QILE TAN

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EDUCATION

University of Southern California May 2024
MS in Applied Economics and Econometrics | **GPA:** 4.00/4.00 Los Angeles, U.S.

- **Econ Courses:** Microeconomic Analysis, Macroeconomic Analysis (Stata), Practice of Econometrics (Stata), Time Series Analysis (Python), Economic Consulting and Applied Econometrics (Stata), Urban Economics, Database Management (SQL)

The Chinese University of Hong Kong, Shenzhen May 2022
BBA in Finance | **GPA:** 3.35/4.00 Shenzhen, China

- **Finance Courses:** Investment Analysis and Portfolio Management (R), Financial Statement Analysis, Fixed Income Securities Analysis (R), Probability for Finance, Corporate Finance, Data Mining for Accounting Analytics, Options and Future
- **Data Science Courses:** Introduction to Data Analytics (R), Stochastic Processes (R), Machine Learning for Business (R), Probability and Statistics, Programming Methodology (Python), Time Series (R), IT in Business Application (Python)
- **Academic Awards:** Academic Performance Scholarship 2018/19, Dean's List 2018/19

INTERNSHIPS

CITIC Securities ***Intern, Research Department*** February - March 2022 Shenzhen, China

- **Data Collection:** Assisted in Jiangsu Tongxingbao's IPO by organizing prospectus data and gathering valuation information from WIND; the company, valued over 8 billion RMB, went public on the Shenzhen Stock Exchange in 2022.
- **Business Model Analysis:** Analyzed Tongxingbao's business and models from its prospectus and researched 28 industry competitors, including ETC manufacturers, expressway companies and intelligent transport system operators.
- **Financial Statement Analysis:** Obtained competitors' operation conditions and financial statements using eastmoney.com and WIND; screened out the major competitors by comparing factors such as similarities of products, services, assets, revenue scale, net margins, and other financial ratios

COURSE PROJECTS

Urban Economics **| Research on Urban Planning in Japan** February - April 2024

- **Data Analysis of Real Estate Trends:** Analyzed 15 years of real estate data from Japan's Ministry of Land using Excel and R to assess regional and property-type price variations through multiple linear regression and machine learning models.
- **Policy Impact and Recommendations:** Investigated price differentials based on location, industry, and zoning regulations across cities, providing policy recommendations to address housing affordability and promote sustainable development.

Economic Consulting **| Post-Pandemic Industry Shifts in the U.S. & China** October - December 2023

- **Panel Data Analysis:** Sampled stock market data to construct panel data; applied fixed and random effects models in Python. Used dummies to examine R&D spending trends across U.S. and China industries, identifying sectors with significant growth.
- **Impact Assessment:** Analyzed firm-level R&D expenditure variations by industry, evaluating the effects of macro policies and corporate strategies. Offered insights on high-growth, innovation-driven sectors to guide industrial transformation.

Price Prediction **| Forecasting Gold Price in the U.S.** March - April 2023

- **Time Series Modeling:** Retrieved World Bank data using Python; developed models (ARIMA, ARIMA+GARCH, SARIMA, ECM, VAR) to forecast gold prices; selected ARIMA+GARCH for accuracy based on test MSE; used VAR to analyze the relationship between gold prices and inflation.

Market Analysis **| Identify optimal locations for opening a new Starbucks in L.A.** March - April 2023

- **Proxy Metrics for Market Insights:** Addressed data limitations by using Starbucks store count as a proxy for market capacity and average number of Google Maps reviews as a proxy for popularity.
- **Econometrics Application:** Using Stata, built three models to select the most profitable zip code areas and determine specific locations within those areas, revealing that roadsides in Chinatown and K-town were the optimal spots for the new Starbucks.

Mathematical Modeling **| Forecasting Clients' Satisfaction Degree for Airlines** November - December 2021

- **Machine Learning Application:** Preprocessed airlines data in R and tested KNN, LDA, QDA, Logistic Regression, classification trees, and Random Forest models. Chose Random Forest for its 95% accuracy and presented the model in class at the professor's invitation.

SKILLS & INTERESTS

Languages: English (TOEFL 109, GRE 330); Mandarin; Cantonese; Japanese (N3) **Software:** Python, R, SQL, Stata, MS Office
Interest: Skateboarding, Hiking, Basketball, Swimming, Cooking