

TIANCHENG ZHANG

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EDUCATION

National University of Singapore

Aug 2016 – Dec 2017

- Master of Statistics and Applied Probability
- Relevant Courseworks: Linear and Generalized Linear Models, Multivariate and Categorical Data Analysis
Applied Data Mining, Spatial Statistics, Advanced Statistical Methods in Finance

Nanyang Technological University

Aug 2012 – May 2016

- Bachelor of Mechanical Engineering, GPA: 4.1/5.0
- Awards: Senior Middle 3 (SM3) Scholarship Awarded by Ministry of Education

ACADEMIC PROJECTS

National University of Singapore, Statistics Department

Aug 2016 – Feb 2017

- Applied generalized regression methods, principal component regression method and residual analysis in building influential gene selection models with R
- Investigated credit risk modeling in loan market and employed machine learning algorithms to classify and optimize peer lending risk and to predict the chance of a loan being paid off on time with 78% precision
- Analyzed 17-years of month-by-month housing price in Hong Kong by building GSADF model to detect multiple bubbles and to locate explosive periods. Succeeded in verifying HK's market from 1999 to 2016

WORK EXPERIENCE

American President Lines, Marketing Data Analyst

Sep 2016 – Jan 2017

- Constructed automation system in python to transform raw data into comprehensible analysis that identifies trends and performance insights of big four shipping alliances in the world, and to streamline company operations to increase efficiency by 90%
- Developed customer segmentation algorithm in R which scored sales leads and lead to increased market share
- Analyzed, interpreted and converted statistics into Tableau to visualize marketing performance metrics
- Created and presented executive dashboards and scorecards to show market share and trends in the data using Excel and VBA-Macros

Philips Electronics, Research Assistant

Aug 2014 – Jan 2015

- Visualized geographical thermal distribution of product surface to detect abnormal temperature value
- Applied numerical and analytical techniques (FDM Model) to solve heat conduction differential equations
- Proposed and implemented quality assurance planning and process improvements
- Collaborated closely with conceptual design team to develop and revise product prototype

CO- CURRICULAR ACTIVITIES

International Maritime RobotX Challenge

May 2015 – Aug 2016

- Developed numerical control system for propelling machinery, lifting driving speed by up to 250%
- Reduced application testing time 30% by automating shorter testing phases for off cycle projects

Vice President of NTU Chinese Drama Production

Aug 2013 – Feb 2014

- Led a team of 40 committee members in 1200 audience performance held in Singapore NAFA
- Analyzed every data point of an advertising campaign, reducing propaganda expenses by 50%
- Produced a series of promotional videos which then received more than 3,0000 hits on YouTube and Weibo

Engineering Innovation and Design Project

Oct 2013 – May 2014

- Designed a thermally cooled duvet reduced dorm energy cost by up to 90%
- Recipient of First Class Award among 100+ participating teams

Hacienda Volunteering Program in Australia

Dec 2013 – Jan 2014

- Designed and maintained website and other marketing materials to improve adoption

SKILLS

- **Programming language:** Python, R, Visual Basic(VBA), SQL [Oracle, Teradata]
- **Math/Statistics:** Probabilities, Partial Differential Equations, Linear Algebra, Regression Analysis
- **Languages:** Fluent in English and Mandarin (both spoken and written)
- **Interest:** Enjoy studying machine learning algorithms and love to join Kaggle competitions