Jiayi Zhang

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EDUCATION

UNIVERSITY OF MICHIGAN *Ann Arbor, MI*

Master of Science in Quantitative Finance and Risk Management *September 2017-Expected December 2018*

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

CHINA MERCHANTS SECURITIES *Shenzhen, China*

Investment Bank Division Intern *May 2016-August 2016*

- Used 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 models became leading references for future securitization projects
- Enhanced interpersonal skills by participating in due diligence of 5 securitization projects and facilitating cross-party communication
- Performed business model analysis to study the trend of the securities market and new derivatives
- Drafted and improved prospectus and project specifications, declared material to Central Bank, and wrote daily reports

CHINA SCIENCE & MERCHANTS VENTURE CAPITAL MANAGEMENT *Shenzhen, China*

Private Equity Investment Analyst Intern *June 2015-August 2015*

- Drafted merging and restructuring scheme for nonferrous metal company in Hong Kong (HKEx: 8306), including importing data from Wind and Bloomberg into Excel spreadsheets, stock price calculation, equity distribution, and financing capital analysis
- Managed a financing project between Zoomlion Logistics and a local company 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
- Certified clients' identity documents through network verification from the People's Bank of China and clarified the financial status of clients' companies with reference to the Industry and Commerce Regulation Website

PROJECTS

INVESTIGATION ON OPTIMAL BETTING STRATEGIES IN TEXAS HOLD'EM *April 2015*

- Designed a model to simulate Texas Hold'em 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

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

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