# John Zhou

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## Education

**University of Michigan, Ann Arbor**
**Master of Science in Quantitative Finance and Risk Management** *09/2016-12/2017*

- Key courses: Discrete State Stochastic Processes, Advanced Financial Mathematics, Applied Statistics, Computational Finance
- GPA: 4.15/4.0

**East China University of Science and Technology (ECUST)**
**Master of Science program in Mathematics** *08/2015 – 07/2016*

- Key courses: Computational Statistics, Linear and nonlinear programming, Numerical Solution of Nonlinear System of Equations, Design and Analysis of Algorithms
- GPA: 3.52/4.0

**Bachelor of Science in Mathematics and Applied Mathematics** *08/2011 – 07/2015*

- Key courses: Measure Economics, Experiment of Financial Mathematics, Multivariable Statistics, Mathematical models, Data Mining
- GPA: 3.53/4.0

Excellent Bachelor Graduation Thesis (top 5%) 06/2015
Extraordinary Scholarship of Academic Excellence for Academic Year 2013 - 2014 (Rank: 01/65) 09/2014
Second-Prize Scholarship of Academic Excellence for Academic Year 2012 -2013 (Rank: 03/65) 09/2013

## Academic Experience

**Grader, *Discrete State Stochastic Process*(University of Michigan)** *01/2017 - 04/2017*

- Responsible for grading homeworks and quizzes and assisted students with problems involving Markov chains, exponential distribution and Poisson, Markov processes in continuous, martingales and Brownian motion.

**Teaching Assistant, *Advanced Mathematics Review Session* (ECUST)** *08/2015 – 06/2016*

- Responsible for recording students' attendance, grading assignments, evaluating students' regular performance, and giving instant feedback on students' learning status to course instructor, assisted students with problems involving definite and indefinite integral calculation, differential equations, analytic geometry, etc.

**Researcher, *Laboratory of Applied Mathematics*(ECUST)** *09/2014 – 06/2015*

- Joined in computer-aided drug design program and focused on Qualitative and Quantitative Toxicity Predictions of Chemical Pesticides in HoneyBee to predict the pesticide toxin in honey bees by using mathematical models
- Formed the research dataset by collecting the latest HB toxicity data from EPA, wrote iterative algorithms, and developed scripts in Matlab to obtain the desirable results
- Included research finding in graduation thesis, which was awarded Excellent Bachelor Graduation Thesis

## Professional Experience

**Intern, *Project Team of Bank of Communications, Teradata* (Shanghai)** *11/2014 – 03/2015*

- Completed one-month training to learn the Teradata Structured Query Language(SQL) and the Teradata database architecture, joined the Project Team of Bank of Communications with excellent training evaluation
- Amended codes of interconnecting tables using SQL and developed scripts according to the requirements, which required in-depth knowledge of the bank's database, including 10 themes of the database architecture
- Attended department meetings and translated the presentation PPT and the entire project introduction article

**Intern, *Operation Department, Bank of Montreal* (Shanghai)** *07/2014 – 09/2014*

- Dealt with and recorded relevant information of shipping and financial documents like commercial invoice, bill of lading, insurance policies, beneficiary's statements, checks, etc. for foreign trade customer companies
- Searched customers' bank statements information in bank database

## Extracurricular Experience

**Student Delegate, *Student Union of ECUST*** *09/2011 – 06/2013*

- Collected students' opinions, attended meetings in the student committee and wrote final reports, ensuring effective communication between students and school authority to improve students' campus life and academic environment
- Presented and implemented schemes like university umbrella renting system, low electricity warning bulletins, etc.

## Computer Skills

- Language: Python, SQL, Java Softwares: Matlab, SPSS, R

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