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| **Wenhao Wu** | | | |
| 2064 Kemper Hall, University of California, Davis  Davis, CA, 95616  [wnhwu@ucdavis.edu](mailto:wnhwu@ucdavis.edu)  (530) 601-3821 | | | |
| **OBJECTIVE** | A summer internship in software engineering/wireless communication. | | |
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| **EDUCATION** | *Ph.D. Candidate in Electrical and Computer Engineering* | 2012 - 2017 (expected) | |
|  | University of California, Davis, Davis, CA  Advisor: Prof. Zhi Ding  Minor: Mathematics | | |
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|  | *B.S. in Electrical Engineering* | 2008 - 2012 | |
| Tsinghua University, Beijing, China | | |
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| **TECHNICAL SKILLS** | * Python, C/C++, Matlab/GNU Octave, R. * Experience with HTML, XML, JavaScript, D3 and CSS. * Basic Linux system administration. | | |
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| **EXPERIENCE** | *Graduate Student Researcher* | 09/2014 - present | |
|  | Advisor: Prof. Zhi Ding and Prof. Hans D. Mittelmann   * Design Modulation Diversity schemes for various wireless channels by solving Quadratic Assignment Problems (QAPs) to reduce bit error rate (BER). | | |
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|  | *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. | | |
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|  | *Graduate Student Researcher* | 05/2013 - 09/2014 | |
|  | Advisor: Prof. Zhi Ding and Prof. Chengshan Xiao   * Design linear precoder for various MIMO channels with practical finite-alphabet inputs to improve channel capacity. | | |
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|  | *Teaching Assistant* | 01/2013 - 04/2013 | |
|  | EEC 180A Digital Systems, Dept. ECE, UC Davis   * Lab sessions, review sessions and grading. | | |
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| **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. | | |
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| **WEBSITES** | * LinkedIn: <https://www.linkedin.com/pub/wenhao-wu/4b/249/ab> * Github: <https://github.com/huragok> | | |
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| **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 | |