Esther (Shuangning) Zhu

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EDUCATION

University of Michigan   Ann Arbor, MI

Master of Science in Quantitative Finance and Risk Management   *Sept. 2017 – Expected May 2018*

Bachelor of Science in Financial Mathematics   *Sept. 2015 – May 2017*

- GPA: **3.84/4.00**   James B. Angell Scholar and University Honors
- Courses: Financial Math, Stochastic Process, Linear Programming, Probability, Statistics, Computer Science

Beijing Foreign Studies University   Beijing, China

Double Major in Finance and English Literature   *Sept. 2012 – Jun. 2015*

- GPA: **3.62/4.00**   Global Times Scholarship (Top 5%)
- Courses: Financial Accounting, Merger and Acquisition, Financial Statement Analysis, International Finance

WORK EXPERIENCE

Stephen M. Ross School of Business   Ann Arbor, MI

Research Assistant   *Sept. 2017 – Present*
- Use Python Pandas and R to analyze 50-year data on economy in 10 countries, collected from Bloomberg
- Predict foreign exchange rate change in 1, 3 and 5 years and write analysis report
- Will write and revise algorithms in Python to optimize trading strategies

Chinalin Securities Co.   Beijing, China

Fixed Income Summer Intern   *Jul. 2017 – Aug. 2017*
- Modeled cash flow and bond structure of a $60M Asset Backed Securities(ABS)
- Finalized documentation of securitization, closing transaction 2 weeks ahead of schedule
- Conducted research on electric power industry that supported seniors to implement risk analytics
- Checked on financial statements and data files, contributing to collection of preliminary pool

Stephen M. Ross School of Business   Ann Arbor, MI

Research Assistant   *May 2017 – Jun. 2017*
- Assisted on the paper *"Estimating and Testing Dynamic Corporate Finance Models"*
- Revised a Monte Carlo study, using C++ and Python to make multiple simulations on Linux system

China Guangfa Bank   Beijing, China

Investment Analyst Intern   *Feb. 2015 – Mar. 2015*
- Segmented 700 customers in database, improving the quality of customer service
- Connected with more than 150 industrial clients and assisted them in the system update process

ADDITIONAL EXPERIENCE

Financial Research Commercialization   Ann Arbor, MI

Researcher and Modeler | Ross School of Business course   *Sept. 2017 – Present*
- Engaging with a start-up company which provides event-planning and crowd-gifting platform for Hispanic celebrations, helping the CEO to modify business model, predict future financials, and raise seed capitals

Multi-package Delivery Project   Ann Arbor, MI

Team member | Industrial and Operations Engineering course   *Sept. 2017 – Present*
- Use linear programming and mathematical models to optimize delivery decision for companies, e.g. Amazon

SKILLS

- **C++:** Experience designing, implementing, testing and debugging many large-scale projects independently
- **Python:** Wrote algorithms to model market risk and built Monte Carlo simulations of 3 stocks
- **Excel:** Applied financial functions such as VLookUp, Proficient with other MS Office applications