

Yilun (Tom) Zhang

MMath Statistics, University of Waterloo

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SUMMARY OF QUALIFICATIONS

- 2+ years experience in conducting quantitative research, data analysis and visualization
- Strong ability and passion to learn new knowledge and apply them to work and study
- Extensive knowledge and experience in Excel, Matlab, Python, R, SAS and Spark
- Proficient in \LaTeX , MySQL and Racket-language
- Basic understanding of Bash-scripting, HTML, Java, C and C++

PROFESSIONAL EXPERIENCE

- Sep 2015 - Dec 2015 **Undergraduate Research Assistant**, *University of Waterloo*, Waterloo, ON, Canada.
- May 2015 - Aug 2015 **Data Science Intern**, *Athos*, Redwood City, CA, USA.
- Assessed existing algorithm, then individually invented, implemented and tested a new algorithm to calculate the Athos Score
 - Implemented a machine learning algorithm to better predict lower body heart rate confidence
 - Wrote Python and MySQL scripts to automate data cleaning, transfer and storage processes
 - Created sensor signal and other data visualizations for problem detecting and algorithm improvement
- Sep 2014 - Dec 2014 **Insight Analyst**, *MD Financial Management*, Ottawa, ON, Canada.
- Conducted statistical analysis on a product pre-launch survey; designed and implemented predictive models to identify future product purchasers and a visualization application for the survey data using R with Shiny
 - Mined customer and survey databases to explore gender differences in investment behaviour
- Jan 2014 - May 2014 **Bioinformatics Data Analyst**, *Princess Margaret Hospital, UHN*, Toronto, ON, Canada.
- Implemented an experiment database using Python with SQLite3 which greatly improved efficiency for data standardization and sharing
 - Automated experimental data storage to portable SQLite3 database using Python and Excel
 - Applied mixed effect models and forecasting on a set of therapeutic experiment data using R; wrote a statistical report in \LaTeX
- Feb 2013 - Aug 2013 **Business Research Assistant**, *Institute of System Science, NUS*, Singapore.
- Analyzed customer survey data using SPSS, R and Excel and produced visualization plots for presentation and final report to clients
 - Mined Singapore's transportation data for commuters' travel pattern analysis

EDUCATION

- Sep 2016 - Aug 2017 **Master of Mathematics - Statistics**, *University of Waterloo*, Waterloo, ON, Canada.
- Sep 2011 - Apr 2016 **Bachelor of Mathematics - Honours Statistics and Computational Mathematics**, *University of Waterloo*, Waterloo, ON, Canada.
- Sep 2014 - Aug 2015 **Coursera & edX, Online Courses**, Remotely.
- Data Science Specialization | Machine Learning | Model Thinking | Data Visualization (Coursera)
 - Introduction to Big Data with Apache Spark | Scalable Machine Learning (edX)

OTHER EXPERIENCE

- Aug 2015 **1st Place, 6sense Data Hack**, *6sense*, San Francisco, CA, USA.
- May 2015 - Dec 2015 **Active Kaggler**, *Kaggle*, Remotely.
- Feb 2015 **1st Place, Capital One Data Mining Cup**, *University of Waterloo*, ON, Canada.
- Jan 2015 - Apr 2015 **Undergraduate Calculus Marker/Tutor**, *University of Waterloo*, ON, Canada.
- Sep 2011 - Apr 2015 **Japanese Course TA**, *Renison College, University of Waterloo*, ON, Canada.
- Aug 2014 - Oct 2014 **Remote Research Assistant**, *AidGrade*, Remotely.