RUMING LIU

Dec. 2018 - Mar. 2019

Jun. 2017 - Sep. 2017

Education

Stevens Institute of Technology Sep. 2022 -Doctor of Philosophy, Finance Hoboken, NJ, U.S.A

University of Southern California Sep. 2019 - Jun. 2021 Master of Science, Mathematical Finance Los Angeles, CA, U.S.A

Jiangxi University of Finance and Economics Sep. 2015 - Jun. 2019

Bachelor of Economics, Finance Nanchang, Jiangxi, China

University of California San Diego Mar. 2018 - Jun. 2018

Extension Program, Statistics La Jolla, CA, U.S.A

Work Experience

China Investment Securities

Moody's Analytics Sep. 2021 - Sep. 2022

Financial Engineer Client Service Specialist San Francisco, CA, U.S.A

- Provided thorough quantitative and conceptual solutions for default risk to clients. • Supported on products RiskCalc, CreditEdge, RiskFrontier and MIS rating via web, application, and API.
- Worked on Moody's credit model (Probability of Default, Expected Default Frequency, Loss Given Default, Distance to Default, Implied Rating, G-Correlation, Credit Migration, Risk Contribution, etc.)

Derivatives Analyst Shenzhen, Canton, China

Designed, built and maintained tools used in dynamic hedge program and derivative portfolio management.

- Assisted in developing option price forecasting model.
- Developed a detailed knowledge of volatility arbitrage and market maker trading strategy.
- Provided Front Office support for financial reporting and data mining.

China Merchants Bank Dec. 2017 - Jan. 2018

Financial Data Analyst Shenzhen, Canton, China • Took part in Bitcoin market arbitrage analysis research, worked in trading strategy and algorithm part.

- Worked with other programmer in financial products classification project by machine learning technique.
- Involved in design, testing and implementation of new financial and managerial reports.
- Wrote and published regular and ad hoc macro-economy reports. China International Trust and Investment Corporation

Stock Trading Assistant Nanchang, Jiangxi, China

• Under guidance, built algorithm for momentum and reversal trading strategy.

- Demonstrated projects while working effectively under pressure ability to complete multiple.
- Assisted in creating Excel tools and models to help dealer systematize and improve their data visualization.
- Wrote and published regular and ad hoc macro-economy reports.

Projects and Researches

Sentiment in the Cross Section of Cryptocurrency Returns (Link)	Dec. 2023
Cryptocurrency Arbitrage Across Exchanges (Link)	Jan. 2024
Front-running Game in Blockchain (Link)	$\mathrm{Dec.}\ 2022$
Cointegration Method in Statistical Arbitrage (Link)	May. 2022
A Possible Way to Search Pairs Trading Arbitrage (Link)	Oct. 2020
Thoughts on the Internationalization of Chinese RMB (Link)	May. 2019
More on homepage (Link)	

Technical Skills

Experienced with Blockchain technology: Bitcoin, Ethereum and other blockchain protocols. Competent in Blockchain development (DApps) language Solidity, Brownie framework, Rust and Vyper. Good at using statistical tools such as Matlab, SPSS and R to conduct quantitative research. Familiar with statistical inference and machine learning by using Python. Skilled in API and web mining. Have experience in MySQL and data mining. Passed FRM examination Level I in 2017.