

Aoqian Zhang

CONTACT INFORMATION	Cheriton School of Computer Science University of Waterloo Waterloo, Ontario, Canada, N2L 3G1	Phone: +1 (226)978 3798 Email: aoqian.zhang@uwaterloo.ca Web: https://zaqthss.github.io
RESEARCH INTERESTS	Data Cleaning, Data Imputation, Temporal Anomaly Detection etc.	
EDUCATION	Tsinghua University , School of Software Ph.D. in Software Engineering Thesis: <i>Research on Time Series Data Cleaning</i> (Supervisor: Prof. Jianmin Wang)	August 2013 - July 2018 with Graduation Award
	Tsinghua University , School of Software B.E. in Computer Software	August 2009 - July 2013 with Graduation Award
ACADEMIC EXPERIENCE	Cheriton School of Computer Science, University of Waterloo , Waterloo, ON, Canada Post Doctoral Fellows (<i>Advisor: Prof. Ihab Francis Ilyas</i>)	
	September 2018 - Now	
HONORS & AWARDS	Tsinghua Zi Jing Scholar (<i>for counsellor who do fantastic job in research</i>) First-class Scholarship (Glodon Scholarship), Tsinghua University Tsinghua Lin Feng Counsellor Prize (<i>highest honor to counsellors of undergraduates</i>) National Scholarship, Tsinghua University Excellent Communist Party Member of Master in Tsinghua Data transfer group champion, Solve for tomorrow, National Youth Science Innovation Experiment Competition	2018 2014, 2017 2016 2015 2015 2013
PUBLICATIONS	<p>[1] Aoqian Zhang, Shaoxu Song, Yu Sun, Jianmin Wang, "Learning Individual Models for Imputation", 35th IEEE International Conference on Data Engineering (ICDE), Macao, China, April 8-11, 2019, pp. 160-171.</p> <p>[2] Shaoxu Song, Yu Sun, Aoqian Zhang, Lei Chen, L. Jianmin Wang "Enriching Data Imputation under Similarity Rule Constraints". IEEE Transactions on Knowledge and Data Engineering (TKDE) (to appear).</p> <p>[3] Aoqian Zhang, Shaoxu Song, Jianmin Wang, Philip S. Yu, "Time Series Data Cleaning: From Anomaly Detection to Anomaly Repairing", Proceedings of VLDB (PVLDB), vol. 10, no. 10, pp. 1046-1057, June 2017.</p> <p>[4] Aoqian Zhang, Shaoxu Song, Jianmin Wang, "Sequential Data Cleaning: A Statistical Approach", ACM SIGMOD Conference (ACM SIGMOD), San Francisco, USA, June 26 - July 1, 2016, pp. 909-924.</p> <p>[5] Shaoxu Song, Aoqian Zhang, Lei Chen, Jianmin Wang, "Enriching Data Imputation with Extensive Similarity Neighbors", Proceedings of VLDB (PVLDB), vol. 8, no. 11, pp. 1286-1297, July 2015.</p> <p>[6] Shaoxu Song, Aoqian Zhang, Jianmin Wang, Philip S. Yu, "SCREEN: Stream Data Cleaning under Speed Constraints", ACM SIGMOD Conference (ACM SIGMOD), Melbourne, VIC, Australia, May 31 - June 4, 2015, pp. 827-841.</p>	
PATENTS	Issued Chinese Patents (2 patents in pending) [P1] Jianmin Wang, Shaoxu Song, Aoqian Zhang , Correction method for global positioning system data based on speed constraint, ZL201711405160.4, issued	

PROJECTS	TsQaulity. A project develops data quality tools for large scale time series data, including data profiling, anomaly detection and data repairing. It is one of the projects in the National Engineering Laboratory for Big Data Software(NEL-BDS) .
INTERNSHIP	Research Intern, Data Engineering Group in K2data, Beijing, China (October 2017 - February 2018)
PROFESSIONAL SERVICES	Reviewer for ACM Journal of Data and Information Quality
MENTORSHIP	<p>I am fortunate to work with a great group of graduate and undergraduate students during my PhD time at Tsinghua University:</p> <p>Undergraduate Mentorship</p> <ul style="list-style-type: none">- 2016.07-2017.05: Director of the Student Affairs Office in School of Software, Tsinghua University- 2015.01-2016.07: Vice Director of the Student Affairs Office in School of Software, Tsinghua University- 2012.08-2015.07: Counsellor of over 60 undergraduates of class 2012 in School of Software, Tsinghua University (won over 5 Excellent Collective Awards and the Lin Feng Counsellor Award)