

# Esther (Shuangning) Zhu

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## EDUCATION

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### University of Michigan

Ann Arbor, MI

Master of Science in Quantitative Finance and Risk Management

Sept. 2017 – Expected Apr. 2018

Bachelor of Science in Financial Mathematics

Sept. 2015 – Apr. 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%)

## WORK EXPERIENCE

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### 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

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### Financial Research Commercialization

Ann Arbor, MI

Researcher and Modeler | Ross School of Business course

Sept. 2017 – Present

- Will engage with an early-stage entrepreneurial company and pitch to venture capital funds

### Enactus

Beijing, China

Team Leader | global nonprofit organization – Beijing Foreign Studies University chapter

Sept. 2012 – Jun. 2013

- Developed product strategy and coordinated on-campus trade shows, resulting in cost reduction

## SKILLS

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- **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