Yilun (Tom) Zhang

448 Drake Circle Waterloo, ON N2T 1L1

Statistics & Computational Mathematics University of Waterloo

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 Research Intern, Athos, Redwood City, CA, USA.

- Assessed existing algorithm, then individually invented, implemented and tested a new algorithm to calculate the Athos Score
- o 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
- o 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 databases and survey data-sets 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 2011 - Apr 2016 (Expected) Bachelor of Mathematics - Honours Statistics and Computational Mathematics, *University of Waterloo*, Waterloo, ON, Canada.

o 3 times Upper Year Computational Mathematics Scholarship recipient

Sep 2014 - Now

Coursera & edX, Online Courses, Remotely.

- o 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 - Now 1x top 10% and 3x top 25% in Kaggle Data Science Competition, 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.