Dapeng Shang

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EDUCATION

University of Michigan — Ann Arbor, MI

M.S. in Quantitative Finance and Risk Management • GPA: 3.6/4.0 — *Sept.2015-Present*

M.S. in Applied Statistics• GPA: 4.0/4.0 — *Sept.2016-Present*

Courses: Applied Statistics, Advanced Financial Mathematics, Stochastic Analysis, Numerical Methods(Matlab), Statistical Models and Methods for Financial Data(R), Machine Learning(Python), Statistical Computing(C++)

Shandong University — Jinan, China

B.S in Financial Mathematics and Financial Engineering • GPA: 3.74/4.00 — *Sept. 2011-Jun. 2015*

Courses: C++ Programming, Database Management(SQL), Accounting, Micro/Macroeconomics, Time Series, Financial Risk Management, Fixed Income Securities, Investment

University of California — Berkeley, CA

Exchange student in Economics Department, Oversea Exchange Scholarship — *Jan. 2014- May 2014*

Courses: Econometrics (PhD Level), Applied Econometrics and Public Policy, Topics in Economic Research

PROFESSIONAL EXPERIENCE

Ross School of Business | *Supervisor: Prof. Nejat Seyhun* — Ann Arbor, MI

Research Assistant — May 2016-Present

- Investigating commercial banks' daily trading records, proposing questions about missing or inaccurate values
- Collecting and organizing data from FactSet and SEC onto Excel spreadsheets
- Analyzing banks' transaction data concerning LIBOR rates and filtering the data with SAS

Southwest Securities Co., Ltd. — Jinan, China

Financial Analysis Assistant — Jul. 2014-Sept. 2014

- Assisted investment manager with daily industry information collection and analyzing macro financial data
- Engaged in IPO preparation work of enterprises and regular checks of their financial statements
- Drafted valuation report regarding SWOT analysis, financial status, management structure and potential risks of one listed company and the assessment of its absolute value by means of FCFF model & CAPM model

Huaxia Bank Co., Ltd. — Jinan, China

Summer Credit Analyst — Jun. 2013-Aug. 2013

- Collected and analyzed customer credit information by examining clients' financial statements, cash flow reports, invoices, leasing contracts and other supporting materials for institutional and retail sizes of loans
- Assisted senior professionals in evaluating client risk, setting credit limits, and putting collateral on loans

PROJECT EXPERIENCE

Pricing Spread Options by the Operator Splitting Method — Jun. 2016-Aug. 2016

- Derived Kirk's approximation for two-asset spread option based on Lie-Trotter operator splitting method and generalized into multi-asset spread option
- Improved accuracy of Kirk's approximation without compromising the efficiency by Strang operator splitting method

Machine Learning Algorithm to Forecast Stock Market Volatility — Mar. 2016-Apr. 2016

- Adopted recurrent algorithm to build Support Vector Regression (SVR) based GARCH model
- Applied the new model to predicate the volatility of S&P 500 Index and compared with traditional model in Python

The Application of Black-Litterman Model in Futures Portfolio — Jan. 2015-Jun. 2015

- Built EGARCH-M model of China Agriculture Futures Index (CAFI) and China Industry Futures Index (CIFI) based in R, and predicted the index volatility
- Applied Black-Litterman Asset Allocation Model to compute optimal futures portfolio weight based in Matlab

SOCIAL ACTIVITIES

Citibank Young Talent Program — Beijing, China

Group Leader — Jun. 2014

- Created wealth management plans based on clients' financial condition and risk aversion; hedged against the potential risks with high interest accounts, index funds, insurance and other financial instrument; won competition

SKILLS

Programming and data processing tools: Stata, Matlab, R, SQL, SPSS, Python, Bloomberg (with BMC certification)
Communication: Native in Mandarin; Fluent in English