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, CA

Advisor: Prof. Zhi Ding
Minor: Mathematics

B.S. in Electrical Engineering Tsinghua University, Beijing, China

2008 - 2012

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 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 various MIMO channels with practical finite-alphabet inputs to improve channel capacity.

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 *IEEE 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