

# Jiayi Zhang

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## EDUCATION

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### UNIVERSITY OF MICHIGAN

*Ann Arbor, MI*

#### Master of Science in Quantitative Finance and Risk Management

*September 2017-Expected May 2019*

*Course Highlights:* Advanced Financial Mathematics, Stochastic Analysis for Finance, Computational Finance, and Applied Statistics

### UNIVERSITY OF MINNESOTA, TWIN CITIES

*Minneapolis, MN*

#### Bachelor of Science in Mathematics-Actuarial Science Specialization GPA:3.71

*September 2014-May 2017*

*Course Highlights:* Partial Differential Equation, Complex Analysis, Numerical Analysis, Stochastic Process, Mathematics Modeling, Ordinary Differential Equation, Database System, Econometrics, Risk Management, Advanced Programming, and Probability Theory

## WORK EXPERIENCE

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### CHINA MERCHANTS SECURITIES

*Shenzhen, China*

#### Investment Bank Division Intern

*May 2016-August 2016*

- Use MATLAB to build models to predict future cash flows of 10 securitization projects for clients who are Big Four commercial banks, including the first credit card bad-asset securitization case worldwide, resulting in the models to be leading references for future securitization projects
- Enhanced interpersonal skills by participating in the due diligence of 5 securitization projects and facilitating cross-parties communication, and performed business model analysis to study the trend of the securities market and new derivatives

### CENTER FOR EDUCATIONAL INNOVATION-UNIVERSITY OF MINNESOTA

*Minneapolis, MN*

#### Undergraduate Teaching Assistant

*September 2015-May 2016*

- Reinforced leadership skills and English speaking skills by hosting discussion sections, and developed course plans contributing to student's better understanding of the materials

### CHINA SCIENCE & MERCHANTS VENTURE CAPITAL MANAGEMENT

*Shenzhen, China*

#### Private Equity Investment Analyst Intern

*June 2015-August 2015*

- Drafted a merging and restructuring scheme for a nonferrous metal company in Hong Kong (HKEx: 8306), including stock price calculation, equity distribution, and financing capital analysis
- Managed a financing project between a local company called Love & Love and Zoomlion Logistics, and analyzed risk and return of 5 investment projects predicting clients' probability of loss and securing clients' over \$80M investment

### AGRICULTURAL BANK OF CHINA

*Shenzhen, China*

#### Risk Management Intern

*May 2015-June 2015*

- Controlled bad-debt risk by evaluating clients' qualifications to secure a loan, including investigating their credit using internal credit reference system, and calculating their monthly installment payments under current interest rate with varying maturities

## PROJECTS

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### INVESTIGATION ON OPTIMAL BETTING STRATEGIES IN TEXAS HOLD'EM

*April 2015, MN*

- Designed a model to simulate Texas Hold'em from the real life by using MATLAB, randomizing pairs of cards to players and putting second players' betting strategies into a normal distribution
- Calculated probabilities that the first players would win with 78 selected starting hands, computed expected value for different betting amounts, and determined the maximum expected values resulting in solving the optimal betting strategies for each hands

## SKILLS AND CERTIFICATIONS

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**Programming skills:** MATLAB, C ++, Java, SQL, Clojure (functional programming languages)

**Certifications:** Exam Probability, Exam Financial Mathematics, and Exam MFE (Associate of the Society of Actuaries)