

Yufei Gao

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EDUCATION

University of Illinois at Urbana-Champaign	Champaign, IL
<i>Current student at Master of Science in Financial Engineering Program</i>	08.2017-12.2018
Beihang University (BUAA)	Beijing, China
<i>Bachelor of Science: Hua Loo-Keng Mathematics Class (founded by BUAA and CAS)</i>	09.2013-06.2017
<ul style="list-style-type: none">• Major: Mathematics and Applied Mathematics• GPA: 90.0/100 (3.85/4.0, Top 10%); Major GPA:3.89/4.0• Honors&Awards:<ul style="list-style-type: none">Excellency Prize of Hua Loo-Keng Talent Program in Mathematics (2017, Honored by CAS)Excellent Graduate of BUAA (2016, Top 15%)“Feng Ru Cup” Student Academic Scientific and Technological Works Competition (2016, Top 30% at BUAA)Mathematical Contest in Modeling (2015, Meritorious Winner, Top 9%)National Computer Rank Examination (2014, Grade 2, C programming language)	

ACADEMIC EXPERIENCE

The Applications of Sparse Polynomial Equations in Natural Sciences	06.2015-06.2017
<i>Provided an efficient method to solve sparse nonlinear polynomial equation groups in order to apply in natural sciences</i>	
<ul style="list-style-type: none">• Combined graph theory, matrix theory, Tarjan algorithms and Grobner basis theory• Programmed in this project by using the software “Maple”• Searched for cases of biological system from BioModels Data Base to test its effectiveness• Graduation thesis: <i>Solving Sparse Polynomial Systems</i>	
A Medicine Delivery System to Eradicate Ebola (Based on 2015 MCM Project)	02.2015-05.2015
<i>“Feng Ru Cup” Student Academic Scientific and Technological Works Competition</i>	
<ul style="list-style-type: none">• Built a model for features of Ebola based on SEIRS model;• Based on BP neural network to predict the effective contacts rate• Used Logistic growth model to describe the speed of manufacturing medicine and analyzed its rationality• Transferred the delivery system into a NLP problem to find the local optimal solution	

INTERNSHIP EXPERIENCE

National Bureau of Statistics	Suqian, China
<i>Data Analyst Intern, Survey Office at Suqian City, Jiangsu Province</i>	09.2016-10.2016
<ul style="list-style-type: none">• Read books to learn several statistical methods, such as Time Series Analysis, Regression Analysis• Assisted to carry out a statistical research of surveying the consumer price index (CPI) at Suqian• Did the collection of commodity prices in markets and audited the survey data and summarized the CPI data• Learnt to use R and Excel to analyze the data; Wrote the final report	
Huatai Securities Company Limited	Shanghai, China
<i>Quantitative Analyst Intern, Financial Derivatives Department</i>	07.2016-08.2016
<ul style="list-style-type: none">• Read the book “<i>Quantitative Investment</i>” written by Peng Ding and many other related SCI literatures; Knew the company’s key businesses;• Joined the project “Optimization and Analysis of the Stock Selection Strategy”; Made the trading strategy according to K-line patterns; Designed the quantitative stock selection strategy based on MACD indicator; Hedged the stock trading with futures; Wrote the final report• Used Wind Financial Terminal to collect data; Programmed on MATLAB; Tested strategies with historical data• Carried out the project “Stock Screening Based on Analysis of Industry Rankings” on my own	

LEADERSHIP&ACTIVITIES

Genius Plan (Main Sponsor: JD Capital)	Beijing, China
<i>Superintendent at BUAA</i>	08.2015-09.2015
<ul style="list-style-type: none">• Propagated a new investment pattern in talents (college students) and planed activities in Beihang University• Joined the summit meeting with delegates in other universities; learnt knowledge of financial investment	
Beihang University Model United Nations Association	Beijing, China
<i>Selected Member</i>	07.2013-06.2014
<ul style="list-style-type: none">• Joined the Model United Nations Conference at University of International Relations• Led a team to organize the 1st Model United Nations Conference in Changping District	
Other activities: Beihang Mathematical Modeling Club; Beihang Math Tutoring Centre; Beihang Soccer Club	

SKILL&INTERESTS

- Technical: C/C++, MATLAB, Maple, Python, Excel, R
- Interests: Basketball, Soccer, Tennis, Table Tennis, Badminton, Swimming