

Yexi Jiang

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Research Interests

System Event Data Processing, Data Mining, Cloud Analytics, Database, Information Retrieval

Education

2010.8 - Present	Florida International University, Florida, United States Ph.D. in Computer Science
2007.9 - 2010.7	Sichuan University, Chengdu, Sichuan, China M.S. in Computer Science
2003.9 - 2007.7	Sichuan University, Chengdu, Sichuan, China B.E. in Computer Science

Professional Experience

Research Intern	Cloud Platform Technology Group, IBM T.J Watson Research Center	2012.5 - 2012.8 New York, NY
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- *Cloud Services Marketplace.* The goal of this project is to provide an intelligent platform to facilitate the service acquisition for the customers. This platform enables the service customers to chat with the service platform in natural language and helps them to quickly find out the correct solution based on their business requirements.

Research Intern	Service Management Environments Group, IBM T.J Watson Research Center	2011.5 - 2011.8 New York, NY
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- *Intelligent Cloud Capacity Management.* This project focuses on cloud capacity prediction, one of the emerging problems by which the cloud service providers are concerned. We proposed an integrated solution of intelligent cloud capacity estimation for the IBM Smart Cloud Enterprise (SCE) to reduce the unnecessary energy consumption.
- *Cloud Service Provisioning Demands Prediction.* Designed an online temporal data mining system for modeling and predicting the cloud VM demand, then provision VMs in advance.

Research Assistant	Knowledge Discovery Research Group, Florida International University	2010.8 - Present Miami, FL
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- *System Event Summarization*. This project focuses on facilitating the diagnosis of computer systems based on system logs summarization. We proposed a novel framework called *Natural Event Summarization (NES)* to summarize the event log by capturing the temporal pattern among events. Given the system log, NES is able to discover the multi-party relationships among events and facilitate the analytic tasks of the system administrators.
- *Dynamic Query Form for Database Query*. This project focuses on facilitating complicated query tasks for users. We proposed a query system that is convenient for non-expert user to query information from semi-structured data. The system is able to dynamically generate query form that satisfy the potential requirement of the users by inferencing the intention of the users during interaction.

Full-time Intern	Data Intelligence and Tools Group, Microsoft Research Asia	2009.3 - 2009.7 Beijing, China
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- *Office usage behavior pattern mining*. The goal of this project is to discover useful usage behavior to help ameliorate the UI layout of *Office*. We developed a frequent sequence mining algorithm in a distributed computing environment, and applied it to analyze the *Office* user behavior dataset to discover causal knowledge about the how different users use the *Office* software. The mining result is used to ameliorate the GUI layout of next version *Office* series software.

Software Engineer	Mobey Technology Co.,Ltd.	2008.9 - 2009.2 Chengdu, China
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- Redesigned current database schema according to the requirement and improve the efficiency of storage and query.
- Implemented the web page classifier for vertical search engine in daily life domain.

Research Assistant	Database and Knowledge Engineering Institute, Sichuan University	2007.3 - 2010.6 Chengdu, China
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- Participated in the project of Knowledge Discovery on National Birth Defects, which was supported by the 11-th Five-years Key Programs of NSF China. In charge of part of the design of storage architecture, classification module and the interface development.
- Participated in the project of Knowledge Discovery on Web Tag and Social Bookmark, which is one of the Innovative Youth Foundation Project of Sichuan Province. In charge of the web tag analysis for the famous social network site *del.icio.us*.

Patent

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1. **System and Method for Cloud Provisioning Accelerator**. With Charles Perng, Rong Chang, Hidayatullah Shaikh, Edward So, Tao Tao, Meir Laker. **Filed**.

Invited Talks

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1. **Towards Cloud Services Marketplace**. IBM Student Workshop for Frontiers of Cloud Computing, July 30-31, 2012.
 2. **Cloud Analytics for Capacity Planning and Instant VM Provisioning**. IBM Student Workshop for Frontiers of Cloud Computing, December 1-2, 2011.

Selected Honors and Awards

2010	Excellent Graduates for Master Students
2009	IBM Fellowship for excellent Chinese student (80 students all over China)
2009	Excellent award of 'IBM PureXML Database Engineer' contest (Student group)
2007 - 2009	Sichuan University Scholarship for Graduated Students
2007	Excellent Graduates for Undergraduates
2005	Excellent award of 'IBM CUP' final competition
2004 - 2007	Scholarship of Sichuan University for undergraduate students

Publications

1. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. **Self-adaptive Cloud Capacity Planning**. *International Conference on Service Computing (SCC)*, Hawaii, USA, 24th-29th June, 2012.
2. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. **Intelligent Cloud Capacity Management**. *IEEE/IFIP Network Operations and Management Symposium (NOMS)*, Hawaii, USA, 16th-20th April, 2012.
3. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. **ASAP: A Self-Adaptive Prediction System for Instant Cloud Resource Demand Provisioning**. *IEEE International Conference on Data Mining (ICDM)*, Vancouver, Canada, 11th-14th Decemeber, 2011.
4. **Yexi Jiang**, Chang-shing Perng, Tao Li. **Natural Event Summarization**. *ACM Conference on Information and Knowledge Management (CIKM)*, Glasgow, Scotland, UK, 24th-28th October, 2011.
5. Mingjie Tang, Weihang Wang, **Yexi Jiang**, Yuanchun Zhou, Jinyan Li, Peng Cui, Ying Liu and Baoping Yan. **Bird Bring Flues? Mining Frequent and High Weighted Cliques from Birds Migration Network**. *Database System for Advanced Application (DASFAA)*. Tsukuba, Japan, April 1-4, 2010.
6. Kaikuo Xu, Changjie Tang, Chuan Li, **Yexi Jiang**, Rong Tang. **An MDL Approach to Efficiently Discover Communities in Bipartite Network**. *Database System for Advanced Application (DASFAA)*. Tsukuba, Japan, April 1-4, 2010.
7. **Yexi Jiang**, Changjie Tang, Kaikuo Xu, Yu Chen, Jie Gong, Liang Tang. **CTSC: Core-Tag oriented Spectral Clustering Algorithm on Web2.0 Tags**. *The International Conference on Fuzzy Systems and Knowledge Discovery (FSKD)*. Tianjin, China, August 14-16, 2009.
8. **Yexi Jiang**, Changjie Tang, Kaikuo Xu, Lei Duan, Liang Tang, Jie Gong, Chuan Li. **Core-Tag Clustering for Web 2.0 based on Multi-Similarity Measurements**. *The International Workshop on DataBase and Information Retrieval & Aspects in Evaluating Holistic Quality of Ontology-based Information Retrieval (ApWeb Workshop)*. Suzhou, China, April 2-4, 2009.
9. Liang Tang, Changjie Tang, Lei Duan, Chuan Li, **Yexi Jiang**, Chunqiu Zeng. **MovStream: An efficient algorithm for monitoring clusters evolving in data streams**, *IEEE International Conference on Granular Computing*. HangZhou, China, 2008.
10. KaiKuo Xu, Chen Yu, **Yexi Jiang**, Rong Tang, Jie Gong, Chuan Li. **A Comparative Study of Correlation Measurements for Searching Similar Tags**. *International Conference on Advanced Data Mining and Applications. (ADMA)*. Chengdu, China, October 8-10, 2008.

Professional Services

External reviewer of International Conference on Data Mining (ICDM), 2011.
External reviewer of International Conference on World Wide Web (WWW), 2011.
External reviewer of SIAM Conference on Data Mining (SDM), 2011.
External reviewer of Web Intelligence and Intelligent Agent Technology (WI-IAT), 2011.
External reviewer of International Conference on Information and Knowledge Management (CIKM), 2012.
External reviewer of International Conference on Data Mining (ICDM), 2012. External reviewer of KDD Workshop on Cross Domain Knowledge Discovery in Web and Social Network Mining (KDD), 2012.
External reviewer of International Conference on Service Computing (SCC), 2012.
External reviewer of International Conference on Data Engineering (ICDE), 2013.

Programming Skills

Programming Language:

Proficiency in using *Java(JDK, Apache Open Source Libraries, GWT, etc)*, *C/C++(POSIX Multi-thread Programming, Socket Programming, STL, Boost, Protocol Buffer)*, *javascript(jQuery, Highcharts)*;
Familiar with *Python, PL/SQL*

Database: *MySQL, Postgres SQL, MS SQL Server, MongoDB*

Tools: *MapReduce Platform, Vim, Eclipse, Visual Studio (C/C++)*, \LaTeX , JDKs, Subversion, Tomcat.

Operating System: *Linux and Windows*