. 2012-Sep. 2013</b> |  Second Scholarship, BUPT, Beijing, China  |
| <b>Sep. 2011-Sep. 2012</b> |  Outstanding Graduate Award, WHUT, Wuhan, China                                      |
| <b>Sep. 2010-Sep. 2011</b> |  National Scholarship of Encouragement, Ministry of Education, China                 |
|                            |  Excellent Student Work Award, WHUT, Wuhan, China                                    |
| <b>Sep. 2009-Sep. 2010</b> |  National Scholarship of Encouragement, Ministry of Education, China                 |
|                            |  Excellent Student Work Award, School of Information Engineering, WHUT, Wuhan, China |
| <b>Sep. 2008-Sep. 2009</b> |  National Scholarship of Encouragement, Ministry of Education, China                 |
|                            |  3-A student award, WHUT, Wuhan, China   |

## SKILLS

**Programming Languages:** Java, C/C++  
**Development Tools:** Eclipse, Matlab  
**Data Analysis:** Origin  
**Development Environment:** Android

## ENGLISH PROFICIENCY

**GRE: 312** Quantitative: 164; Verbal: 148; Analytical Writing: 3.  
**TOEFL: 83** Reading: 26; Listening: 18; Speaking: 18; Writing: 21