

Mingxuan Fu

Ridge View Residences

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Bachelor of Science Honours: Major in Statistics

Singapore

August 2013 – June 2017

- *Academic:* Upper Second Class Honours
- *Specialisation:* Finance and Business Statistics
- *Honours:* Science & Technology Undergraduate Scholarship (2013 – 2017)
- *Coursework:* Accounting, Statistical Methods in Finance, Econometrics, Statistical Model in Actuarial Science, Mathematical Finance, Python Programming, Data Mining

FINAL YEAR PROJECT

Monitoring Surgeons' Performance

- Analysed the risk-adjusted CUSUM chart method of monitoring surgeons and explored a flaw in the null hypothesis
- Proposed a solution to the flaw by estimating the parameters more precisely and then redefine the null hypothesis, which enhanced the accuracy of monitoring each surgeon by **30%**

WORK EXPERIENCE

SCOR GLOBAL REINSURANCE

Singapore

Research Actuary Intern – Critical Illness R&D Centre

18th August 2016 – Present

- Developed the tool for testing sensitivity of trend and level in order to **quantify the effects** of different assumptions on a portfolio level using VBA
- Proposed the Best Estimate and trend for Korean cancer by researching historical and other Asian countries' data
- Extrapolated the incident rates for old ages from 82 to 100 and designed the templates for different countries using Excel

DBS BANK

Singapore

Data Analytics Intern – Group Audit Department

16th May 2016 – 16th August 2016

- Engaged in the Early Risk Identification and Continuous Assessment (ERICA) project. Used machine learning and text analytics techniques to process the unstructured data and developed predictive models **with the accuracy of 87%**
- Worked on the Branch PIITSTOP project. Improved the risk detection model on 19 Indonesia DBS branches and successfully enhanced the accuracy from **58% to 81%**
- Initiated a trending topics model by applying text analytics and demonstrated the results with graphs, like Google Trends
- Modified VBA and R scripts of cleaning and extracting data and increased the efficiency by **500%**

A*STAR INSTITUTE

Singapore

Research Assistant – Psychographic Modeling in Social Media

March 2016

- Analysed the outcome of players and made strategies to model Experience-Weighted Attraction (EWA) on the dataset
- Increased the accuracy of the EWA model by **38%** through classifying the learning ability of players into different classes
- Tuned the EWA model by running 1000 possible sets of parameters for each class and selected the best set with the highest likelihood. Further improved the performance of EWA model by **4%**

HENGTAI SECURITIES

Beijing, China

Trading Intern – Asset Management Department

11th May 2015 – 31st July 2015

- Performed the technical and fundamental analysis on the stocks. Assisted in trading 70,000 shares of HuaGong Tech (000988) and earned **36.8%** profit in two weeks
- Developed a signal model for traders based on the correlation between the price volatility percentage and volume
- Analysed the security K-line and Commodity Channel Index (CCI). Drew significant lines on the plots to supervise the trend

CO-CURRICULAR ACTIVITIES

NUS CROSSTALK, *Stage Supervisor*

August 2014 – March 2016

- Organized the crosstalk performances by splitting the tasks to team members, setting up the venue and arranging the actors

NUS CHINESE CALLIGRAPHY SOCIETY, *Organization Department*

August 2013 – March 2015

- Organized the calligraphy competition for around 1000 Singaporean children from primary schools and examined their calligraphy works

ADDITIONAL INFORMATION

- Proficient in Excel, VBA, R, Python, C, SAS, SQL, text analytics and machine learning
- Language skills: Chinese Mandarin (Native), English (Fluent)
- Interests: Billiard Ball, Basketball, Calligraphy and Swimming