

Esther (Shuangning) Zhu

536 S Forest Ave. Apt 511, Ann Arbor, MI 48104 • (734) 757-3940 • shuangnz@umich.edu

EDUCATION

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 (Top 5%)

WORK EXPERIENCE

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 and assisted in finalizing terms of a \$60 million bond and underwriting a bond issuance
- Conducted company research on electric power industry that assisted seniors to implement risk analytics
- Analyzed financial statements, assessed underlying assets and summarized information on company's finances
- Drafted description of our core product and interpreted the risk control policy
- Created spreadsheets in Excel to analyze cash flow of assets worth \$80 million 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
- 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

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

SKILLS

- **C++:** Experience designing, implementing, testing and debugging a large scale project 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
- **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