**Xxxxxx Xx**

School of Mathematical Sciences, Peking University

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## EDUCATION

**PEKING UNIVERSITY** Beijing, China 09/2014–present

*School of Mathematical Sciences*

* Major in Statistics and Probability, Overall GPA: **3.54/** 4; Minor in Finance, total GPA:**3.73**/4
* Programming & software: Python, Matlab, R; Latex, SPSS, Stata
* English Proficiency: TOEFL 105, GRE Verbal 160, Quantitative 170, Writing 4.0

*Main Course and Score*

Mathematical Analysis (I) /(II) 94/91 Geometry 90

Abstract Algebra 92 Ordinary Differential Equations 88.5

Theory of Functions of Complex Variables 94.5 Data Structure 88

Selected Topics in Mathematical Analysis II 96 Probability Theory 89

General Physics(2) 91 Mathematical Statistics 94

Applied Stochastic Processes 92 Statistical Learning 97.5

Mathematical Logic 96 Security Investment 89.5

*Awards and Honors*

Merit Student, Peking University 09/2014-present

Freshman Scholarship 09/2014

2nd Prize in Chinese Mathematical Olympiad 01/2014

No.1 in Chinese Girls' Mathematical Olympiad 08/2013

1st Prize in National High School Mathematics Competition 11/2013

## RESEARCH EXPERIENCE

**Studying the Topic Distribution of Articles Generated by LSTM** 08/2016-06/2017

*Independent Research, Supervised by Prof. Jinzhu Jia, Center for Statistical Science, Peking University*

* Mastered the theory of Latent Dirichlet Allocation(LDA) and the application of LDA in R and PYTHON
* Mastered the basic machine learning methods by finishing exercises of UFLDL Tutorial including the realization of

Multi-Layer Neural Networks and Convolutional Neural Network in MATLAB

* Mastered more complicated Long Short Term Model(LSTM) and its realization in TENSORFLOW
* Used LDA to study the topic distribution of articles generated by LSTM

**Application of Marked Point Process in High Frequency Data** 08/2017-10/2017

*Independent Research, Supervised by Prof. Zhengjun Zhang, Department of Statistics, University of Wisconsin at Madison*

* Mastered the basic theory of marked point process by reading relevant papers
* Reproduced the simulation result of Marked point process adjusted tail dependence analysis for high-frequency financial data and discussed with the original author Doctor Malinowski via email
* Analyzed the high frequency data of china stock with the similar method
* Applied the method to correct the index that measures the severity of influenza

## SELECTED COURSE PROJECT

**Travel Management System**

* Implemented single- plot-search by Floyd algorithm and optimized the algorithm for multi-plot-search
* Realized graphical user interface in Python

**Decide the Most Suitable City to Migrate in**

* Built a model based on the concept of clustering and fuzzy matrix
* Optimized the algorithm to reduce its time complexity
* Averaged the model with another factor analysis one and gave the final order

**Classification of Spam Emails**

* Implemented the classification of spam emails by gradient boosting, CART, MARS, random Forest
* Extracted features and evaluated the relative importance of variables

## EXTRACURRICULAR ACTIVITIES

Class 1 of Grade 2014, School of Mathematical Sciences, PKU *Vice monitor* 09/2014-present

Volleyball Team, School of Mathematical Sciences, PKU *Spiker*  09/2014-present

Student Union in the School of Mathematical Sciences, PKU *Minister* 04/2015- 03/2016