YISHAN "LAMBERT" LI belambert2002@gmail.com | 336.744.6034 | Raleigh, NC | www.linkedin.com/in/lambertliy | Portfolio

EDUCATION

North Carolina State University, Raleigh, NC

December 2026 Master of Financial Mathematics

Wake Forest University, Winston Salem, NC

Master of Science in Business Analytics May 2025

GPA: 3.93/4.0, graduated with distinction

May 2024 Bachelor of Science in Mathematical Economics (Minor: Psychology)

GPA: 3.64

Relevant Coursework: Applications of Machine Learning, Supply Chain Analytics, Dynamic Programming, Probability Theory, Ordinary Differential Equations

CERTIFICATIONS

Corporate Finance Institute | FMVA, FPWMP Certified Designation

Google Analytics Certification | Google Skillshop

Quant Finance Institute | Quant Finance Bootcamp, in-progress QuantNet | C++ Programming for Financial Engineering, in-progress

GARP | FRM Level 1 Candidate, in-progress

TECHNICAL SKILLS

Programming: Python, SQL, Java, C++, Linux

Technologies: Microsoft Office Suite: Excel, Word, PowerPoint, Outlook, Tableau, PowerBI, CRSP, Wharton Research Data Service (WRSD), Refinitiv, Wind (China) Packages: yfinance, Pandas, scipy, sklearn.model, sklearn.ensemble, sklearn.metrics, imblearn, sklearn.decomposition, xgboost, plotly, matplotlib, seaborn, statsmodels

PROFESSIONAL EXPERIENCE

Quantitative Analytics Intern, SDIC Securities Co., Shenzhen, China

May 2025 – Present

October 2024

March 2025

- Pre-processed and analyzed large-scale financial datasets, performing validation, and dimensionality reduction to support model estimation and event studies.
- Developed and implemented the Vasicek and Cox-Ingersoll-Ross (CIR) stochastic interest rate models, capturing mean-reverting behavior in interest rate dynamics to reflect realistic economic conditions.
- Performed market calibration using Maximum Likelihood Estimation (MLE) to estimate key parameters such as the speed of mean reversion, long-term mean, and volatility, ensuring model alignment with observed interest rate movements

Graduate Research Assistant, Wake Forest University School of Business, Winston-Salem, NC

August 2024 - Present

- Developed a Python-based simulation framework to model a tax-efficient ETF portfolio replicating a market benchmark over a 16-year horizon
- Engineered annual portfolio rebalancing logic and sequential least square variance minimization for tracking error using historical data from 2007–2023, yielding an annualized tracking error of 0.01% and a simulated annual return of 11%
- Automated data ingestion from Excel and constructed backtesting loops to simulate investment performance year-over-year, adjusting for IRS wash sale rule compliance in rebalancing decisions, and using Choleskey decomposition for distribution and covariance extraction to conduct Monte Carlo simulations
- Implemented optimization routines using scipy.optimize to allocate weights across large-, mid-, and small-cap ETFs for tax loss harvesting purposes

Consulting Intern, McKinsey & Co., Shanghai, China

December 2022 – January 2023

- Conducted in-depth research on the business opportunities within the metaverse, focusing on retail, fashion, and luxury industries
- Applied web3.0 technologies to overhaul manufacturing clients' business models, resulting in strategic transformations and enhanced competitiveness
- Diversified revenue streams for client companies and modernized customer payment frameworks, optimizing financial operations

COMPETITION & PROJECT EXPERIENCE

Comprehensive Risk Modeling, Quantitative Finance Institute

June 2025

- Developed and implemented Value at Risk (VaR) models using Historical Simulation, Variance Covariance, and Monte Carlo Simulation methods, leveraging Excel for quantitative computations; analyzed portfolio risk exposure and tested the VaR model in different market conditions
- Conducted rigorous backtesting of VaR models using Traffic Light and Kupiec Tests to assess the accuracy and reliability of risk predictions; designed statistical validation techniques to ensure model robustness and compliance with regulatory frameworks such as Basel III
- Implemented Expected Shortfall (Conditional VaR) as an advanced risk measure, comparing its effectiveness against traditional VaR models. Conducted analysis to evaluate risk under tail events, improving risk management strategies and decision-making processes.

Graduate Consultant, Mastercard

October 2024 - May 2025

- Developed insights into risk measurement frameworks for Generative AI products, supplementing existing measures with quantitative metrics such as Long Perplexity, Perplexity Drift, Hallucination, Brier Score, and identified use cases as well as demonstration for metrics calculation
- Reviewed internal AI assessment guidelines and drafted an executive-level AI valuation proposal incorporating historical price trends, government reports, return on investment analysis, and industry benchmarks to evaluate the competitive landscape of generative and probabilistic models
- Conducted literature reviews and foundational reseafsrch to inform data-driven recommendations for navigating the evolving Generative AI market. Presented findings to the President of AI Governance, shaping strategic discussions on AI oversight

3rd Place, Arch Mortgage Insurance, Data Dive Competition

October 2024

- Developed strategic recommendations for a regional nonprofit addressing funding and volunteer shortages under time pressure
- Conducted thorough data cleaning, diagnosis, and visualization of donation and service delivery records using pandas and scikit-learn
- Applied time-series analysis and ARIMA modeling to isolate trends in donation patterns and used k-means clustering to segment donors, enabling datadriven, targeted marketing initiatives

1st Place, KPMG Financial Services, Case Competition

March 2024

- Presented a strategic solution for a mid-sized bank focusing on customer retention and tech-driven growth
- Conducted comprehensive market analysis using Porter's Five and PESTLE to pinpoint immediate and long-term commercial banking challenges
- Delivered two 20-minute pitches showcasing detailed financial projections to senior analysts, including a 233% benchmark IRR, supported by monthly cash flow analysis to demonstrate project feasibility and profitability

LEADERSHIP AND COMMUNITY INVOLVEMENT

Wake Forest University Old Gold and Black Student Press, News, Environment Reporter (2023 - 2024), Best of SNO award (2023)

October 2023 August 2024

Wake Forest University School of Business, Student Engagement Committee

August 2022 - May 2025

Wake Forest University Badminton Club, Member