XIAO QIN

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RESEARCH INTEREST

My broad research interests include data mining, big data analytics and information management.

EDUCATION

Ph.D. Candidate, Computer Science *2013 – Present*
Worcester Polytechnic Institute, Worcester, MA, USA.
Advisor: Dr. Elke A. Rundensteiner

Master of Science, Information Sciences *2011*
University of Pittsburgh, Pittsburgh, PA, USA.
Concentration: Information Retrieval/Online Question & Answering Systems.

Bachelor of Engineer, Computer Science & Technology *2009*
Harbin Institute of Technology, Harbin, Heilongjiang, China.
Thesis:"A Rule-based, Statistical Model for Chinese Archeology Term Extraction."

PUBLICATION

Xiao Qin, Tabassum Kakar, Susmitha Wunnava, Elke Rundensteiner and Lei Cao. *MARAS: Signaling Multi-Drug Adverse Reactions.* **KDD** '17.

Susmitha Wunnava, **Xiao Qin**, Tabassum Kakar, Vimig Socrates, Amber Wallace and Elke Rundensteiner. *Towards Transforming FDA Adverse Event Narratives into Actionable Structured Data for Improved Pharmacovigilance.* **SAC** '17, 777-782.

Xiao Qin, Ramoza Ahsan, Xika Lin, Elke Rundensteiner, and Matthew Ward. *Interactive Temporal Association Analytics.* **EDBT** '16, 197-208.

Xiao Qin, Zhongqiang Chen, Yuan Zhang and Shenhong Zhu. *Death Hoax Detection in Query Suggestions.* **Yahoo! Tech Pulse** '15.

Xiao Qin, Ramoza Ahsan, Xika Lin, Elke Rundensteiner, and Matthew Ward. *iPARAS: Incremental Construction of Parameter Space for Online Association Mining.* **BigMine** '14, JMLR 36 :149-165.

Amin Teymorian, **Xiao Qin**, and Ophir Frieder. *RESQ: Rank-Energy Selective Query Forwarding for Distributed Search Systems.* **CIKM** '12, 2579-2582.

Dongping Gao, Zhendong Niu, Lening Lv, Peng Jiang, **Xiao Qin**, and Jiahong Guo. *Chinese Unknown Word Recognition Based on Functional Applications of Type Theory.* **IITA** '08, 3 :498-502.

TALK/POSTER

- *Text Mining From Drug Surveillance Report Narratives.* The 5th Annual Community Engagement and Research Symposium. Umass Medical School, Worcester, MA. March 25, 2016.
- *Towards Pharmacovigilance Using Machine Learning To Identify Unknown Adverse Reactions Triggered By Drug-Drug Interaction.* The 5th Annual Community Engagement and Research Symposium. Umass Medical School, Worcester, MA. March 25, 2016.
- *Interactive Temporal Association Analytics.* Graduate Research Innovation Exchange (GRIE). WPI, Worcester, MA. Apr 11, 2016.
- *EPSTAR: An Evolving Parameter Space Framework for Interactive Temporal Association Rule Mining.* New England Database Summit (NEDB). MIT, Cambridge, MA. Jan 30, 2015.

- *Evolving Parameter Space Framework for Interactive Temporal Association Mining*. Graduate Research Innovation Exchange (GRIE). WPI, Worcester, MA. Dec 10, 2014.
- *iPARAS: Incremental Construction of Parameter Space for Online Association Mining*. International Workshop on Big Data, Streams and Heterogeneous Source Mining: Algorithms, Systems, Programming Models and Applications. KDD 2014, New York, NY. Aug 24, 2014.
- *IncPARAS: An Incremental Parameter Space Load Pipeline for Interactive Association Mining*. Graduate Research Innovation Exchange (GRIE). WPI, Worcester, MA. Mar 19, 2014.
- *IncPARAS: An Incremental Parameter Space Load Pipeline for Interactive Association Mining*. New England Database Summit (NEDB). MIT, Cambridge, MA. Jan 31, 2014.

EMPLOYMENT

Worcester Polytechnic Institute *8/2015 – Present*
Teaching Assistant *Worcester, MA*

- CS 2223: Algorithms
- CS 4432: Database Systems II
- CS 542: Database Management Systems

Yahoo! Search 5/2015 – 8/2015
Technical Intern III *Sunnyvale, CA*

· *Search Assist Team*, Manager : Shenhong Zhu, Mentor: Dr. Zhongqiang Chen
- Developed data mining algorithms and pipelines for filtering query suggestions with controlled contents.

Worcester Polytechnic Institute *8/2013 – 5/2015*
Research Assistant *Worcester, MA*

· *Database System Research Group (DSRG)* `http://davis.wpi.edu:8180/DSRG/`
Supervisor: Dr. Elke A. Rundensteiner
· *Data Visualization Lab (Xmdv)* `http://davis.wpi.edu/xmdv/`
Supervisor: Dr. Matthew O. Ward

Georgetown University *8/2011 – 5/2012*
Research Assistant *Washington, DC*

· *Information Retrieval Lab* `http://ir.cs.georgetown.edu/`
Supervisor: Dr. Nazli Goharian

University of Pittsburgh *1/2011 – 4/2011*
Research Assistant *Pittsburgh, PA*

· *Personalized Adaptive Web Systems Lab*
Supervisor: Dr. Peter Brusilovsky & Dr. Jung Sun Oh

SERVICE & OTHER ACTIVITY

External Reviewer

· **ICDE 16'** International Conference on Data Engineering.
· **VLDB 15'** International Conference on Very Large Data Bases.
· **SIGMOD 15',17'** International Conference on Management of Data.
· **EDBT 14',17'** International Conference on Extending Database Technology.

Conference Volunteer

· 28th IEEE International Conference on Data Engineering (ICDE 2012).

AWARDS

- Oak Ridge Institute for Science and Education (**ORISE**) Fellowship. 16' – 17', 17' – 18'.

- WPI Travel Award 14', 16', 17'.
- ACM SIGKDD Travel Award 17'.
- 3rd place in 2016 WPI Graduate Research and Innovation Exchange (GRIE) Poster Competition.
- Honorable mention in 2017 WPI GRIE Poster Competition.

TECHNICAL STRENGTHS

Computer Languages	Java, Python, C++, Ruby, Perl, C and SQL.
Databases	MySQL, Microsoft Access and SQL Server.
Tools	Hadoop, Pig, Oozie, Mahout, MatLab, Weka, Lingpipe, OpenNLP, Mallet, Lucene, Lemur , GNUPlot and LaTeX.