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: Mathematical Statistics, Econometrics, Securities Investment, Partial Differential Equations, Data Structure and Algorithm Analysis, Object-Oriented Programming

Professional Experience

State Street Corporation, Hangzhou Office — Jun. 2016 – Aug. 2016

Business Analyst Intern

- Provided finance research services in a group developing a fund investment app
- Conducted research topics about robo-advisors, compared techniques used by leading robo-advisor companies, and implemented Black-Litterman model to optimize a portfolio of ETFs

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

Part-time Risk Analyst

- 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

Research Topics about Option Pricing — Dec. 2015 – Jan. 2016

- Deeply studied Black-Scholes model, derived analytical solution of vanilla option prices via 3 approaches
- Implemented methods like binomial trees and Monte-Carlo simulation to compute prices of American options in C++, enhanced the readability and reusability of the code by object-oriented programming
- Implemented PDE approach of the pricing of digital options by C++, and computed its Delta and Gamma

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 trading volumes and price volatilities, where significant effects were examined

Pair Trading Strategy of Futures Based on Cointegration — Mar. 2015 – Jun. 2015

- Collected the data of 23 futures' prices, drew colored conditional formatting graphs of correlations
- Analyzed highly correlated futures in R, applied cointegration test to determine the weights of each futures
- Back-testing of the strategy yielded annual return of 22.4%, max drawdown of 2.90%, and 2.2 Sharpe Ratio

Others

- Programming & Software Skills: C++, Python, R, Matlab, SQL, LaTex, Stata
- Language: Language: Mandarin (Native), English (Fluent, TOFEL 103)
- Hobbies: Texas Hold'em, Basketball