

Xiaolan Wang

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Research Interests

My research interests include data and information management, with focus on data cleaning, data integration, and error diagnosis.

Education

UNIVERSITY OF MASSACHUSETTS: Amherst, MA, USA
9/2013 – present **Doctor of Philosophy in Computer Science**
 Advisor: Alexandra Meliou

ARIZONA STATE UNIVERSITY: Tempe, AZ, USA
9/2011 – 8/2013 **Master of Science in Computer Science**
 Thesis: Leveraging Metadata for Extracting Robust Multi-Variate Temporal Features
 Advisor: K. Selçuk Candan

SOUTH CHINA UNIVERSITY OF TECHNOLOGY: Guangzhou, China
9/2007 – 5/2011 **Bachelor of Science in Computer Science**

Honors

2015 Google US/Canada PhD Fellowship in Structured Data
2015 SIGMOD Travel Award
2013–2014 Outstanding Graduating MS Student Award (Arizona State University)

Publications

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- [1] X. Wang, A. Meliou, and E. Wu. Qfix: Diagnosing errors through query histories. In *Proceedings of the 2017 ACM SIGMOD International Conference on Management of Data*. (to appear)
 - [2] X. Wang, A. Meliou, and E. Wu. Qfix: Demonstrating error diagnosis in query histories. In *Proceedings of the 2016 International Conference on Management of Data*, pages 2177–2180, 2016
 - [3] X. Wang, M. Feng, Y. Wang, X. L. Dong, and A. Meliou. Error diagnosis and data profiling with Data X-Ray. *Proceedings of the VLDB Endowment*, 8(12):1984–1987, 2015
 - [4] X. Wang, X. L. Dong, and A. Meliou. Data X-Ray: A diagnostic tool for data errors. In *Proceedings of the 2015 ACM SIGMOD International Conference on Management of Data*, pages 1231–1245, 2015
 - [5] X. Wang, K. S. Candan, and M. L. Sapino. Leveraging metadata for identifying local, robust multi-variate temporal (RMT) features. In *IEEE 30th International Conference on Data Engineering*, pages 388–399, 2014

- [6] K. S. Candan, R. Rossini, X. Wang, and M. L. Sapino. sDTW: computing dtw distances using locally relevant constraints based on salient feature alignments. *Proceedings of the VLDB Endowment*, 5(11):1519–1530, 2012
- [7] K. S. Candan, R. Rossini, M. L. Sapino, and X. Wang. STFMap: query- and feature-driven visualization of large time series data sets. In *21st ACM International Conference on Information and Knowledge Management*, pages 2743–2745, 2012

Research Experience and Projects

UNIVERSITY OF MASSACHUSETTS: Amherst, MA, USA
 9/2013 – present *Topic: Error diagnosis in large-scale data systems and relational databases*
 Develop theoretical foundations and algorithms to diagnose or fix errors in data-intensive applications or relational databases. Design highly-parallelizable algorithms for massive scale data.

ARIZONA STATE UNIVERSITY: Tempe, AZ, USA
 2/2012 – 8/2013 *Topic: Salient feature extraction for time series*
 Extract salient structural features for uni-variate & multi-variate time series. Create feature based visualization for large time series datasets.

2/2012 – 6/2013 *Topic: File sharing system on CCNx (Project)*
 Develop a file sharing software (similar with dropbox) under CCNx.

9/2011 – 1/2012 *Topic: Image matching software (Project)*
 Develop an image-matching software that returns Top-k similar matches by user-provided example(s). Support large scale-data with multiple matching options.

Teaching Activities

Teaching Assistant	University of Massachusetts, Amherst	
.....	2013
CMPSCI 390DB	Practice and Applications of Data Management (undergraduate)	Fall
Teaching Assistant	Arizona State University	
.....	2012
CSE 408/598	Multimedia Information Systems (undergraduate)	Fall
CSE 515	Multimedia and Web Databases (graduate)	Fall

Professional Service

ICDE External reviewer for IEEE ICDE International Conference on Data Engineering, 2016.
 SIGMOD External reviewer for ACM SIGMOD International Conference on Management of Data, 2015.