

Advisor: Dr. Ruibing Hao

o Developed a system for verifying network routing protocols with randomized algorithms.

- **Research Assistant, Network and Database Group, Peking University, China.**

Advisor: Prof. Ming Zhang

06/2002 - 12/2002

o Co-developed a text classification system with various machine learning approaches.

Professional Skills

- Proficient in C/C++/STL, Java, Javascript/AJAX and SQL. Programming experience with Perl, Python and scripts.
- Proficient in algorithm design and standard data structures.
- Advanced knowledge on database system, server architectures, programming language design and distributed systems.
- Experience on designing and building large-scale systems.
- Experience on data analysis on large scale datasets

Related Courses

- The Architecture of Large-Scale Information Systems
- Advanced Database System
- Advanced topics in Machine Learning
- Advanced Design & Analysis Algorithms
- Theory of Computing
- Research in Computer Networks
- Advanced Programming Languages

Patents

- *Method and/or System for Schema and View Generation.* Co-inventor with Chavdar Botev, Nitin Gupta, George Levchenko and Jayavel Shanmugasundaram, US Patent pending, 2007
- *Offline Operations for Online Applications.* Co-inventor with Nitin Gupta and Jayavel Shanmugasundaram, US Patent pending, 2007

Publications

- *A Unified Platform for Data Driven Web Applications with Automatic Client-Server Partitioning.* Fan Yang, Nitin Gupta, Nicholas Gerner, Xin Qi, Alan J. Demers, Johannes Gehrke, Jayavel Shanmugasundaram: WWW Conference 2007
- *Hilda: High Level Language for Data Driven Applications.* Fan Yang, J. Shanmugasundaram, Mirek Riedewald, Johannes Gehrke, and Alan Demers, ICDE Conference 2006
- *Efficient Keyword Search over Virtual XML Views.* Feng Shao, Lin Guo, Chavdar Botev, Anand Bhaskar, Muthiah M. Muthiah Chettiar, Fan Yang, Jayavel Shanmugasundaram: VLDB Conference 2007
- *User-centric personalized extensibility for data-driven web applications.* Nitin Gupta, Fan Yang, Alan J. Demers, Johannes Gehrke, Jayavel Shanmugasundaram: SIGMOD Conference 2007
- *Automatic Client-Server Partitioning of Data-Driven Web Applications.* Nicholas Gerner, Fan Yang, Alan Demers, Johannes Gehrke, Mirek Riedewald and Jayavel Shanmugasundaram SIGMOD Conference 2006
- *Quark: An Efficient XQuery Full-Text Implementation.* Anand Bhaskar, Chavdar Botev, Muthiah M Muthaia Chettiar, Lin Guo, Jayavel Shanmugasundaram, Feng Shao and Fan Yang. SIGMOD Conference 2006