Xiaoman Wang

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EDUCATION

University of Michigan, Ann Arbor, MI Sep 2016-Present

- Master of science in Quantitative Finance and Risk Management，GPA (4.0 Scale): 3.995
- Course Highlight: Discrete State Stochastic Processes, Analysis for Finance, Financial Mathematics

Nanjing University, Nanjing, China Sep 2012-Jul 2016

- Bachelor of Science in Financial Engineering, GPA(100 scale)：90.36
- Course Highlight: Stochastic Processes, Financial Database and Data Analysis, Financial Econometrics

National Tsinghua University, Hsinchu, Taiwan Feb 2015-Jun 2015

- Department of Quantitative Finance, GPA (4.0 Scale): 4.0
- Course Highlight: Discrete Mathematics, Derivatives Pricing , Financial Product Design and Pricing

WORK EXPERIENCE

FullGoal Funds, Shanghai, China Jun 2017-Sep 2017

Investment Strategy Analyst, Fixed Income Department

- Collected and analyzed multiple data from company financial reports and researched into relevant regulations to forecast the size of the convertible bond market; proposed investment strategy for the upcoming market booming
- Compared the world 10 largest AUM companies in debt market by collecting and modelling data to analyze their situations including product line, asset allocation, investment strategy and customer composition
- Researched different indexing methods including Fundamentally-weighted, Risk-weighted to facilitate the development of a new passive fund product; applied logistic regression to pick the optimal indexing method.

Guosen Securities, Shenzhen, China Jul 2015-Sep 2015

OTC Derivatives Intern, OTC Department

- Assisted senior analysts in structuring and pricing 7 derivatives products of different underlying asset including exotic options of CSI 300 Index and structured notes
- Proposed variance reduction techniques like Antithetic Variables, Moment Matching and Control Variates to enhance the available Monte Carlo simulation module for pricing options and estimating the Greeks
- Contributed to the booking system development using VBA and MySQL to allow traders to query and insert derivatives transactions records.

Co-founder, Portfolio Management May 2014-Aug 2015

- Sponsored by leading securities in China and structured the investment policy of the student-run virtual fund by conducting equity research, factor analysis, and portfolio optimization
- Developed software in VBA and R to analyze fund portfolio risk as a result of exposure to various factors
- Organized lecture series on various basic investment topics, including Discounted Cash Flow Model, Modern Portfolio Theory and Asset Pricing Models.

ACADEMIC EXPERIENCE

Empirical Research on Financial Distress Prediction Models for Companies in China Jan 2015-May 2015

- Employed machine learning algorithms such as Logistical Regression, Support Vector Machine with prediction variables such as Debt Ratio and Operating Cash Flow to forecast the financial distress of companies
- Applied to Classification Accuracy Rate approach and the Area under the Receiver Operating Characteristics Curve (AUC) to calculate and compare the performance of different models
- Demonstrated average accuracy rates above 84% and AUC values above 0.78, and concluded the best prediction ability of the SVM method.

SKILLS

Software: C/C++, MATLAB, R, SAS, Python, Bloomberg. **Language**: English, Chinese