

Ruilin Liu

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Key Qualifications

- 5+ years' research and development experience in security area of database and data mining.
- Strong in Java, C/C++, and JavaScript programming languages.
- Strong leadership and communication skills.
- Initiative, independent and responsible.

Technical Skills

Experienced	C/C++, Java, L ^A T _E X, JavaScript, PHP, Shell Script, Vim, Eclipse, git, MySQL
Familiar	JSP, d3.js, gnuplot, PostgreSQL
Intermediate	jQuery, Node.js, MongoDB

Education

2008–Present	PhD in Computer Science, Stevens Institute of Technology, USA.
2003–2007	BSc in Computer Science, Outstanding Scholar Graduate, Southwest University of Science and Technology, China.

Professional Experience

2008–Present	Research Assistant at Stevens Institute of Technology, USA. Research Interests: <ul style="list-style-type: none">• Integrity verification of outsourced data mining computation• Privacy-preserving data publishing• XML databases Implemented all algorithms, systems in our papers. Presented my papers in several conferences including SDM '13, CIKM '10, ICDE '10, DASFAA '10, PASSAT '09.
2010–Present	Teaching Assistant at Stevens Institute of Technology, USA. Courses include: Automata and Computation, Algorithms (Algorithms Lab), Software Engineering, Data Mining, Database Management Systems II, Secure Systems, Cybersecurity Lab and Network Forensics.
2007–2008	Assistant Developer at Sichuan Research Center of Computer Application (SR-CCA), China. Developed several Information Management Systems using PHP/JSP, lead the development of two projects (Information Acquisition & Organization, Large-scale Data Management)

Publications

Journal

- 2013 • Xiuyuan Zheng, Yingying Chen, Wendy Hui Wang, Hongbo Liu, and **Ruilin Liu**. Neighborhood prediction based decentralized key management for mobile wireless networks. *Wireless Network*.
- 2011 • **Ruilin Liu**, Xiuyuan Zheng, Hongbo Liu, Wendy Hui Wang, and Yingying Chen. Metadata-guided evaluation of resource-constrained queries in content caching based wireless networks. *Wireless Network*, 17(8):1833–1850, 2011.
- Wendy Hui Wang and **Ruilin Liu**. Privacy-preserving publishing microdata with full functional dependencies. *Journal of Data & Knowledge Engineering (DKE)*, 70(3):249–268, 2011.

Conference

- 2014 • **Ruilin Liu**, Wendy Hui Wang, and Changhe Yuan. Result Integrity Verification of Outsourced Bayesian Network Structure Learning. In *Proceedings of the SIAM International Conference on Data Mining (SDM)*, 2014.
- **Ruilin Liu**, Wendy Hui Wang, and Flip Korn. iCoDA: Interactive Exploratory Data Completeness Analysis. In *Proceedings of the International Conference on Data Engineering (ICDE)*, 2014.
- 2013 • Boxiang Dong, **Ruilin Liu**, and Wendy Hui Wang. Integrity Verification of Outsourced Frequent Itemset Mining with Deterministic Guarantee. In *Proceedings of the IEEE International Conference on Data Mining (ICDM)*, 2013.
- Boxiang Dong, **Ruilin Liu**, and Wendy Hui Wang. Result Integrity Verification of Outsourced Frequent Itemset Mining. In *The 27th Annual IFIP WG 11.3 Working Conference on Data and Applications Security and Privacy*, 2013.
- **Ruilin Liu**, Wendy Hui Wang, Philippos Mordohai, and Hui Xiong. Integrity Verification of K-means Clustering Outsourced to Infrastructure as a Service (IaaS) Providers. In *Proceedings of the SIAM International Conference on Data Mining (SDM)*, 2013.
- 2012 • Flip Korn, **Ruilin Liu**, and Wendy Hui Wang. Understanding data completeness in network monitoring systems. In *Proceedings of the IEEE International Conference on Data Mining (ICDM)*, 2012.
- **Ruilin Liu**, Wendy Hui Wang, Anna Monreale, Dino Pedreschi, Fosca Giannotti, and Wenge Guo. *AUDIO*: An integrity auditing framework of outlier-mining-as-a-service systems. In *Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD)*, 2012.
- 2011 • Wendy Hui Wang, **Ruilin Liu**, Dimitri Theodoratos, and Xiaoying Wu. Efficient storage and temporal query evaluation in hierarchical data archiving systems. In *Proceedings of the 23rd Scientific and Statistical Database Management Conference (SSDBM)*, 2011.

- 2010
- Xiuyuan Zheng, Wendy Hui Wang, Yingying Chen, Hongbo, and **Ruilin Liu**. A decentralized key management scheme via neighborhood prediction in mobile wireless networks. In *Proceedings of the 7th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, 2010.
 - **Ruilin Liu**. Privacy-preserving data publishing. In *ICDE 2010 PhD Workshop*, 2010.
 - Angela Bonifati, Wendy Hui Wang, and **Ruilin Liu**. SP^{AC} : A distributed, peer-to-peer, secure and privacy-aware social space. In *Proceedings of the 19th International Conference on Information and Knowledge Management (CIKM), Demo track*, 2010.
 - Angela Bonifati, Wendy Hui Wang, and **Ruilin Liu**. Distributed and secure access control in p2p databases. In *Proceedings of the 24th Annual IFIP WG 11.3 Working Conference on Data and Applications Security (DBSec)*, 2010.
 - Wendy Hui Wang and **Ruilin Liu**. Privacy-preserving publishing data with full functional dependencies. In *Proceedings of the International Conference on Database Systems for Advanced Applications (DASFAA)*, 2010.
- 2009
- Wendy Hui Wang, **Ruilin Liu**, Xiuyuan Zheng, Yingying Chen, and Hongbo Liu. To do or not to do: Metadata-guided query evaluation in content caching networks. In *Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM)*, 2009.
 - **Ruilin Liu** and Wendy Hui Wang. Integrity verification of outsourced xml databases. In *Proceedings of the IEEE International Conference on Privacy, Security, Risk and Trust (PASSAT)*, 2009.
 - Wendy Hui Wang and **Ruilin Liu**. Hiding distinguished ones into crowd: Privacy-preserving publishing data with outliers. In *Proceedings of the International Conference on Extending Database Technology (EDBT)*, 2009.