

Liang Tang

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Education

09/2002 – 07/2006 **Sichuan University** (Chengdu, China)

Department of Computer Science & Technology

Bachelor of Computer Science & Technology

GPA: 3.47/4.0(Major) 3.48/4.0(Last 2 years) 3.38/4.0 (Overall) Rank: **top 10%**

09/2006 – 07/2009 **Sichuan University** (Chengdu, China)

Department of Computer Science & Technology

Master Degree: Computer Application Technology. Research Field: **Data mining and Database**

GPA: 3.37/4.0(Major) 3.29/4.0(Overall)

Research Experience

Microsoft Research Asia (Beijing, China)

Visiting Student in DIT (Data Intelligence and Tools) Group, 05/2007 – 12/2007

- Developed a tool of CART (Classification and Regression Tree) algorithm on a large-scale parallel computing system, and applied it to analyze the Windows Vista boot time dataset to discover causal knowledge about the bottleneck of Windows startup. In charge of implementation using C++ and parallel version of algorithm design.
- Developed a middle querying engine to handle multidimensional query on a *BigTable* system (a distributed data table), which was used by several research teams in DIT group of MSRA. In charge of the architecture design and implementation of kernel engine using C++.

Database and Knowledge Engineering Institute (Chengdu, China)

Research Assistant, 09/2006 – Present

- Designed and Implemented *Knowledge discovering system based on gene expression*, which was supported by Software Innovation Foundation of Project of Sichuan Youth (No.2005AA0807). In charge of the parallel evolution part of gene expressions on multiply machines.
 - Participated in *National Birth Defects Supervision Project (China)*, which was supported by the 11-th Five Years Key Programs for Sci. &Tech. Development of China under grant no. 2006BAI05A01. In charge of the architecture to combine OLAP module and a variety data mining algorithms on the birth defect dataset to analyze causal and intervention knowledge.
 - Participated in *National Earthquake Detection and Reporting System (China)*, which was directed by Seismology Bureau of Sichuan Province in 2007. In charge of development of GIS user interface module and rapid reporting generating module.
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Work Experience

United Ideas Soft Co., LTD. (Chengdu, China)

Part-time Software Engineer, 12/2003 – 08/2006

- Explored the techniques of J2ME Mobile software development, such as wireless network communication among mobiles, J2ME graphics. As a team leader, directed the developments of formal products of J2ME Mobile video game.

- Mastered the techniques of software development on Symbian OS¹, developed and maintained a specific C++ library that encapsulated complex invoking of network, storage and graphics of Symbian OS. This library was provided to several product teams to develop mobile software running on Symbian OS.

Publications

1. [SLICE: A Novel Method to Find Local Linear Correlations by Constructing Hyperplanes](#), by **Liang Tang**, Changjie Tang, Lei Duan, Yexi Jiang, and Jun Zhu. *Proceeding of the Joint International Conferences on Asia-Pacific Web Conference and Web-Age Information Management (APWEB-WAIM)*, 2009.
2. [Core-Tag Clustering for Web 2.0 based on Multi-Similarity Measurements](#), by Yexi Jiang, Changjie Tang, Kaikuo Xu, Lei Duan, **Liang Tang**, Jie Gong. *The International Workshop on Database and Information Retrieval & Aspects in Evaluating Holistic Quality of Ontology-based Information Retrieval (APWeb-WAIM Workshop)*, 2009.
3. [MovStream: An Efficient Algorithm for Monitoring Clusters Evolving in Data Streams](#), by **Liang Tang**, Changjie Tang, Lei Duan, Chuan Li, Yexi Jiang, Chunqiu Zeng, and Jun Zhu. *Proceeding of the 2008 IEEE International Conference on Granular Computing*, pp. 582-587, 2008.
4. [TROADGrid: An Efficient Trajectory Outlier Detection Algorithm with Grid-based Space Division](#), by **Liang Tang**, Changjie Tang, Yexi Jiang, Chuan Li, Lei Duan, Chunqiu Zeng, Kaikuo Xu. *Proceeding of the National Database Conference (China)(NDBC)*, pp. 185-190, 2008.
5. [MPSQAR: Mining Quantitative Association Rules Preserving Semantics](#), by Chunqiu Zeng, Jie Zuo, Chuan Li, Kaikuo Xu, Shengqiao Ni, **Liang Tang**, Yue Zhang, Shaojie Qiao. *Proceeding of the International Conference on Advanced Data Mining and Applications (ADMA)*, pp. 572 – 580, 2008.

Awards & Honors

11/2008	The Excellent Graduate Student Award of Sichuan University in 2007-2008.
12/2006	The 2 nd National Open Source Software Competition (China), Award finalists
06/2006	Amway College Student's computer works competition, Second class award.
04/2005	The 4 th ACM Programming Contest of Sichuan University, winner's prize.
01/2004	Microsoft MVP (Most Valuable Professional) Award (Visual C++) . <i>It targets the experts all over the world who mastered the technologies of Microsoft's product.</i>
04/2004	The Initiative Student Award of Computer School of Sichuan University.
2003-2004	The Excellent Student Award of Sichuan University in 2003-2004 School Years.
2002-2004	The Scholarships of Sichuan University from 2002 to 2004 School Years.

Activity

01/2004 – 12/2004 Minister of technique department of Microsoft Technology Club
Organized and gave several software technical talks in Sichuan University.

Skills

- Proficient in using C/C++, Java to develop large-scale software systems.
- Familiar with MATLAB, Python.

¹ Symbian is a widely used operating system embedded in many smart mobile phones including phones of Nokia, Motorola, Sony Ericsson, etc..