Aoqian Zhang

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RESEARCH INTERESTS

Data Cleaning, Data Imputation, Temporal Anomaly Detection etc.

EDUCATION

Tsinghua University, School of Software   August 2013 - July 2018
Ph.D. in Software Engineering   with **Graduation Award**
Thesis: *Research on Time Series Data Cleaning* (Supervisor: Prof. Jianmin Wang)

Tsinghua University, School of Software   August 2009 - July 2013
B.E. in Computer Software   with **Graduation Award**

ACADEMIC EXPERIENCE

Cheriton School of Computer Science, University of Waterloo, Waterloo, ON, Canada
Post Doctoral Fellows (*Advisor: Prof. Ihab Francis Ilyas*)

HONORS & AWARDS

Tsinghua Zi Jing Scholar (*for counsellor who do fantastic job in research*)	2018
First-class Scholarship (Glodon Scholarship), Tsinghua University	2014,2017
Tsinghua Lin Feng Counsellor Prize (*highest honor to counsellors of undergraduates*)	2016
National Scholarship, Tsinghua University	2015
Excellent Communist Party Member of Master in Tsinghua	2015
Data transfer group champion, Solve for tomorrow, National Youth Science Innovation Experiment Competition	2013

PUBLICATIONS

[1] **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.

[2] 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.

[3] **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.

[4] 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.

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 - now)

Mentorship   I am fortunate to work with a great group of graduate and undergraduate students during my PhD time at Tsinghua University:

Undergraduate Mentorship
- 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**