

DAOMING ZHANG

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EDUCATION

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| NEW YORK UNIVERSITY THE COURANT INSTITUTE OF MATHEMATICAL SCIENCES <i>Master of Science in Mathematics in Finance</i> | New York, NY Expected Dec 2022 |
| UNIVERSITY OF MARYLAND <i>Bachelor of Science in Applied Mathematics & Computer Science</i> Awards: Dean's List (bestowed during all semesters due to academic excellence) | College Park, MD May 2021 |

SKILLSET

Programming Skills: Java, Python (pandas, sklearn), SQL (MySQL, PostgreSQL), MATLAB
Coursework: Time Series Analysis, Machine Learning, Computational Finance, Systematic Trading Strategies

EXPERIENCES

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| HUIJIN ASSET MANAGEMENT <i>Intern, Assistant Product Manager</i> | Jun 2021-Aug 2021 Shanghai, China |
| <ul style="list-style-type: none">Produced summary spreadsheets on disclosed related parties through fundamental, competitor and industry analysis, facilitating the IPO process for the Investment Banking DepartmentTrack daily P&L of existing funds with basic VBA functions on price data from WIND-Economic database, monitor abnormal value changes and signaled potential risks to operation managers | |
| GUOSHEN SECURITIES <i>Intern, Fixed Income Risk Management Analyst</i> | Jan 2020-Feb 2020 Shanghai, China |
| <ul style="list-style-type: none">Evaluated default risk of debtors based on their operation status and market environment presented in financial reports, and drafted risk disclosure document for the due diligence reportResearched on economic competitiveness and financial development across regions in China | |

PROJECTS

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| NEW YORK UNIVERSITY, COURANT INSTITUTE <i>Portfolio Construction using Graph Sampling (Python)</i> | Sep 2022-Current |
| <ul style="list-style-type: none">Create S&P500 tracking portfolio using graph-based approaches with lower expenseApply PCA to reduce dimensions of each stock's technical and fundamental indicator dataBuild stocks' network through Minimum Spanning Tree and Planar Maximally Filtered Graph, whose edges among nodes represent correlations of the results of PCABacktest S&P500 active components (2017-2022), and construct portfolio with 10 central stocks and 10 peripheral stocks to reach minimum absolute tracking error regarding quarterly returns | |
| <i>Risk Premium Strategy on WTI Futures (Python)</i> | Mar 2022-May 2022 |
| <ul style="list-style-type: none">Backtested carry-momentum strategy, reaction-function-based momentum strategy, and a combination of both on WTI Futures (2010-2021), with a buy-and-hold rolling portfolio as benchmarkOptimized signal performance and reached annualized Sharpe Ratio of 0.95, transaction cost considered | |
| UNIVERSITY OF MARYLAND <i>Analysis of San Francisco Crime Dataset (Python)</i> | Oct 2020-Dec 2020 |
| <ul style="list-style-type: none">Explore relationships among multiple criminal criteria on San Francisco crime data set (2016) with pandas and visualized crime occurrences and risk levels by interactive heat map with folium and seabornPredicted crimes by machine learning models (e.g. Random Forest) on imbalanced data and evaluated models by multiple standards (e.g ROC curve) | |

ACTIVITIES

Volunteer: ESL Program, 2018 (high-school level English reading and writing tutoring)