Hanxi Ye

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Education

University of Michigan, Ann Arbor, MI — Aug. 2015 – Dec. 2016

Master's student in Quantitative Finance & Risk Management — GPA: 3.82/4.0

- Relevant Courses: Stochastic Calculus, Continuous-Time Finance, Machine Learning, Fixed Income, Statistical Methods in Finance, Computational Finance, Linear Models

Zhejiang University, Hangzhou, China — Sept. 2011 – Jun. 2015

Bachelor's degree in Economics — Major GPA: 3.75/4.0

- Relevant Courses: Econometrics, PDEs, Data Structure and Algorithms, Object-Oriented Programming

Professional Experience

State Street Corporation — Jun. 2016 – Aug. 2016

Business Analyst Intern — Hangzhou, China

- Provided finance research to support a group operating a fund investment app for Chinese retail investors
- Composed research paper about robo-advisors, explored business models of leading companies
- Implemented Black-Litterman model to determine the optimal weights over various types of assets for clients with different risk-return preferences and investment goals, and back-tested performances of time-based and threshold-based rebalancing strategies

Yuntu Houpu Investment Management Co., Ltd. — Oct. 2015 – Dec. 2015

Part-time Risk Analyst — Shenzhen, China

- Performed risk control for a private fund of Chinese A-shares with AUM $1 million in a five-man team
- Aggregated daily raw P&L data by Python, calculated portfolio VaR and automatically produced risk reports
- Participated in the formulation of daily trading plans, built Excel-VBA tools connecting to Choice Financial Terminal to automatic notifications about timing of putting buy/sell orders for traders

Project Experience

Portfolio Simulation for Risk Management — Oct. 2016 – Nov. 2016

- Collaborated with 3 classmates to build a Monte-Carlo simulation of financial market portfolio
- Implemented a method to calculate VaR in C++, enhanced the readability and reusability of the code by object-oriented programming, managed team collaborations via Github
- Improved efficiency by using weighted returns time series instead of the correlation matrix

Mircostructure Study on China's Stock-Index Futures — Mar. 2015 – Jun. 2015

- Collected high-frequency (two ticks per second) data of four parallel CSI 300 future contracts of 90 trading days, preprocessed raw data in CSV files using C++ to improve the efficiency of calculation
- Applied VPIN model to compute the probability of informed trading of each trading day
- Built simultaneous equation model to estimate the impact of informed trading on volumes and volatilities, where significant effects were examined

Pairs Trading Strategy Based on Cointegration — Mar. 2015 – Jun. 2015

- Collected data for 14 telecom stocks' prices, created visualizations of correlations
- Chose AT&T and Verizon as a pair, applied cointegration test to determine the optimal hedging ratios
- Back-testing of the strategy yielded annual return of 22.4%, max drawdown of 2.90%, and 1.8 Sharpe Ratio

Others

- Programming & Software Skills: C++, Python, R, Matlab, SQL, LaTeX, Stata
- Hobbies: Texas Hold'em, Basketball, Swimming