Yexi Jiang

Resume

11200 SW 8th. Street
Miami, 33199, FL
☏ 305-458-8476
✉ yexijiang@gmail.com
Homepage: `http://users.cis.fiu.edu/~yjian004`,
GitHub: `https://github.com/yxjiang`

Summary

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

Experience

Open Source Projects

Apache Software Foundation **Committer**, *Apache Hama*: a BSP computing framework on top of Hadoop.
- Working on the distributed machine learning package, including the design and implementation of distributed multilayer perceptron, linear regression, logistic regression, and auto-encoder. [**GitHub Link**]

Internships

Summer of 2014 **Intern**, *Facebook Inc.*, Menlo Park, CA, USA.
- Designed and implemented the pipeline as well as the related analytics tools for personalized News Feed ranking at Internet scale, making the recommendation more accurate for active users in Facebook.

Summer of 2011, 2012, 2013 **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. This prototype evolved into IBM 2013 Global Technology Outlook project "Scalable Services Ecosystem".
- 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 a tool that leverages data mining techniques to improve the efficiency for both the customers and service providers during server configuration.

03/2009-07/2009 **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.
- Designing and implementing a distributed monitoring system to conduct the continuous monitoring over the computer clusters. [**GitHub Link**]
- Participating in the design and implementation of FIU-Miner: An integrated and user-friendly data mining system under distributed environment. [**Web Page Link**]

Programming Skills

Languages	Java (proficient), Python (proficient), C/C++ (familiar), Scala (prior experience)	DB	Hive, MySQL, HDFS, MongoDB, PostgreSQL, DB2
Frameworks & Libries	Apache Hama, Apache Hadoop, Apache Hive, ActiveMQ, Storm	Tools	Git, SVN, Maven

Selected Publications (16 publications in total)

1. **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^2)**, 2014.

2. Liang Tang, **Yexi Jiang**, Lei Li, Tao Li. "Ensemble Contextual Bandits for Personalized Recommendation". *ACM Conference on Recommender Systems* **(RecSys)**, 2014.

3. **Yexi Jiang**, Chang-shing Perng, Tao Li. "META: Multi-resolution Framework for Event Summarization", *SDM International Conference on Data Mining* **(SDM)**, 2014.

4. Li Zheng, Chungqiu Zeng, Lei Li, **Yexi Jiang**, Wei Xue, Jingxuan Li, et al. "Applying Data Mining Techniques to Address Critical Process Optimization Needs in Advanced Manufacturing", *ACM SIGKDD Conference on Knowledge Discovery and Data Mining* **(SIGKDD)**, 2014.

5. **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.

6. Liang Tang, Tao Li, **Yexi Jiang** Zhiyuan Chen. "Dynamic Query Forms for Database Queries", *IEEE Transactions on Knowledge and Data Engineering* **(TKDE)**, 2013.

7. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. "Self-adaptive Cloud Capacity Planning". *International Conference on Service Computing* **(SCC)**, 2012.

8. **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.

9. **Yexi Jiang**, Chang-shing Perng, Tao Li. "Natural Event Summarization". *ACM Conference on Information and Knowledge Management* (**CIKM**), 2011.

Patents

1. *System and Method for Constructing Semantic Dialog Driven Services and Products Discovery*. With Alla Segal, Anca Sailer, Charles Perng, Frank Schaffa, Ignacio Silva-Lepe, Jim Laredo, Tom Chefalas, Tao Tao. **Filed**.

2. *System and Method for Complex Service Network Ranking and Clustering*. With Alla Segal, Anca Sailer, Charles Perng, Frank Schaffa, Ignacio Silva-Lepe, Jim Laredo, Tom Chefalas, Tao Tao, Yang Zhou. **Filed**.

3. *System and Method for Cloud Provisioning Accelerator*. With Charles Perng, Rong Chang, Hidayatullah Shaikh, Edward So, Tao Tao, Meir Laker. **US Patent 20,130,139,152**.

Education

2010-Now	**Ph.D. in Computer Science**, *Florida International University*, Miami, FL,USA.
	Research Area: Temporal Data Mining, Distributed Data Mining, GPA: 3.9
2010	**B.S and M.S. in Computer Science**, *Sichuan University*, Chengdu, Sichuan,China.
	Research Area: Data Mining, GPA: 3.2