

# Esther (Shuangning) Zhu

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## EDUCATION

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### University of Michigan

*Master of Science in Quantitative Finance and Risk Management*

*Sept. 2017 — May 2018*

*Bachelor of Science in Financial Mathematics*

*Sept. 2015 — Apr. 2017*

• **GPA:** 3.84/4.00

**Honors/Awards:** James B. Angell Scholar and University Honors

• **Courses:** Financial Math, Stochastic Process, Numerical Analysis, Computer Science, Probability

### Beijing Foreign Studies University

*Major in Finance*

*Sept. 2012 — Jun. 2015*

• **GPA:** 3.62/4.00

**Honors/Awards:** Global Times Scholarship

## WORK EXPERIENCE

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### Chinalin Securities Co., Ltd.

*Beijing, China*

#### Fixed Income Summer Intern

*Jul. 2017 — Aug. 2017*

- Worked on various Asset Backed Securities(ABS) products with senior investment professionals
- Conducted research on electric power industry and participated in company level reviews of 4 energy providers in China that assisted seniors to implement risk analytics
- Analyzed financial statements, assessed the underlying assets and offered relevant information on the company's finances
- Drafted description of our core product and interpreted the risk control policy
- Created spreadsheets in Excel to analyze cash flow of \$10 million worth of assets that determined the actual dollar amount of interest paid to investors

### Stephen M. Ross School of Business

*University of Michigan*

#### Research Assistant

*May 2017 — Jul. 2017*

- Assisted on the paper "Estimating and Testing Dynamic Corporate Finance Models"
- Reviewed a Monte Carlo study of highly computationally intensive estimation techniques and used C++ and Python to make multiple simulations on Linux system

### China Guangfa Bank

*Beijing, China*

#### Investment Analyst Intern

*Feb. 2015 — Mar. 2015*

- Created database in financial operating system based on information of 700 clients and supported seniors to develop client-specific hedging strategies and to design tailored products
- Connected with more than 150 industrial clients and assisted them in the system update process

## EXTRACURRICULAR ACTIVITIES

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### Michigan Finance and Mathematics Society (MFAMS)

*Sept. 2016 — Apr. 2017*

### Women in Mathematics (WIM)

*Sept. 2016 — Apr. 2017*

### Enactus(a global nonprofit organization), Beijing Foreign Studies University

*Sept. 2012 — Jun. 2013*

- Built a new business model for a local organization, developed product strategy and go-to-market policies, coordinated on-campus trade shows, resulting in cost reduction and profit growth

### Student Government, Beijing Foreign Studies University

*Sept. 2012 — Jun. 2013*

- Served as the point of contact and provided information on the resources to more than 200 students and alumni
- Enhanced the online presence of newsletters through social media to inform students of the upcoming events

## SKILLS

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- **C++:** Experience designing, implementing, testing and debugging a large scale project independently
- **Python:** Basic knowledge and have reviewed a financial model written in Python
- **Excel:** Applied financial functions such as VLookup, Proficient with other MS Office applications
- **Matlab:** Performed Monte Carlo simulation to compute the expected value with application of Ito's Formula
- **Stata:** Created economic model based on indices such as Dow Jones and S&P 500 to make regression analysis