

Wenhao Wu

2064 Kemper Hall, University of California, Davis
Davis, CA, 95616
wnhwu@ucdavis.edu
(530) 601-3821

OBJECTIVE	A summer internship in software engineering/wireless communication.		
EDUCATION	<i>Ph.D. Candidate in Electrical and Computer Engineering</i>	2012 - 2017 (expected)	
	University of California, Davis, Davis, CA Advisor: Prof. Zhi Ding Cumulative GPA: 3.95 Minor: Mathematics		
	<i>B.S. in Electrical Engineering</i>	2008 - 2012	
	Tsinghua University, Beijing, China		
TECHNICAL SKILLS	<ul style="list-style-type: none">• Java, Python, C/C++, Matlab/GNU Octave, R.• Experience with HTML, XML, JavaScript, D3 and CSS.• Basic Linux system administration.		
EXPERIENCE	<i>Graduate Student Researcher</i>	04/2015	
	Advisor: Dr. Xiaoguang “Leo” Liu and Prof. Zhi Ding		
	<ul style="list-style-type: none">• Test the feasibility of the design requirement for the RF Microsystems (TA-1A) in DARPA Near Zero Power RF and Sensor Operations (DARPA-BAA-15-14).		
	<i>Graduate Student Researcher</i>	09/2014 - present	
	Advisor: Prof. Zhi Ding and Prof. Hans D. Mittelmann		
	<ul style="list-style-type: none">• Design Modulation Diversity schemes for various wireless channels by solving Quadratic Assignment Problems (QAPs) to reduce bit error rate (BER).		
	<i>Core Engineer Intern</i>	07/2014 - 09/2014	
	Range Networks, San Francisco, CA. Supervisor: James Peroulas		
	<ul style="list-style-type: none">• 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.		
	<i>Graduate Student Researcher</i>	05/2013 - 09/2014	
	Advisor: Prof. Zhi Ding and Prof. Chengshan Xiao		
	<ul style="list-style-type: none">• Design linear precoder for various MIMO channels with practical finite-alphabet inputs to improve channel capacity.		
	<i>Teaching Assistant</i>	01/2013 - 04/2013	
	EEC 180A Digital Systems, Dept. ECE, UC Davis		
	<ul style="list-style-type: none">• Lab sessions, review sessions and grading.		

PUBLICATIONS

- [1] W. Wu, H. Mittelmann, and Z. Ding, “Modulation design for two-way amplify-and-forward relay HARQ,” submitted for publication.
- [2] W. Wu, K. Wang, W. Zeng, Z. Ding, and C. Xiao, “Cooperative multi-cell MIMO downlink precoding with finite-alphabet inputs,” *IEEE Trans. Commun.*, vol. 63, no. 3, pp. 766-779, Mar. 2015.
- [3] 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