

# Yexi Jiang

## Resume

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## Summary

A passionate researcher with hands-on skills on data mining/machine learning algorithm research and development. More than 15 research paper published at recognized international conferences and journals. Extensive R&D experience at the world's leading companies and open source community like Facebook, IBM, Microsoft, and Apache Software Foundation.

## Publication

### Patents

1. *Cloud Provisioning Accelerator*. With Rong Chang, Mihwa Choi, Meir Laker, Chang-Shing Perng, Hidayatullah Shaikh, Edward So, Tao Tao. **US 20130139152 A1**.
2. *Interactive Acquisition of Remote Services*. With Rahul Akolkar, Thomas Chefalas, Jim Laredo, Chang-Shing Perng, Anca Sailer, Frank Schaffa, Alla Segal, Ignacio Silva-Lepe, Tao Tao, Yang Zhou. **Filed**.
3. *Complex Service Network Ranking and Clustering*. With Rahul Akolkar, Thomas Chefalas, Jim Laredo, Chang-Shing Perng, Anca Sailer, Frank Schaffa, Alla Segal, Ignacio Silva-Lepe, Tao Tao, Yang Zhou. **Filed**.

### Book Chapters

1. **Yexi Jiang** and Tao Li. Data mining application in cloud computing. In *Data Mining Where Theory Meets Practice*. Xiamen University Press, 2013, Page 38-64, **ISBN 9787561542941**.

### Referred Journals

2. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. "Cloud Analytics for Capacity Planning and Instant VM Provisioning", *IEEE Transactions on Network and Service Management (TNSM)*, 2013.
3. Liang Tang, Tao Li, **Yexi Jiang** Zhiyuan Chen. "Dynamic Query Forms for Database Queries", *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2013.

### Peer-Reviewed Conference Proceedings

4. **Yexi Jiang**, Chunqiu Zeng, Jian Xu, Tao Li. "Real time contextual collective anomaly detection over multiple data streams". *ACM SIGKDD Workshop on Outlier Detection & Description under Data Diversity (SIGKDD Workshop ODD<sup>2</sup>)*, 2014.
5. Liang Tang, **Yexi Jiang**, Lei Li, Tao Li. "Ensemble Contextual Bandits for Personalized Recommendation", *ACM Conference on Recommender Systems (RecSys)*, 2014.
6. **Yexi Jiang**, Chang-shing Perng, Tao Li. "META: Multi-resolution Framework for Event Summarization", *SDM International Conference on Data Mining (SDM)*, 2014.
7. Li Zheng, Chunqiu Zeng, Lei Li, **Yexi Jiang**, Wei Xue, Jingxuan Li, Chao Shen, Wubai Zhou, Hongtai Li, Liang Tang, Tao Li, Bing Duan, Ming Lei, Pengnian Wang. "Applying Data Mining Techniques to Address Critical Process Optimization Needs in Advanced Manufacturing", *ACM Conference on Knowledge Discovery and Data Mining SIGKDD*, 2014.

8. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. "Self-adaptive Cloud Capacity Planning". *International Conference on Service Computing (SCC)*, 2012.
9. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. "Intelligent Cloud Capacity Management". *IEEE Network Operations and Management Symposium (NOMS)*, 2012.
10. **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)*, 2011.
11. **Yexi Jiang**, Chang-shing Perng, Tao Li. "Natural Event Summarization". *ACM Conference on Information and Knowledge Management (CIKM)*, 2011.
12. 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.
13. 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.
14. **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.
15. **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.
16. Liang Tang, Changjie Tang, Lei Duan, **Yexi Jiang**. "SLICE: A Novel Method to Find Local Linear Correlations by Constructing Hyperplanes". *The Joint International Conferences on Asia-Pacific Web Conference and Web-Age Information Management (WAIM)*, 2009.
17. 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 (IEEE Grc)*. HangZhou, China, 2008.
18. 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.

## Peer-Reviewed Conference Demo Papers

19. Lei Li, Chao Shen, Long Wang, Li Zheng, **Yexi Jiang**, Liang Tang, Hongtai Li, Longhui Zhang and Chunqiu Zeng. "iMiner: Mining Inventory Data for Intelligent Management". *ACM Conference on Information and Knowledge Management (CIKM)*, 2014.
20. Chunqiu Zeng, **Yexi Jiang**, Li Zhen, Jingxuan Li, Lei Li, Hongtai Li, Chao Shen, Wubai Zhou, Tao Li, Bing Duan, Ming Lei, Pengnian Wang. "FIU-Miner: A Fast, Integrated, and User-Friendly System for Data Mining in Distributed Environment". *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD)*, 2013.

## Research Experience

Summer of 2014 **Summer Intern, Facebook Inc.**, Menlo Park, CA, USA.

- Designing and implementing the distributed machine learning module to improve the current News Feeds ranking algorithm leveraging the techniques of per-user modeling.

Summer of 2011, 2012, 2013 **Summer Intern, IBM T.J Watson Research Center**, New York, NY, USA.

- Participated in the design and implementation of an interactive service retrieval system called *Cloud Services Marketplace* to facilitate the cloud services acquisition.
- Designed and implemented a time-series prediction algorithm to help the cloud capacity planning and reduce the VM fulfillment time of IBM's Smart Cloud Enterprise from the perspective of resource prediction.
- Participated in the design and implementation of an intelligent tool that leverages data mining techniques to improve the efficiency for both the customers and service providers during server configuration.

03/2009-07/2009 **RSDE Intern, Microsoft Research**, Beijing, China.

- Designed and implemented a distributed frequent sequential mining algorithm to discover the users' popular operation sequences from the log of Office software to help the UI designers ameliorate the layout of the next version of Office.

## Academic

08/2010-Now **Research Assistant, Knowledge Discovery Research Group, FIU**, Miami, FL, USA.

- Participating in the design and implementation of FIU-Miner: A fast, integrated, and user-friendly system for data mining in distributed environment.
- Research topics about temporal data mining, large scale data mining, and their applications in system/service management.

## Professional Services

### Journal Reviewer:

- ACM Transactions on Knowledge Discovery from Data (TKDD);
- IEEE Transactions on Knowledge Discovery and Data Engineering (TKDE);
- Knowledge and Information System (KAIS);

### Program Committee Member:

- International Conference on Semantic Computing (ICSC), 2015.
- International Conference on Service Computing (SCC), 2014;

### External Reviewer:

- ACM SIGIR Conference on Research and Development on Information Retrieval, 2014;
- SIAM International Conference on Data Mining, 2014;
- AAAI Conference on Artificial Intelligence, 2014;
- International Conference on Data Engineering (ICDE), 2013;
- International Conference on Information and Knowledge Management (CIKM), 2012;
- International Conference on Data Mining (ICDM), 2012;
- KDD Workshop on Cross Domain Knowledge Discovery in Web and Social Network Mining (KDD), 2012;
- International Conference on Service Computing (SCC), 2012;

- International Conference on Data Mining (ICDM), 2011;
- International Conference on World Wide Web (WWW), 2011;
- SIAM International Conference on Data Mining (SDM), 2011;

## Professional Presentations

1. **Personalized News Feed Ranking.** Facebook Internship Final Presentation, Menlo Park, CA, July, 2014.
2. **META: Multi-resolution framework for event summarization.** SIAM Conference on Data Mining, Philadelphia, PA, May, 2014.
3. **A Cloud Services Marketplace for Cloud Service Acquisition,** FIU SCIS Seminar, Miami, FL, March, 2013.
4. **Towards Cloud Services Marketplace: Conversational Service Retrieval Methodology and System,** IBM Internship Final Presentation, Hawthorne, NY, August, 2012.
5. **Towards Cloud Services Marketplace.** IBM Student Workshop for Frontiers of Cloud Computing, Hawthorne, NY, July, 2012.
6. **Cloud Analytics for Capacity Planning and Instant VM Provisioning.** IBM Student Workshop for Frontiers of Cloud Computing, Hawthorne, NY, December, 2011.
7. **Cloud Analytics: Capacity Prediction and Instant Provisioning,** IBM Internship Final Presentation, Hawthorne, NY, August, 2011.

## Selected Honors and Awards

Member of Delta Epsilon Iota Academic Honor Society

Dissertation Year Fellowship

IBM Fellowship for excellent Chinese student (80 students all over China)

Excellent award of 'IBM PureXML Database Engineer' contest (Student group)

Excellent award of 'IBM CUP' final competition

## Education

2010-Now **Ph.D. in Computer Science,** *Florida International University*, Miami, FL,USA.

Research Area: Temporal Data Mining, Distributed Data Mining

2010 **B.S and M.S. in Computer Science,** *Sichuan University*, Chengdu, Sichuan,China.

Research Area: Data Mining