

Ming Fu

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USTC Suzhou, Jiangsu 215123, China
- Research Interests** Parallel programming language design and implementation, Transactional memory, Concurrency verification, Program logics for reasoning about concurrent programs, language-based security, certifying and certified compiler, and proof-carrying code.
- Education** Ph.D. in Computer Science, University of Science and Technology of China, July 2010.
Advisor: Professor Yiyun Chen & Professor Zhong Shao & Associate Professor Yu Zhang.

B.S. in Computer University of Science and Technology of China, July 2004.
- Research Experience** **Yale University**, New Haven, CT, October 2009 – October 2010
Visiting research assistant. Advisor: Zhong Shao.

USTC-Yale Joint Research Center for High-Confidence Software, Suzhou, China,
July 2008 – Present
Phd. Student. Advisor: Zhong Shao, Yiyun Chen and Yu Zhang.

University of Science and Technology of China, Hefei, China, July 2004 – June 2008
Phd. Student. Advisor: Yiyun Chen and Yu Zhang.
- Teaching Experience** **Teaching Assistant** of *Discrete Mathematics*, College of Software, University of Science and Technology of China, Spring 2009.

Teaching Assistant of *Data Structure*, University of Science and Technology of China, Fall 2005.
- Awards & Honors** Student grants for attending CONCUR'10.

Third prize fellowship of University of Science and Technology of China, 2000

New student fellowship of University of Science and Technology of China, 1999
- Publications** *On concurrency verification:*
- [1] Ming Fu, Yong Li, Xinyu Feng, Zhong Shao, and Yu Zhang. Reasoning about optimistic concurrency using a program logic for history, *Proc. of 21st International Conference on Concurrency Theory (CONCUR'10)*, Paris, France, August 2010. Lecture Notes in Computer Science Vol.6269, pages 388-402, 2010 Springer-Verlag.

- [2] Yong Li, Yu Zhang, Yiyun Chen and Ming Fu. Formal reasoning about lazy-STM programs. *Journal of Computer Science and Technology* , 25(4):841-852, 2010
- [3] Ming Fu, Yu Zhang and Yong Li. Formal verification of concurrent programs with read-write locks. *Frontiers of Computer Science in China* , 4(1): 65-77, Jan.2010. DOI: 10.1007/s11704-009-0067-6.
- [4] Ming Fu, Yu Zhang and Yong Li. Formal reasoning about concurrent assembly code with reentrant locks. *Proc. of 3rd IEEE International Symposium on Theoretical Aspects of Software Engineering(TASE 2009)* , July 29-31, 2009, Tianjin, China. IEEE Computer Society Order Number P3757: 233-240.
- [5] Yong Li, Yu Zhang, Yiyun Chen and Ming Fu. On the verification of strong atomicity in programs using STM. *Proc. of 3rd IEEE International Conference on Secure Software Integration and Reliability Improvement(SSIRI2009)* , July 8-10, 2009, Shanghai, China. IEEE Computer Society Order Number P3758: 117-125.

On XML query optimization:

- [1] Ming Fu and Yu Zhang. Homomorphism resolving of XPath trees based on automata. *Proc. of a joint conference of the 9th Asia-Pacific Web Conference and the 8th International Conference on Web-Age Information Management (APWeb/WAIM 2007)* , Huang Shan, China, June 16-18, Lecture Notes in Computer Science Vol.4505, pages 821-828, 2007.