## **MENG YUAN**

(551) 359-0254 // meng.yuan@nyu.edu // linkedin.com/in/yuanm

## **EDUCATION**

Expected 12/24	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
	• <i>Forthcoming Coursework:</i> stochastic calculus, algorithmic trading, data-drive statistical inference, derivatives pricing	en modeling,
09/18 - 06/22	SICHUAN UNIVERSITY       Chengdu, China         B.Econ. in Financial Engineering          • Coursework: time series analysis, financial stochastic processes, machine learning, OOP in Java, data structure and algorithms in C++, database system, numerical methods, econometrics	
EXPERIENCE		
09/21 - 01/22	<ul> <li>SHANGHAI KAFANG INFORMATION TECHNOLOGY</li> <li>Quantitative Research Intern</li> <li>Constructed high-frequency CTA signals (e.g., step order imbalance ratio and using fundamental analysis, technical analysis and deep learning models like C</li> <li>Developed high-frequency CTA market-making strategies based on LGBM, in high-frequency signals with low-frequency signals</li> <li>Backtested strategies on 50+ types of commodity futures and obtained annuali 30% with max drawdown &lt; 5%, winning ratio of 70% and Sharpe ratio of nea</li> <li>Calculated fill rate of algorithmic trading orders and futures' price receiving to optimize strategies</li> </ul>	CNN and LSTM accorporating zed return over rly 3
07/21 - 08/21	<ul> <li>SHENYIN &amp; WANGUO FUTURES</li> <li>Quantitative Research Intern <ul> <li>Calculated delay of every second between local and exchange servers with line model</li> <li>Predicted probability of stock prices declining from surged limit with technica machine learning models (e.g., neural networks, decision trees), achieving 80%</li> <li>Constructed timing strategy by predicting half-month stock returns based on d annualized alpha return reaching 20% and max drawdown of 10% in bear mar</li> </ul> </li> </ul>	l analysis and 6 accuracy ecision trees, with
PROJECTS		
10/21 - 02/23	<ul> <li>SICHUAN UNIVERSITY Chengdu, China</li> <li>Enhanced Index Tracking Based on Kernel Search <ul> <li>Modeled enhanced index tracking as mixed integer linear programming (MILP) problem and solved it by applying heuristic kernel search, using YALMIP tool</li> <li>Improved kernel search algorithm by dividing time span into multiple periods, reducing out-of-sample RMSE from 1.5 to 0.3, according to backtests on China's CSI 300 index</li> </ul> </li> </ul>	
10/20 - 09/21	<ul> <li>SICHUAN UNIVERSITY</li> <li>Portfolio Management Based on Random Matrix Theory</li> <li>Filtered covariance matrix of portfolio returns with random matrix theory</li> <li>Calculated minimal risk portfolio and efficient frontier in Markowitz's theory covariance matrix, reducing out-sample risk by 2/3 on China's CSI 300 index</li> </ul>	Chengdu, China using filtered

## **COMPUTATIONAL SKILLS / OTHER**

*Programming Languages:* Python, Java, C/C++, MATLAB, SQL *Languages:* English (fluent), Mandarin (native)