JI QI

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EDUCATION

Yale University, New Haven September, 2020 - June, 2022
M.S. degree in Biostatistics

Sun Yat-sen University (SYSU), Guangzhou September, 2016 - June, 2020
B.S. degree in Mathematics and Applied Mathematics [3.9/4.0 GPA]; Minor: History [4.0/4.0 GPA]
Awards*:* ***SYSU Merit Student Scholarship***, 2017, 2018, and 2019; ***Bronze Medal***, Kaggle Competition, 2019; ***SYSU Zhong You Chu Scholarship***, 2018; ***First Place,* RET Technology Innovation Contest**, 2018; ***Meritorious Winner* (Top 9%)**, Mathematical Contest in Modeling (MCM), 2018 ; ***SYSU Excellent Volunteer***, 2017;

University of California, Berkeley January, 2019 - May, 2019
Exchange Student [3.8/4.0 GPA]

TECHNICAL AND LINGUISTIC SKILLS

Programming Languages: MS Office, SAS, MATLAB, Python, Mathematica, C++, VBA, Pascal
Languages: Native in Mandarin and Cantonese with advanced English language facility (TOEFL: 108, GRE: 327)

PROFESSIONAL EXPERIENCE

Ping An Insurance Ltd, **Guangzhou**
Vehicle Insurance Actuary Intern July, 2018 - September, 2018

- Analyzed policyholder information using *C4.5 decision tree* in SAS Enterprise Miner to assess policyholders' risk levels and then formulated appropriate pricing strategies using *generalized linear model* in SAS;
- Used *self-organizing feature map* to categorize policyholders; then determined those policyholders most likely to renew their vehicle insurance using *principal component analysis* and *logistic regression*;
- Organized a client dataset involving 1.37 million entries with more than 100 dimensions in SAS.

International Institute of Green Finance, CUFE, Beijing
Research Assistant January, 2018 - February, 2018

- Used *logistic regression* and *OLS regression* to assess the correlation between ESG(Environmental, Social and Governance) performance and bond default rates after examining 305 default bonds and 928 downgrade bonds among 19,244 samples;
- Optimized the default warning model (with 89.5% accuracy) subsequent to the integration of ESG variables;
- Wrote and edited scripts in Excel VBA to collect and organize data concerning more than 4,000 listed companies for entry into the CUFE ESG database, and to facilitate automated generation of daily reports.

QUANTITATIVE RESEARCH

Predicting Molecular Properties
Kaggle Featured Prediction Competition August, 2019

- Developed an accurate model for the prediction of interactions between atoms; ranked in top 6%;
- Visualized variables from 4.66 million training samples using Pandas, Scipy and Matplotlib;
- Implemented feature engineering to derive variables pertaining to distances;
- Predicted scalar couplings using neural network and tree-based models including LightGbm and XGBoost;

A corpus-based Comparison of "Projection" Features between Chinese and US Undergraduate Students
Student Innovation and Entrepreneurship Training Program [Supervised by Prof. Lei Zeng] June, 2019 - Present

- Constructed corpus in MAXQDA to conduct a quantitative analysis on academic citation features in degree dissertations of Chinese and US undergraduates based on ANOVA and *Pearson correlation analysis;*

EXTRACURRICULAR ACTIVITIES

Coach, SYSU School of Mathematics September, 2018 - January, 2019
Deputy Head, SYSU Student Society Academics Department September, 2017 - June, 2018
Head of Publicity Department, SYSU Allshare Volunteers Association September, 2017 - June, 2018
Volunteer, Guangdong Shaoxi Leprosy Convalescent Workcamp August, 2017 - January, 2018