Kindle Zhang

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EDUCATION

Beijing Normal University (BNU) **Beijing, China**

Bachelor of Economics in Finance 09/2015-06/2019

- ✧ Relevant coursework: Statistics, Linear Algebra, Probability and Mathematical Statistics, Calculus I&II, Programming Design (JAVA), Information Processing Foundation

Columbia University in the City of New York **New York, America**

Master of Biostatistics 09/2023-present

- ✧ Relevant coursework: Biostatistics method, Data science, Inference, Survival analysis, Advanced computing in statistics, Longitudinal analysis, Randomized Clinical Trial, SQL (GPA 4.1+)

WORK EXPERIENCE

Colorado State University **Beijing, China**

Research Assistant working remotely 03/2020-03/2022

- ✧ Performed data collection, documentation, coding, prepared charts and graphs, and completed data analyses
- ✧ Assisted in questionnaire design and test to support research, and coordinated material organization
- ✧ Participated in writing reports, summarizing the research process, interpreting findings and providing biostatistical consultations

QY Research(using python and Excel) **Beijing, China**

Intern of Catalogue Group 03/2019-07/2019

- ✧ Implemented catalog translation and summarization based on VBA programming in Excel, and improved documentation by using Python
- ✧ Highlighted key information when reviewing financial statements and provided suggestions on relevant issues

Creek Wood Investment **Beijing, China**

Intern of Blue Lotus Research Institute 02/2018-04/2018

- ✧ Conducted research on various industries (eg. short video, game, automobile) and drafted research reports.
- ✧ Optimized the formulas of the financial tables using Bloomberg and improved work efficiency
- ✧ Searched and summarized global financial news, and discussed with the product manager for strategy making

PROJECT

Alzheimer's disease and health data analysis

- ✧ Developed a data-set containing information about patients' ages and intercerebral indices
- ✧ Performed different statistical analysis methods to explore the correlations of various factors leading to the disease, and compared the accuracy to write the report

A Bayesian Longitudinal Analysis of the Effect on Systolic Blood Pressure *Practicum*

- ✧ Use Bayesian methods, implemented via MCMC or variational inference, to quantify uncertainty, account for complex random effects, and handle missing data.
- ✧ GLMM will provide a frequentist benchmark for comparison, focusing on fixed and random effects estimation.

Pricing efficiency and influencing factors in the Treasury bond futures market *Graduation thesis*

- ✧ Conducted time series analysis based on the data about the consecutive closing price of two-year treasury bond futures as well as the five-year ones and ten-year ones launched by China financial futures exchange to study the price relation between Treasury bond futures market and spot market
- ✧ Calculated the theoretical prices of several Treasury futures contracts by looking for the cheapest delivery of some currently traded Treasury futures contracts, conversion factors and accrued interest
- ✧ Analyzed the specific factors causing the actual price of Treasury futures contract to deviate from the theoretical price and how they would affect, combining micro variables and macro variables
- ✧ Concluded that trading volume and risk-free interest rate mainly affected the deviation between the actual and theoretical prices of Treasury bond futures

Data science project: Corruption Index Analyzing(using R) *Course project*

- ✧ Collected data and did tidy cleaning as the basis for analyzing CPI.
- ✧ Built models through linear regression and the linear plots for each regression model.
- ✧ Made a website and used the shiny app to make an exploratory analysis and data visualization.
- ✧ The final project address: https://kindlezhang.github.io/p8105_final_project/

Advanced computing in statistics project: Single-Cell Gene Expressions(using R) *Course project*

- ✧ In this project, I started with PCA for dimensional deduction.
- ✧ Then I modified Gaussian-mixture model with EM algorithm to cluster the cells.
- ✧ Finally, I conducted SVM-RFE for the selection of signature genes. Collected and visualized the financial data related to aviation enterprise in China and the US, futures contracts in the stock market, jet fuel and crude oil price trends, etc.
- ✧ Above all, I selected 5 as our optimal cluster number based on AIC and BIC values. I observed different signature genes type and different number of signature genes in each cluster.

EXTRA CURRICULAR ACTIVITY

Columbia University Mailman Public School *Applied Regression Teaching Assistant* 2024

- ✧ Assisted faculty with the instruction of courses
- ✧ Assist the professor in completing course tasks and answering students' questions using Stata skills

BNU Student Club Association *Head of Business Cooperation Department* 2016-2018

- ✧ Organized 50+ student events and negotiated with sponsors for financial support (eg. 4000 CNY offered by China Unicom)

BNU Undergraduate Office *Assistant* 2016

- ✧ Planned campus activities (eg. singing competition, knowledge contest), and arranged activity process, and carried out online publicity

OTHER INFORMATION

Computer skills: R, Python, SAS(pass basic exam), SQL, STATA, Excel (VBA), JAVA, Latex, shiny
Github: https://github.com/kindlezhang
Honor & Awards:

- ✧ 3rd Class Scholarship in 3 academic years 2016-2018
- ✧ Honorable Mention in the 2018 Interdisciplinary Contest in Modeling 2018
- ✧ 3rd Prize in CUMCM (China Undergraduate Mathematical Contest in Modeling) 2018
- ✧ Winner of BNU Undergraduate Research Fund Project 2017-2018
- ✧ 3rd Prize in BNU Summer Practice 2017
- ✧ BNU Excellent Voluntary Service in the 2015-2016 Academic Year 2016