

BAOQI ZHANG

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EDUCATION

Imperial College London

London, UK | Aug 2024 - Aug 2025

MSc in Risk Management and Financial Engineering

Relevant modules: Financial Statistics, Machine Learning and Finance, Risk Management and Valuation, Financial Engineering

University of Edinburgh

Edinburgh, UK | Sep 2020 - Jul 2024

BSc in Mathematics and Statistics (Final Grade: First Class Honours)

Relevant modules: Statistical Programming, Financial Mathematics, Applied Stochastic Differential Equations, Complex Variables

PROFESSIONAL EXPERIENCE

Haitong Securities Co., Ltd

Shanghai, China | Jun 2023 - Oct 2023

Investment Banking Analyst Intern

- Equity Issuance: Reviewed and revised critical issues in the GEM IPO project, addressing over 50 key concerns raised by internal affairs, exchanges, and the China Securities Regulatory Commission, included a thorough evaluation of technological innovation, business model, financial status, shareholding structure, and historical development
- Financial Verification and Risk Control: Initiated and led examination of over 100 bank statements for issuer's major shareholders as part of a comprehensive financial verification process, implemented a confirmation letter control system and directed detailed testing procedures, ensuring accuracy and compliance

Hermès (Shanghai) Trading Co., Ltd

Shanghai, China | Jun 2023 - Jul 2023

LMH Watch Intern

- Operational Data Management: Applied an end-to-end inventory management process including store name updates, SKU filtering, algorithm allocation, data source linking, and inventory quantity analysis to optimize inventory allocation and drive operational efficiency
- Product Data Analysis: Developed a refined watch sales analysis report, including product reviews, age segments, materials analysis, and sales strategy, and examined age segments to identify target demographics, the research led to an 10% increase in sales to the 25-34 age group and improvement in marketing efficiency

KPMG

Shanghai, China | Jul 2021 - Sep 2021

Summer Audit Intern (CP4 FIE Group)

- Meidong Automotive (Interim Audit Project): Integrated inventory, sales, and purchase records for vehicle sales to establish a data pivot table, and conducted an analysis of sales across seven automobile brands; Assessed M&A with multi-period excess earnings method for two auto firms; Reviewed and verified updated inventory records
- A Car Brand Company (IPO project): Presented company's advantages to ten stakeholders of client company; Produced financial analysis charts through application of benchmark data and compared key financial metrics with core competitors
- Mihoyo CO., LTD (Sodexo External Audit): Collaborated with cross-functional teams on an audit project, ensuring accurate auditing of third-party financial data; Conducted inventory inspections and analyses, producing detailed inventory variance analysis tables

ACHIEVEMENTS

Research Experience: Spatial Data Analysis for Diseases Mapping

Edinburgh, UK | Sep 2023 - Mar 2024

- Data Collection and Integration: Spearheaded a comprehensive data collection initiative, successfully acquiring, cleaning, and integrating over 500,000 records from Scottish official medical data, smoking statistics, and other disease-related factors; Developed and implemented a data fusion process using geocoding to enhance the accuracy of spatial analysis
- Spatial Analysis: Applied spatial weights to investigate spatial dependencies across 15+ council areas; Manually linked isolated areas based on shipping routes; Utilized Moran's I to examine spatial autocorrelations and employed LISA cluster plots for visualizing spatial patterns and clusters
- Modelling and Efficiency Improvement: Developed and applied a CAR Bayesian model to predict lung cancer rates, benchmarking it against the Poisson model; Analyzed over 200,000 historical patient records, current demand, and additional variables to optimize resource allocation, resulting in a 15% improvement in patient outcomes and a 10% reduction in NHS treatment costs

Research Experience: Spatial Data Analysis for Diseases Mapping

London, UK | Jan 2025 - Mar 2025

- Data Engineering and Preprocessing: Led the cleaning and integration of over 500,000 user reviews across 10 major app categories (e.g., finance, gaming, social media); implemented advanced NLP preprocessing techniques including trigram tokenization, negation handling, and stemming, significantly improving model performance
- Model Development and Evaluation: Built and compared multiple sentiment prediction models leveraging LASSO regression, word vector representations, multi-dictionary approaches, and politeness features; evaluated model performance using Kendall rank correlation, with the LASSO-based financial model achieving the highest predictive accuracy

- Cross-domain Transfer Learning: Conducted both app-level and category-level model transfer experiments across 9 app categories (e.g., games, music, travel); introduced category-specific fine-tuning strategies with dynamic model updates based on feedback errors, substantially improving performance in low-resource domains.
- Topic Modeling and Interpretation: Applied Structural Topic Modeling (STM) to identify key user concerns (e.g., ads, social features, in-app purchases); evaluated the polarity of each topic's impact on user ratings and enhanced interpretability using word clouds and network graphs.

ADDITIONAL SKILLS

Technical Skills

Microsoft-Suites, Python (Matplotlib, Sage Math, NumPy, etc.), R (Advanced level), SQL, LaTeX, Linux, Coursera (Fundamentals of Quantitative Modelling, Introduction to Corporate Finance, Introduction to Spreadsheets and Models)

Languages

English (proficient), Mandarin (native)