

SHENGBO LANG

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EDUCATION BACKGROUND

NEW YORK UNIVERSITY- The Courant Institute of Mathematical Sciences	New York, NY
MS in Mathematics in Finance	Sep 2021 – Dec 2022
• Coursework: options pricing, volatility models, Black-Scholes formula and Greeks, stochastic calculus, risk and portfolio management, market microstructure	
UNIVERSITY OF NOTTINGHAM	Nottingham, UK
BSc (Honors) Mathematics with Applied Mathematics	Sep 2017 – Jun 2021
• Coursework: probability, stochastic processes, time series analysis, numerical analysis	
• Awards: School Achievement Prize (top 1% in the class)	

WORK EXPERIENCE

HYPHEN - SOVEREIGN WEALTH FUND	New York, NY
<i>Macro Quantitative Research Consultant</i> (May 2022 – Oct 2022)	
• Built Dynamic Factor Model on US recession forecasting (Pseudo R-squared approx. 0.85 in 30 year in-sample backtest); constructed factors based on economic activities and financial-market indicators; developed economic interpretations for the model	
• Analyzed the lead-lag relationships over 100 global asset returns and economic indicators data; Create advanced visualization (matplotlib) and evaluated correlations for alpha potential	
• Forecasted CPI and GDP using multiple regression models on asset and macro data	
• Tested 60 technical indicators on industrial and national total returns (MATLAB-Financial toolbox)	
ZHEJIANG VENTURE CAPITAL GROUP CO., LTD	Hangzhou, China
<i>Research Analyst, Investment Department</i> (Jun 2021 – Aug 2021)	
• Conducted financial, statistical and industry analyses (e.g., linear regression, interval estimation) on companies and industries to support team's investments	
• Performs due diligence on various companies via conference calls and on-site due diligence trips	

RESEARCH PROJECTS

NEW YORK UNIVERSITY	New York, NY
<i>Portfolio Construction using Graph Sampling</i> (Python)	
• Applied PCA to stock features and constructed graphs based on the outcome; used graph sampling methods for stock selections; conducted backtest (results: 2% Tracking Error with S&P 500 index over 2017-2022)	
<i>Energy Trading Strategies</i> (Python)	
• Developed Carry and Momentum strategies to crude oil and petroleum futures	
• Back-tested rolling 1M futures cumulative returns with equity line (results: 0.7 Sharpe Ratio and 26% annualized return over 1993-2020)	

UNIVERSITY OF NOTTINGHAM	Nottingham, UK
<i>Time Series Analysis and Forecasting of Sales Data</i> (R)	
• Pre-processed data sets, visualized their characteristics (e.g., trends, stationarity, seasonality)	
• Identified suitable models; forecasted future values based on fitted models	

TECHNICAL SKILLS

Programming Languages: Python, Tableau, Sql, R, MATLAB, Java