LIHONG GAO

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EDUCATION

Johns Hopkins University   Washington DC, USA
Master of Science in Business Analytics and Artificial Intelligence   Expected 08/2025-07/2026
Shanghai University of International Business and Economics   Shanghai, China
Dual Bachelor Program in coalition with Douglas College, Canada   09/2021-06/2025
Bachelor of Economics in Finance, SUIBE
Bachelor of Business Administration, Douglas College

Course: Intermediate Microeconomics, Applied Micro Econometrics, Python for Financial Data Analysis, Investment and Experiment Based on R, Security Analysis, Statistical Modeling, Machine Learning, Data Mining, Business Intelligence

WORK & LEADERSHIP EXPERIENCE

Deloitte IBond (Shanghai) Co., Ltd.   Shanghai, China
Intern, iBond Department   03/2025 - 05/2025

- Spearheaded development of AI-powered **corporate credit early-warning model,** reducing rating deviation cases by **50%**.
- Migrated 3x financial data sources from static tables to **dynamic database pipeline** using **SQL** and **Python** scripts daily.
- Built **multi-factor logistic regression model** incorporating **pricing factors** and **cross-entity linkages** for default predictions.
- Improved **machine learning** model stability through automated **code modularization**, reducing rating drift from 4% to 1.8%.
- Processed **seven months** of bond trading data using **Python pandas** to compute **spread metrics** for risk analysis reports.
- Conducted **multi-dimensional coverage evaluation** of **millions of judicial records** from **ZhiAnXin third-party database**.

China Fortune Securities Co., Ltd.   Shanghai, China
Intern Researcher, Electrical Engineering Group   07/2023 - 10/2023

- Conducted **in-depth industry research** and **financial analysis** on **power semiconductor** and **superconducting sectors**.
- Collected and analyzed **five years** of market data including **market size**, **penetration rates**, and **consumer demographics**
- Leveraged **Wind** and **Hithink RoyalFlush** platforms to compile **comprehensive datasets** on **sub-industry segments**.
- Authored **15 company review reports** interpreting **operational metrics** and **financial disclosures** for investment decisions.
- Conducted **DCF** and **PE-based valuation modeling** to assess **investment potential** of major **electronics industry leaders**.

PROJECT EXPERIENCE

13th AIA International Finance Research Project   01/2023 - 03/2023

- Analyzed **Hong Kong offshore financial market** using **quantitative methods** and **multiple database sources** effectively.
- Collected comprehensive data including offshore RMB index, GDP ratios, exchange rates using **regression analysis** techniques.
- Applied **Granger causality test** proving **positive correlation** between **RMB internationalization** and **market development**
- Published paper as **co-first author** in **ICSSED 2023** on **digital marketing strategies**, indexed by **CPCI and CNKI** databases.

Business Analytics: Statistical Modeling for Big Data Analysis   07/2023 - 08/2023

- Studied **statistical theory** and **R programming** applications for **financial technology** impact on **Chinese SME financing**.
- Analyzed **academic papers** focusing on **credit delivery paradigms**, **efficiency improvements**, and **default risk reduction**.
- Utilized regression models and machine learning algorithms to analyze **50K+ transaction records** demonstrating **25% gains**.
- Published as **first author** in **ICMRED 2024**: "From Cogs to Connectivity: Fintech and Industrial Revolution".

SKILLS

Analytics Tools: Python (pandas, NumPy, scikit-learn), R, MySQL, Stata, SPSS, SAS, Tableau, Power BI
Data Technologies: SQL, MongoDB, Hadoop, Spark, Excel (Advanced), Bloomberg Terminal, Wind Database
Statistical Methods: Regression Analysis, Time Series, Machine Learning, DCF Modeling, Monte Carlo Simulation
Business Intelligence: Financial Modeling, Risk Analysis, KPI Development, Data Visualization, ETL Processes