

# Mr. Jinjing Jiang

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## EDUCATION

- 09/2005 – present **Washington University in St. Louis, St. Louis, USA**  
Department of Computer Science and Engineering  
Major: Computer Science  
Ph.D. student
- 09/2002 – 02/2005 **Tsinghua University, Beijing, China**  
Department of Electronic Engineering  
Major: Information and Communication Engineering  
Master Degree of Science
- 09/1998 – 07/2002 **University of Shanghai for Science and Technology, Shanghai, China**  
College of Computer Engineering  
Major: Electrical Information Technology  
Bachelor Degree of Engineering

## RESEARCH EXPERIENCE

- 09/2005 – Present **Wireless Networks, Washington University in St. Louis**  
Working as a research assistant doing research on wireless networks (under Prof. Raj Jain).
- 09/2004 – 04/2005 **Machine Learning, Microsoft Research Asia**  
Worked as a visiting student doing research on Microsoft's project on Machine Learning and Statistical Learning (under Dr. John Chen).
- 09/2003 – 02/2005 **MIMO Systems and Wireless Communications, Tsinghua University**  
Developed algorithms for multi-antenna transceivers, diversity and multiplexing tradeoff theory, multi-user information theory, and space time coding.
- 09/2002 – 09/2003 **Microwave Multi-band Relay System, Tsinghua University**  
Designed and implemented a digital baseband processing software module in building a Microwave Multi-band Relay System.
- 09/2002 – 01/2003 **3.5G Broadband Multimedia Wireless Access System, Tsinghua University**  
Designed and debugged the baseband module hardware for a 3.5G Broadband Multimedia Wireless Access System.
- 02/2002 – 08/2002 **Satellite Communications, First Research Institute of Telecommunications Technology, Ministry of Information Industry (MII), China**  
Worked as a visiting student developing indoor circuit unit for satellite communications devices.

## COMPUTER SKILLS

- Program Language: C&C++, VHDL, Matlab, Perl, Latex
- EDA tools: NS2, PSPICE, Protel
- Operation System: DOS, Windows, Unix

## PUBLICATIONS

- Jinjing Jiang, Yan Zhu, Cong Shen, and Shunliang Mei, "**Adaptive V-BLAST with Partial Channel State Information Feedback**", IEEE APCC 2004, Vol. 1, Page(s):161-164, 29 Aug.-1 Sept. 2004.
- Weiyu Xu, Jinjing Jiang, et.al, "**An Efficient Tree Search Algorithm for Optimal Detection of MIMO Signals with Channel Estimation Errors**", VTC2004-Fall, Vol. 2, Page(s):1503-1507, October 13-16, 2004.
- Yan Zhu, Jinjing Jiang, Cong Shen and Jing Wang, "**A Novel Transmit Optimization Scheme for MIMO Spatial Multiplexing Systems**", IEEE MILCOM 2004, Vol. 1, Page(s):436 - 440, 31 Oct.-3 Nov. 2004.
- Cong Shen, Yan Zhu, Shidong Zhou, and Jinjing Jiang, "**On the Performance of V-BLAST with Zero-Forcing Successive Interference Cancellation Receiver**", IEEE Globecom 2004, Vol. 5, Page(s): 2818-2822, Nov. 29-Dec. 3, 2004.

## RESEARCH INTERESTS

- Stochastic Networks
- Information Theory
- Applied Mathematics

## AWARDS

- Infineon Scholarship for Excellence, Tsinghua University, October 2004
- Honored undergraduate student of USST, July 2002
- Second Prize of Shanghai for National College Student Mathematic Contest in Modeling, May 2002
- Top Prize Fellowship for Excellence of USST, July 1999
- First Prize Fellowship for Excellence of USST, January 2000
- Second Prize Fellowship for Excellence of USST, January 1999, July 2000, January 2001, July 2001

## PROFESSIONAL ACTIVITIES

- Student Member of IEEE Information Theory Society
- Student Member of SIAM
- Student Member of China Institute of Communications
- Paper reviewer for IEEE VTC 2005

## REFERENCES

- **Prof. Raj Jain**  
Professor, Department of Computer Science and Engineering, Washington University in St. Louis  
Co-Founder and Chief Technology Officer, Nayna Networks, Inc., Milpitas, CA  
Campus Box 1045, One Brookings Drive, St. Louis, MO 63130

Tel: 314-935-4963

Email: [jain@cse.wustl.edu](mailto:jain@cse.wustl.edu)

- **Dr. John Z. Yu**

Founder, Hammerhead Systems, Inc. (a VC-founded startup developing next-generation broad-band data communications equipment for service providers)

640 Clyde Court, Mountain View, CA 94043, USA

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- **Prof. Shunliang Mei**

Principal Investigator, State Key Lab on Microwave and Digital Communications

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