

Peng Jiang

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EDUCATION

- Ph.D in computer science at University of Illinois at Urbana-Champaign* August 2007-present
Master of Science in Computer Science September 2003-April 2006
Nanjing University of Posts and Telecommunications (NUPT), China. GPA: 85.1/100
Bachelor of Science in Computer Science September 1999-July 2003
Nanjing University of Posts and Telecommunications (NUPT), China. GPA: 4.0

HONOURS AND AWARDS

- Applied for two patents 2007
- The best graduate thesis in Jiangsu Province of China 2006
- Third Prize in Advanced Mathematics, annual Competition held by universities in Jiangsu Province 2000
- First Prize in Mathematics, annual National Competition held by Association of High Schools 1996
- Outstanding Research Assistant in Computer Science, NUPT 2005
- Outstanding graduate student, NUPT 2004
- Honoured Graduate (the proportion is less than 1%), and the First Prize Graduation Thesis, NUPT 2003
- Outstanding Student Leader (the proportion is less than 1%), NUPT 2002
- First Prize Award, NUPT 2001
- Outstanding Undergraduate Student, NUPT 1999-2001

EXPERIENCE

Teaching Activities:

Teaching Assistant of “Intro to Numerical Analysis”, UIUC August 2007- present
Graded assignments, and taught review sessions.

Assistant Professor in Tongda College, NUPT April 2006-present
Opened courses like *Computer Multi-application, Programming Languages, Data Structures, as well as Design and Analysis of Algorithms*. Led student team for a graduate project called *Implementation of a Distributed File-Sharing System*.

Teaching Assistant in Computer Science, NUPT September 2002- November 2002
Held office hours, graded assignments, and taught review sessions.

Research Projects:

Research Assistant in Computer Science, NUPT May 2005- November 2005
Completed two semesters of independent research on the project called *High-Performance Algorithms for Scientific Computing*, supported by the Natural Science Foundation of Jiangsu Province, China. Proposed and compared six algorithms for solving large-scale systems in six papers (Publication [1-6]). Implemented all algorithms in C++.

Research Assistant in Computer Science, NUPT

July 2003- May 2004

Conducted research in a security model of grid computing environment. Implemented all components in C.

Internship Experience:

Full-time Intern in Motorola, Nanjing Center, China

June 2004- April 2005

Developed on J2ME and implemented JSR135 Specification on Motorola's platform. Used softwares like ClearCase, PST and RTA. Trained new interns.

Full-time Intern in ZTE, Nanjing Center, China

March 2003 –June 2003

Tested a new solution to a secure WLAN. Analyzed security protocols like IEEE 802.11i with respect to data confidentiality, integrity, mutual authentication, and availability.

PUBLICATIONS

- [1]. **Peng Jiang**, Geng Yang, Performance Analysis of Preconditioners Based on Broyden Method, Applied Mathematics and Computation, 2006, 178(2): 295-308.
- [2]. Geng Yang, **Peng Jiang**, SSOR and ASSOR Preconditioners for Block-Broyden Method, Applied Mathematics and Computation, 2007, 188(1): 194-205.
- [3]. **Peng Jiang**, Geng Yang, Chunming Rong, Combined Method for Nonlinear Systems of Equations, in the International Conference on Computational Science (*ICCS 2006*), Springer-Verlag LNCS-IV, 3994: 693-699.
- [4]. **Peng Jiang**, Geng Yang, Chunming Rong, Performance Analysis of Block Jacobi Preconditioning Technique Based on Block Broyden Method, in the International Conference on Computational Science (*ICCS 2006*), Springer-Verlag LNCS-I, 3991: 794-797.
- [5]. **Peng Jiang**, Yang Geng, A preconditioning Method Based on Broyden algorithm, Journal of Nanjing University of Posts and Telecommunications (a periodical listed on EI), 2006, 26(3): 58-61. (in Chinese)
- [6]. **Peng Jiang**, An Improved Iteration Algorithm for Solving Linear Equations, Journal of Xi'an University of Posts and Telecommunications, 2006, 3:70-72. (in Chinese)
- [7]. **Peng Jiang**, A New Way to Enhance WLAN Security, Journal of Jiangsu Communication Technology, 2005, 21(99): 34-36. (in Chinese)
- [8]. Shangdong Liu, **Peng Jiang**, The Application of BGP Protocol, Journal of Computer New technology and Computer Continuing Education, 2005, 13: 433-436. (in Chinese)
- [9]. Jiangang Shen, Yunping Dai, **Peng Jiang**, The Research of An Extended DSR Routing Protocol, Journal of Computer New technology and Computer Continuing Education, 2004, 12: 185-188. (in Chinese)