

Wenhao Wu

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- OBJECTIVE** A summer internship in wireless communication/software engineering.
- EDUCATION** *Ph.D. Candidate in Electrical and Computer Engineering* 2012 - 2017 (expected)
University of California, Davis, Davis, CA
Advisor: Prof. Zhi Ding
Minor: Mathematics
- B.S. in Electrical Engineering* 2008 - 2012
Tsinghua University, Beijing, China
- TECHNICAL SKILLS**
- Python, C/C++, Matlab/GNU Octave, R.
 - Experience with SQL, HTML, XML, JavaScript, Verilog and assembly for DSP.
 - Basic Linux system administration.
- EXPERIENCE** *Core Engineer Intern* 07/2014 - 09/2014
Range Networks, San Francisco, CA
- Modified the GMSK modulator of openBTS in C++ to reduce the phase error and spectral leakage in multi-carrier configurations. Verified with openBTS dev kit and R&S CMD57 digital radio communication tester.
 - Designed the LTE PRACH receiver and the corresponding testbed with Octave according to TS 36.211 v12.2.0 and tested according to TS 36.141 v12.4.0.
- Graduate Student Researcher* 05/2013 - present
Advisor: Prof. Zhi Ding and Prof. Chengshan Xiao
- Design linear precoder for multi-cell MIMO downlink channel with practical finite-alphabet inputs.
- Teaching Assistant* 01/2013 - 04/2013
EEC 180A Digital Systems, Dept. ECE, UC Davis
- Lab sessions, review sessions and grading.
- PUBLICATIONS**
- [1] W. Wu, K. Wang, W. Zeng, Z. Ding, and C. Xiao, "Cooperative multi-cell MIMO downlink precoding with finite-alphabet inputs", *IEEE Trans. Commun.*, to be published.
 - [2] W. Wu, K. Wang, Z. Ding, and C. Xiao, "Cooperative multi-cell MIMO downlink precoding for finite-alphabet inputs," in *Proc. Int. Conf. Acoust., Speech, Signal Process.*, May 2014, pp. 464-468.
- WEBSITES**
- LinkedIn: <https://www.linkedin.com/pub/wenhao-wu/4b/249/ab>
 - Github: <https://github.com/huragok>

**HONORS &
AWARDS**

Third-class Excellent Social Service Scholarship, Tsinghua University.	10/2011
Honor of Excellent Leader of the Student Association for Science and Technology, Tsinghua University.	04/2011
First-class Outstanding Scholarship (Samsung Scholarship), Tsinghua University/Samsung.	12/2009
Second-class Outstanding Freshman Scholarship, Tsinghua University.	12/2008