

Xuqiang Fang

EIT Digital Master Student

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Education

- 2010–2014 **BS Automation Engineering**, *East China University of Science and Technology*, Shanghai, China, *GPA 89.64/100, Ranking 6/214*.
- 2014–2016 **PhD Control Theory and Engineering**, *Shanghai Jiaotong University*, Shanghai, China.
Quitted the study after one and a half years
- 2016–2017 **MS Computer Science and Engineering**, *Eindhoven University of Technology*, Eindhoven, the Netherlands.
EIT Digital Master Program, Data Science Track, Entry University
- 2017–2018 **MS Computer Science and Engineering**, *Technical University of Berlin*, Berlin, Germany.
EIT Digital Master Program, Data Science Track, Exit University

Working Experience

- Oct 2013 **Internship**, *Siemens Industrial Automation Ltd. Shanghai*, Shanghai.
- April 2014 Siemens PCS7 Control System control loop testing, this work involves the testing between analog signals and digital signals, to make sure the two signals correspond with each other. Chemical process diagram development, this work involves the development of monitoring interface for a beer brewing process.

Professional Skills

- Programming C/C++, Java, Python, R, MATLAB, JavaScript
- IDE Eclipse, NetBeans, VisualStudio, PyCharm, IntelliJ IDEA, Xcode, RStudio
- Database MySQL
- Big Data Hadoop, Flink, Spark
- Others Linux, Vim, Git, Latex, Tableau

Courses and Projects

- Graduate Courses **Mathematical**, Basic Mathematical Statistics, Matrix Theory, Linear Systems, Numerical Methods for Partial Differential Equation, Applied Functional Analysis, Applied Statistics, Probability and Stochastics, Statistical Learning Theory.

Technical, Advanced Algorithms, Geometric Algorithms, Geographic Algorithms, Foundations of Data Mining, Web Information Retrieval and Data Mining, Time Series Analysis, Database Technology.

Projects **Hotspot Detection on New York Cab Records.**

This project is done within course Geographic Algorithms, it involves defining a pattern within the dataset and then identifies the pattern. In this case, we defined a hotspot being many taxis staying in a region for a long time. We processed the csv file and identified the hostpots in Google Maps

Geometric Spanners amidst Obstacles.

This project is done within course Geometric Algorithms. In this project we performed the comparison between two t-spanner amidst obstacles algorithms, the t-spanner greedy algorithm and well-separated pair decomposition. The two algorithms are combined with a visibility graph algorithm, implemented to avoid edges that crosses the obstacles.

Honors and Awards

- May, 2016 EIT Digital Master Program Scholarship (Half tuition waiver and monthly allowance)
- July, 2014 East China University of Science and Technology, Honors Graduate
- Aug, 2013 National Smart Car Racing Competition, National Second Prize
- Sep, 2012 Grade Scholarship in East China University of Science and Technology, Special Class(Highest Class)
- Nov, 2011 E+H Scholarship in East China University of Science and Technology
- Sep, 2011 Grade Scholarship in East China University of Science and Technology, Special Class(Highest Class)

Language

- Chinese **Native**
- English **Full professional proficiency**
- Dutch **Intermediate Level**
- German **Elementary**

Personal Statement

I went directly into a PhD program after my bachelor, after spending one and a half years studying at the control theory and engineering field, I didn't see myself any future in it. So I decided to quit and dive into Data Science. I chose Data Science because I liked to combine theory and practice and since I had built a solid mathematical background in graduate studies, I would prefer using these skills to solve real problems. I have also gained much training in abstraction, which I think is a very useful skill when it comes to understand computer science terms. I am also good at communication but not so good at management. So I consider myself as a person with solid learning ability and strong determinations, reliable team member but weak team leader.