

# Qing Yu

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## HIGHLIGHTS

- Fluent in **English, & Chinese**.
- Proficient in **R, Python, SQL, Stata, Latex, Machine Learning Methods, Data Mining and Analysis, etc.**
- Academically interested in **Survival Analysis, Longitudinal Data Analysis, Statistical Learning, Cancer Research, etc.**

## EDUCATION

**Nanyang Technological University**  
Master of Science in Analytics

**Nanyang, Singapore**  
August 2023—June 2024

**Beijing Normal University**  
Bachelor of Science in Statistics | GPA: 3.46/4.0

**Beijing, China**  
September 2019 – July 2023

## PUBLICATION

1. **Qing, Y.** (2022) *“Analysis of PM2.5 Influencing Factors Based on Various Statistical Methods—A Case Study of Beijing in 2021”* Atlantis Highlights in Computer Sciences (ICBDIE 2022) ISN: 2589-4900

## PROJECT EXPERIENCE

**“Performance Evaluation of China's Commercial Banks—Analysis Based on Multiple Comprehensive Evaluation Methods”**  
*Graduation Thesis* January 2023 – June 2023

- Conducted a study aimed to assess and rank the performance of mainstream commercial banks in China whilst also analyzing and comparing various statistical integrated evaluation methods.
- Analyzed performance differences, particularly operational efficiency, using data envelopment analysis and the Malmquist index method.

**“Analysis of PM2.5 Influencing Factors Based on Various Statistical Methods—A Case Study of Beijing in 2021”**  
*Project Head* February 2022 – December 2022

- Conducted a study to address Beijing's PM2.5 pollution issue by comparing various statistical methods to identify influential factors on PM2.5 levels, using data from 2021.
- Utilized multiple statistical methods to model PM2.5 concentrations against other pollutants, including GLS/Ridge/Lasso Regression, PCA, and Random Forest.
- Determined random forest (RF) as the most accurate statistical method for predicting PM2.5 concentrations and discovered that carbon monoxide (CO) concentration had a significant impact on PM2.5 levels in Beijing.

**“Applications and Practice of Data Sciences”, A Training Project by Professor Shlomo Ta'asan from Carnegie Mellon University**  
*Participant* January 2022 – March 2022

- Gained a comprehensive understanding of Python-based black box methods, including Support Vector Machines and Neural Networks.
- Learned association rule algorithms (Apriori & FP Growth) with market basket analysis, practiced Kaggle data, and presented the results at the closing presentation of the program.

**“Research on the Construction of Online Teaching Quality Assessment Index for Compulsory Professional Courses in Colleges and Universities”**  
*Team Leader* April 2020 – April 2021

- Conducted research on the construction of an Online Teaching Quality Evaluation Index for Compulsory Courses in Colleges and Universities aimed at addressing the challenge of evaluating the quality of online teaching during the 2020 epidemic.
- Reviewed 100+ Chinese and 50 English articles, utilized SPSS for factor analyses, designed questionnaires, and drew conclusions on psychological and educational measurement methods.

**“A Study on Disaster Zoning”**  
*Team Member* December 2020 – February 2021

- Conducted a study aimed at applying cluster analysis and its visualization on natural disaster data in China for the year 2020.
- Utilized R programming to implement PCA and Andrews curve visualization for cluster analysis.

## WORK EXPERIENCE

**JD.com, Beijing Office**  
*Data Analyst*

September 2022 – December 2022

- Utilized SQL to regularly extract data from databases, update daily sales data, and monitor anomalies.
- Established user portraits of customers in various industries dating from January to June through more than 30 statistical charts and 1.6 million pieces of data.
- Performed key customer repurchase analysis using Tableau and predicted future sales through the ARMA model.

**Network Center, Beijing Public Transport Holding Group Co., Ltd.**

January 2022 – March 2022

- Beijing Shijingshan District Statistics Bureau

July 2021 – August 2021

- Conducted population and economic analyses, collaborated in integrating pertinent literature, and submitted findings for review by scientific researchers.
- Played a crucial role in the proofreading of bidding documents and the creation of informative data statistics charts.
- Contributed actively to the Statistical Yearbook project by assisting in document preparation and diligently entering industrial data.

**Culture and Media Department, Student Art Troupe, Beijing Normal University**

March 2020 – March 2022

- Organized and promoted the department's recruitment activities, ensuring a seamless recruitment process.
- Managed the operation of the committee's public WeChat and other social media accounts, overseeing tasks such as copywriting, post-production, typesetting, promotion, and content review.
- Utilized Photoshop (PS) to create inkjet printing materials, design recruitment brochures, and craft engaging promotional leaflets.

September 2021 – September 2022

- Crafted compelling promotional copy to effectively market multiple events for society.
- Handled the duties of photography to capture memorable moments during multiple activities.
- Created thorough financial reports to record the financial spending of the society.

July 2020 – August 2020

- Independently organized poverty alleviation activities in Chuxiong, Yunnan with close cooperation from Yao'an Baiqiang Green Agriculture Development Co., Ltd.
- Utilized advanced statistical approaches to assist the locals of the area in promoting and selling pomegranates to support them during the challenging times of the epidemic.
- Managed backend operations, provided customer support, and conducted live product streams through a Taobao store, resulting in sales surpassing 10,000 yuan.

**Incentive Scholarship, *Beijing Normal University***

2021, 2022 &amp; 2023

**Outstanding Member**, *Symphony Orchestra, Beijing Normal University*

2022 &amp; 2023

**Exemplary Social Work Award, Communist Youth League, Beijing Normal University**

2021

**Excellence Award, “Poverty Alleviation and Dream Building”, Beijing Normal University**

2020

**Language Skills:** English (*TOEFL* R27+L25+S22+W21) + GRE(V161+Q170/AW4.0), and Mandarin (*Native*).

**Computer Skills:** R, Python, Axure, SQL, Stata, Latex, Eviews, SPSS, Tableau, Microsoft Excel, etc.

**Hobbies:** Music (Certified Piano and Flute Player), Music Composition, & Swimming.