Jiaxun **Li**

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Education

XJTU(Xian Jiaotong University) *Shaanxi, China*

HONOR SCIENCE PROGRAM(MATHEMATICS) *Sep. 2020 - PRESENT*

- Major: Mathematics
- GPA: 4.21/4.30
- TOFEL: 105
- GRE: 333+4.0
- Core Courses: Mathematical Analysis: 100/95/99, Advanced Algebra and Analytic Geometry: 95/98, Modern Algebra: 99, Ordinary Differential Equations: 97, Real Analysis: 90, Probability Theory: 99, Topology: 97, Complex Analysis: 100, Information Theory: 98, Object-Oriented and Data Analysis(C): 100, Colllege Computer (C language): 99, Functional Analysis, Mathematical Statistics, Partial Differential Equation (The grades of these three courses have not come out)

Skills

Programming Matlab, Python, C/C++, C, LaTeX, R

Languages Chinese, English

Research Project

Scientific Research Training(Prof. Yanni Xiao) *Xian Jiaotong University*

ANALYSIS OF A STOCHASTIC SIR MODEL WITH MEDIA EFFECTS *Jul.2022-Dec.2022*

- Presented a stochastic SIR model with media effects. The uniqueness and the existence of a global positive solution were studied. The sufficient conditions of extinction and persistence of the disease were established. Numerical simulations were carried out to illustrate and supplement the analytic results.
- Learned knowledge in biomathematics, stochastic process and stochastic differential equations
- Improved ability for literature reading, problem solving, theoretical analysing and academic writing
- Submitting an article to an SCI journal as the first author

CCISTC Online Research Programme(Prof. Matthias Dörrzapf) *University of Cambridge*

A FURTHER MODIFICATION OF A REVISED B-S MODEL WITH BOUNDED UNDERLYING PRICE *Aug. 2022 - Nov.2022*

- A model developed for predicting European call option prices. After developing the non-arbitrage condition, the pricing formula is derived, and the proposition that our model extents the BS model was given. An empirical research was investigated to show our model is superior to Black-Scholes model in predicting option price.
- Learned basic knowledge in Finance, especially in quantitative risk management and option pricing
- Improved skills for literature reading, data analysis and academic writing
- Submitting an article to an EI conference as the first author

Extracurricular Activity

QianXuesen Honors College Student Union Publicity Department

MINISTER *Sep. 2020 - Jun. 2021*

- Improved communication skills and leadership
- Participate in organizing large-scale activities

Honors & Awards

2020	**3rd prize**, National English Competition for College Students	*Shaanxi, China*
2021	**2nd prize**, Asia and Pacific Mathematical Contest in Modeling	*Asia*
2021	**1st prize**, The Chinese Mathematics Competitions	*Shaanxi, China*
2021	**China National Scholarship(top 0.1%)**,	*China*
2022	**1st prize**, China Undergraduate Mathematical Contest in Modeling (MCM)	*Shaanxi, China*
2022	**China National Scholarship(top 0.1%)**,	*China*
2022	**Excellent student Model of Xi 'an Jiaotong University (only 10 people)**,	*Xi'an Jiaotong University*