Yiang (Leo) Li

929.426.9983 | www.linkedin.com/in/yiang-li-63278419b | yiangl@andrew.cmu.edu

EDUCATION

CARNEGIE MELLON UNIVERSITY, TEPPER SCHOOL OF BUSINESS — New York, NY
Master's in Computational Finance — 12/24
- Coursework: Machine Learning, Fixed Income, Optimization, Stochastic Calculus, NLP
- 1st place in Quantbot Datathon

NEW YORK UNIVERSITY — New York, NY
Bachelor's in Mathematics, Computer Science & Economics — 5/23
- Programming skills: Python, Java, C, SQL, Power BI

PROFESSIONAL EXPERIENCE

NORTHERN TRACE CAPITAL LLC — Columbus, OH
Quantitative Trading Intern — 5/24 – 8/24
- **Alpha Generation:** Increased hit rate by 5% through developing trading signals using rolling LASSO regression, selecting features from fundamental and macro indicators, leveraging the decorrelation between mining stocks and copper prices
- **Backtesting:** Built ML pipelines for signal generation and backtesting, with purging and embargo to prevent data leakage, and real-time monitoring for data revisions and adjustment, integrated into the firmwide backtesting suite
- **Regime Shift Analysis:** Implemented analogs and time series clustering on historical price to identify regimes closely resembling current market condition and forecasted price movement using key predictive features within similar regimes
- **Fundamentals Monitoring:** Designed monitoring tools to track supply and demand across crude oil, natural gas, CCA, and metals; tracked rolling correlation between commodities and their drivers, and alerted traders on unusual market conditions
- **LLM:** Engineered a RAG to extract macro trends from research reports, generating sentiments to form team's market views

GUOTAI JUNAN FUTURES — Shanghai, CN
Commodity Analyst Intern — 6/22 – 8/22
- **Forecasting:** Predicted future pricing of commodities and adjusted trading strategies by reviewing historical trends; wrote 10+ research reports on photovoltaics, electric vehicles, micro control unit industries to measure supply and demand
- **Signal Analysis:** Investigated the relationship between metal exports and shipping industry using linear regression
- **Financial Analysis:** Evaluated private firm's market potential and revenue outlook by analyzing financial data, including net income, gross profit rate, and revenue to support clients on investment decisions

SPIC XIANRONG ASSET MANAGEMENT CO. — Shanghai, CN
Quantitative Research Intern — 6/21 – 8/21
- **Trading Strategies:** Researched and implemented quantitative strategies based on traditional moving average and channel strategy, resulting in a long-short portfolio with Sharpe Ratio of 2.35, consisting of 30+ commodity contracts
- **Optimization:** Conducted simulations and adjusted strategy parameters to maximize profit, increasing win rate by 2%
- **Commodity Research:** Analyzed coal futures and industry trends using Bloomberg Terminal and other financial databases to develop new trading ideas and created models to estimate the supply and demand

RESEARCH/PROJECTS

ANOMALY DETECTION ON SEC DATASET — 12/23
- Implemented anomaly detection for 600 MB dataset using parametric modeling, nonparametric modeling, clustering, and dimension reduction, generating clear visualizations to highlight each anomaly for further research

RUSSIAN COMMODITY REGIME SHIFT ANALYSIS — 8/22
- Published an 18-page paper on *Scientific Research Publishing*; researched the relationship between Russian commodities and Europe's stock market during and before the Russia-Ukraine War; applied linear regression and Spearman rank correlation
- Created data visualization using Python (sklearn linear model) to showcase results
- Back-tested beta-hedge strategies and visualized cumulative return of natural gas on FTSE100 for 1000+ days of data

ADDITIONAL INFORMATION

- **Interests:** Competitive Gaming, Board Games (Go), Magic: The Gathering, Mahjong, Badminton
- **Leadership:** Vice President of Chinese Students & Scholars Association; Vice President of Chinese Financial Club
- **Languages:** Mandarin (Native), Shanghainese (Native)