

# HANXI YE

✉ hanxiye@umich.edu · ☎ (+1) 734-546-7642

## 🎓 EDUCATION

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**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 Structures and Algorithm Analysis, Object-Oriented Programming

## 👤 PROFESSIONAL EXPERIENCE

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**State Street Corporation, Hangzhou Office**

Jun. 2016 – Aug. 2016

*Business Analyst Intern*

- Provided finance research to support a group operating a fund investment app for Chinese retail investors
- Composed a research paper about robo-advisors, investigated business models of leading robo-advisor companies, and explored common asset allocation models employed by these 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

**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 in 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

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**Pairs Trading Strategy Based on Cointegration**

Mar. 2016 – Apr. 2016

- Collected data for 14 telecom services companies' stock prices, created visualizations of correlations over different time periods
- Applied cointegration test to highly correlated stocks, chose AT&T and Verizon as a pair, estimated their hedge ratios dynamically on a rolling basis
- Modified conditions for opening positions and stop-loss, back-testing of the strategy yielded annualized return of 22.4%, max drawdown of 2.90%, and 1.8 Sharpe Ratio

**Microstructure 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

## 📌 OTHERS

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- Programming & Software Skills: C++, Python, R, Matlab, SQL,  $\LaTeX$ , Stata
- Language: Mandarin (Native), English (Fluent)
- Hobbies: Texas Hold'em, Basketball, Swimming