

CURRICULUM VITAE OF YAN ZHANG

Department of Electrical and Computer Engineering
University of Arizona
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EDUCATION

The University of Arizona, Tucson, AZ (*2009 - Present*)

Ph.D. Candidate, Electrical Engineering, Advisor: Prof. Loukas Lazos, GPA: 3.91/4.00

Nanjing University of Posts and Telecommunications (NUPT), China (*2006 - 2009*)

M.S., Electrical Engineering, Advisor: Prof. Chengqi Xu, GPA: 87/100

Nanjing University of Posts and Telecommunications (NUPT), China (*2002 - 2006*)

B.S., Computer Science, GPA: 90/100, Rank: 6/284

RESEARCH INTERESTS

- Wireless networks (Ad hoc, Cognitive radio, Sensor, Mesh, WiFi, WiMAX networks)
- MAC-layer systems design; Cross-layer design between PHY and MAC
- Security and privacy in wireless networks

TECHNICAL EXPERIENCE AND RESEARCH PROJECTS

Research Assistant, University of Arizona, Tucson, AZ (*Aug. 2009 - Present*)

- **PHY-layer voting for fast cooperation in cognitive radio networks (in progress).**
- **Jamming-resistant MAC protocols for multi-channel wireless networks (in progress).**
- **PHY-aided full-duplex MAC protocol design in multi-channel 802.11 networks.**
- **Secure channel access in multi-channel wireless networks.**
- **Security on MAC protocols in cognitive radio networks.**

Research Assistant, NUPPT, China (*Feb. 2008 - Jan. 2009*)

- **Network coding and its applications in wireless networks.**

Teaching Assistant, NUPPT, China (*Mar. 2008 - Jul. 2008*)

- Fundamentals of Information Theory.

AWARDS AND HONORS

- GPSC Student Travel Grant, University of Arizona, *2013*
- Outstanding Graduate Student, NUPPT, *2007, 2008*
- Tongding Enterprise Scholarship, Tongding Group Co., Ltd., *2005*
- Best Student Award, NUPPT, *2003, 2004, 2005*
- First Prize Award and Outstanding Undergraduate Student, NUPPT, *2004, 2005*
- Second Prize Award and Outstanding Undergraduate Student, NUPPT, *2003*
- Outstanding Summer Intern of Jiangsu Communications Cup, *2003*
- Excellent Student of Wuxi City, *2002*

- Top Ten Young Artist of Wuxi City, 1998

TECHNICAL SKILLS

Computer programming: C/C++, C#, SQL, ASP.NET, Perl, HTML

Simulation/Hardware experiment: OPNET Modeler (event-driven networking simulator), Matlab, USRP/LabVIEW, CSIM

PUBLICATIONS

[1] **Yan Zhang**, Loukas Lazos, Kai Chen, Bocan Hu, and Swetha Shivaramaiah, FD-MMAC: Combating Multi-Channel Hidden and Exposed Terminals Using a Single Transceiver, to appear in *Proc. of The 33rd Annual IEEE International Conference on Computer Communications (INFOCOM 2014)*, Apr. 2014 (acceptance rate 19%).

[2] **Yan Zhang** and Loukas Lazos, Countering Selfish Misbehavior in Multi-channel MAC Protocols, In *Proc. of the INFOCOM conference*, pages 2787 - 2795, 2013 (acceptance rate 17%).

[3] **Yan Zhang** and Loukas Lazos, Vulnerabilities of Cognitive Radio MAC Protocols and Countermeasures, *IEEE Network Magazine*, 27(3): 40-45, 2013.

[4] **Yan Zhang**, Chengqi Xu, and Feng Wang, A Novel Scheme for Secure Network Coding Using One-time Pad, In *Proc. of the International Conference on Networks Security, Wireless Communications and Trusted Computing (NSWCTC)*, volume 1, pages 92-98, 2009.

[5] **Yan Zhang**, A Study on An Improved Secure Network Coding Scheme, In *Proc. of the China 15th Symposium on Information Theory (CSIT)*, pages 1-5, 2008.

[6] **Yan Zhang**, On Network Coding in Wireless Ad Hoc Networks, In *Proc. of the third China Annual Conference on Radio Applications and Management (CRAM)*, pages 1-5, 2008.

[7] Feng Wang, Chengqi Xu, Xuande Ji, and **Yan Zhang**, Performance Analysis of Time-Hopping Pulse Width Modulation for Ultra-Wideband Impulse Radio, In *Proc. of the IEEE International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM)*, pages 1-5, 2008.

[8] Feng Wang, Chengqi Xu, Xuande Ji, and **Yan Zhang**, Simplified Maximum Likelihood Channel Estimation Algorithm for Impulse Radio UWB, In *Proc. of the IEEE International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM)*, pages 1-5, 2008.