

Ming Chen

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Educations

- [Stony Brook University](#), Department of Computer Science, PhD (GPA 3.9) Aug. 2011 – Present
- [Beihang University](#) (BUAA), Department of Computer Science and Engineering
 - Master of Engineering in Computer Application Sep. 2007 – Jan. 2010
 - Bachelor of Engineering in Computer Science and Technology Sep. 2003 – Jul. 2007

Courses

- CSE595, [Storage System](#), Prof. Erez Zadok [[CODE](#)] Spring 2012
- CSE547, [Discrete Mathematics](#), Prof. Anita Wasilewska Spring 2012
- CSE532, [Theory of Database Systems](#), Prof. Himanshu Gupta Spring 2012
- CSE549, [Computational Biology](#), Prof. Steven Skiena [[CODE](#)] Fall 2011
- CSE548, [Analysis of Algorithm](#), Prof. Michael Bender Fall 2011
- CSE506, [Operating System](#), Prof. Don Porter [JOS] Fall 2011

Honors & Awards

- Sogou Best Rookie (10%) 2011
- BUAA Outstanding Graduate Thesis (3%) 2010
- BUAA Excellent Graduate Student (5%) 2009
- Qian Changzhao & Shen Xingyuan Scholarship (1%) 2007
- Tri-Excellent Student Honor (5%) 2007
- [Feng Ru Cup](#) Contest 2nd Prize (10%) 2006
- BUAA Excellent Student (5%) 2005
- Excellent Study Scholarship (10%, 5%, 10%) 2004, 2005, 2006
- BUAA Student Leader (5%) 2003

Professional Experiences

- Teaching Assistant, Stony Brook University Aug. 2011 – Present
 - Teach courses of [C](#) (CSE130), [C++](#) (CSE230), [Java](#) (CSE214), [Web Design](#) (CSE102)
- Research Engineer, [Sogou](#), Beijing, China Jan. 2010 – Jul. 2011
 - Research and engineer in NLP as one of the core 4 members in IME-Research Group
 - Train language models for our [industry-leading IME product](#) by mining web scale corpus
 - Develop MapReduce algorithms to improve the performance of [Sogou Cloud Pinyin](#)
- Research Intern, Microsoft Research Asia, Beijing, China Jul. 2009 – Oct. 2009
 - Did research about CAPTCHA in Multimedia Security Team, Multimedia Computing Group
 - Improved readability using image processing and computer graphics techniques
 - Evaluated security by analyzing their resistance to image processing and OCR attacks
- Engineering Intern, IBM Global Business Service, Beijing, China Oct. 2006 – Feb. 2007
 - Assisted IBM engineers in establishing a software engineering training program
 - Developed and documented a large Java EE project as a practical model for the program
- Research Assistant, Sino-German Joint Software Institute, Beijing, China Jan. 2005 - Jul. 2006
 - Established and finished a research project named “Prototype of Active Service Based on Wireless Network Environment” in “[Scientific Research Training Program](#)” of BUAA
 - Implemented a demo in the scenario of active product recommendation in supermarket

Publications

- **Ming Chen**, Zhenyong Chen, Xiao Zeng, and Zhang Xiong, “[Model Order Selection in Reversible Image Watermarking](#),” IEEE Journal of Selected Topics in Signal Processing, vol. 4, no. 3, pp. 592-604, June 2010.
- Lixin Luo, Zhenyong Chen, **Ming Chen**, Xiao Zeng, and Zhang Xiong, “[Reversible Image Watermarking Using Interpolation Technique](#),” IEEE Transactions on Information Forensics and Security, vol. 5, no. 1, pp. 187-193, March 2010.
- **Ming Chen**, Zhenyong Chen, Xiao Zeng, and Zhang Xiong, “[Reversible Data Hiding Using Additive Prediction-Error Expansion](#),” ACM Workshop on Multimedia and Security, Princeton, NJ, 2009, pp. 16-21.
- **Ming Chen**, Zhenyong Chen, Xiao Zeng, and Zhang Xiong, “[Reversible Image Watermarking with Full Context Prediction](#),” IEEE International Conference on Image Processing, Cairo, Egypt, 2009, pp. 4253-4256.
- Lei Gong, Yuebin Bai, **Ming Chen**, Depei Qian, “[Link Availability Prediction in Ad Hoc Networks](#),” IEEE International Conference on Parallel and Distributed Systems, Australia, 2008, pp. 423–427.
- Mo Sha, **Ming Chen**, Yuebin Bai, Boliang Chen, and Xiaocong Wang, “[A Prototype for Active Service System](#),” Japan-China Joint Workshop on Frontier of Computer Science and Technology, Wuhan, China, 2007, pp.35–40.

Engineering Projects

- Video Surveillance System, Sinopec Daqing Sep. 2008 – Jan. 2009
 - Developed the center controller, which is a server and a monitor of clients (cameras)
 - Developed the common interfaces for cameras from different manufacturers
- Online Apparel Customization System, 28Shows Ltd. Jul. 2007 – Aug. 2008
 - Led a team for the development of the core unit, which is an online t-shirt designer
 - Developed two generations of the frontends (Ajax and Flex) and the backends (Java 2D)
- Electronic Voting System, Hong Kong Congress Mar. 2007 – Jul. 2007
 - Developed the Pre/post Module, which is a database editor (Windows application)
- Web Systems, Beijing Public Security Bureau, Haidian District Jul. 2006 – Jul. 2007
 - Led a 3-member-team in developing a news portal and a financial report & chart system
 - SQL Server, Hibernate, JSP, Struts, JFreechart, Displaytag

Academic Activities

- Review papers for [Journal of Systems and Software](#), [IEEE Transaction on Information Forensics & Security](#) and [Information Hiding](#)
- Organize Microsoft Research Asia academic talk “[Dialogue with Tony Hoare](#)”

Technical Skills

- Programming: C, C++, Java, Python, Matlab, SQL, JavaScript, Bash Shell, ActionScript
- Development: GNU tools (GCC, GDB, Autotools...), Hadoop, Visual Studio, Software frameworks, Web development tools, DBMSs

Personal Interests

- I love programming and take it as my special hobby. Much of my leisure time is spent on solving [ACM/ICPC problems at POJ](#). I am proud to show off my [first programming textbook](#) signed by the author Brian W. Kernighan.
- I love basketball. I was point guard of a small team, and we won a [championship](#) once.