

Shaomei Wu

115 S Quarry Street
Apartment 11
Ithaca, NY 14850, USA

Voice: (607) 279-9513
E-mail: sw475@cornell.edu
Web: www.cs.cornell.edu/~sw475

EDUCATION

Ph.D. Information Science, Cornell University, May 2011 (expected)

M.S. Computer Science, University of California, Santa Barbara (UCSB), August 2007

B.S. Computer Science, Tsinghua University, Beijing, China, July 2005

INDUSTRIAL EXPERIENCE

Software Engineering Intern

June 2007–August 2007

Instant Search Team

Google Kirkland, WA

Research on Automatic Hub Pages Detection for Instant Crawling. My work is to automatically extract the webpages, which regularly producing high quality fresh outlinks (hub pages), from Google's database based on page history. I was involved to explore the current hub-scoring mechanism, and furthermore developed a SVM machine-learning based scoring model.

Software Engineering Intern

July 2006–September 2006

Web Social Network Mining Project

Google Beijing, China

Research on large scale web Social Network Community Mining: focus to detect social communities through online interactions in social network websites. The challenge is to find out a highly scalable algorithm which can provide overlapping communities representation. Administration of *Fotofiti*, a photo-sharing social network.

Research Intern

July 2004–July 2005

System Research Group

Microsoft Research Asia, Beijing, China

Research and development of *Z-Ring*, a novel highly scalable peer-to-peer routing protocol for extremely large scale networks; optimization to the original algorithm. (See Z-Ring paper in ICNP 2005).

ACADEMIA EXPERIENCE

Research Assistant

April 2007–June 2007

Multimedia Database Lab

UCSB, CA

Research on the community structure over large-scale blog social networks.

Research Assistant

September 2005–June 2006

CURRENT Lab

UCSB, CA

Research on Location Independent Compact Routing in ad-hoc networks: designed and implemented a new table-driven routing protocol with compressed routing table in the form of bloom filters. This routing algorithm reduces control overhead and also adapts networking mobility. (See LICR paper in MobiShare, 2006).

Research Assistant

December 2003–December 2004

Intelligent Technology and System Lab

Tsinghua University, Beijing, China

Developed of a key component in Chinese Situation-based Lexical Semantic Knowledge Database: Attribute Dependency Network, with specialization on analyzing attribute-value-host dependency in Chinese language. Another project focused on the research and implementation of *Cylindrical Panorama Based Campus Virtual Tour System*, a feasible and effective virtual reality system by graph-matching and panorama stitching. (See Virtual Tour Paper in VSMM 2005).

Undergraduate Research Training Participant
Network Research Group
Led the project of designing the architecture of an 16-bit experimental CPU in VHDL language.

September 2003–January 2004
Tsinghua University, Beijing, China

Research Assistant
Grid Research and Application Lab

Sep. 2002–Jun. 2003, Mar. 2005–Jun. 2005
Tsinghua University, Beijing, China

Started my first research project of design and implementation of *X-NIndex*, a new model for representing data intensive XML documents, which achieves great efficiency improvement than other XML query schemes. (See X-NIndex paper in GCC 2003). Also finished my undergraduate thesis by proposing and constructing *Grid Meta-statistics Service*, a new information integration and data collaboration service for Globus Toolkit 4, which provides an easy, safe, scalable and stable solution to integrate diverse data and enables users to get a global view of Grid performance by statistical methodology. (See Global Statistics paper in HPC Asia 2005).

PUBLICATIONS

“Location Independent Compact Routing for Wireless Networks,” Robert Gilbert, Kerby Johnson, **Shaomei Wu**, Ben Y. Zhao, and Haitao Zheng, in Proc. of *ACM MobiShare 2006*.

“Z-Ring: Fast Prefix Routing via a Low Maintenance Membership Protocol,” Qiao Lian, Wei Chen, Zheng Zhang, **Shaomei Wu**, and Ben Y. Zhao, in *13th IEEE International Conference on Network Protocols (ICNP 2005)*.

“Campus Virtual Tour System: Basing on Cylindrical Panorama,” **Shaomei Wu**, Renshen Wang, Jiaxin Wang, in *11th International Conference on Virtual Systems and Multimedia (VSMM 2005)*.

“GlobalStat: A Statistics Service for Diverse Data Collaboration and Integration in Grid,” **Shaomei Wu**, Zhihui Du, in *8th International Conference on High Performance Computing in Asia Pacific Region (HPC Asia 2005)*

“X-NIndex: A High Performance Stable and Large XML Document Query Approach and Experience in TOP500 List Data,” **Shaomei Wu**, Xuan Li, Zhihui Du, in *2nd International Workshop on Grid and Cooperative Computing (GCC 2003)*

TEACHING EXPERIENCE

Teaching Assistant, PSYCH/INFO/COGST 214/614: Cognitive Psychology, Cornell, Fall 2007

Teaching Assistant, CS10: Object Oriented Programming in Java, UCSB, Winter 2007

Teaching Assistant, CS276: Graduate Networking, UCSB, Fall 2006

Teaching Assistant, CS290F: Large-scale Networking Systems, UCSB, Spring 2006

Teaching Assistant, CS5JA: Introduction to Computer Programming, UCSB, Winter 2006

Teaching Assistant, CS170: Operation System, UCSB, Fall 2005

HONORS and AWARDS

NSP sponsored student in the *3th International Conference on Networking System Design and Implementation (NSDI '06)*, May 2006

Tsinghua-Chen, Zhifu Academic Scholarship, Tsinghua University, 2004

Excellent student leader prize in C.S. Department, Tsinghua University, 2003

Scholarship for excellent performance in academic work, Tsinghua University, 2002

Scholarship for excellent performances in literature and art, Tsinghua University, 2002

Ranked top 20 in 200,000 students in College Entrance Exams, Fujian Province, 2001

References

<i>Feng Hu</i>	feng@google.com	Google Kirkland	Lead Engineer
<i>Jiakai Liu</i>	jiakai@google.com	Google Beijing	Software Engineer
<i>Wei Chen</i>	weic@microsoft.com	Microsoft Research Asia	Lead Researcher
<i>Ben Y. Zhao</i>	ravenben@cs.ucsb.edu	UCSB	Assistant Professor
<i>Zhihui Du</i>	duzh@tsinghua.edu.cn	Tsinghua University	Associated Professor