

Shuqi Li

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Education

09/2021–Now	Renmin University of China	Artificial Intelligence	Ph.D. Candidate
- Research Interests: Natural Language Processing, Drug-Target Interaction, Protein-Protein Interaction, Financial Text Mining and Stock Prediction			
09/2019–07/2021	Beijing Jiaotong University	Statistics	M.S.
- Research Interests: Nonlinear Time Series Analysis, Entropy and Complexity of Nonlinear System			
09/2014–07/2018	Xi'an University of Technology	Applied Statistics	B.S.
- GPA : 4.49/5 (Ranked first in Statistics Department)			

Research Projects & Internship

06/2021–10/2021	Microsoft Asia Research Institute	Intern
· Drug-Target Interaction; Protein-Protein Interaction; Protein Pre-training.		
10/2020–04/2021	RealAI	Intern
· Reliability analysis and data cleaning of industrial data.		
· Anomaly detection of industrial data; Parameter optimization by supervised learning.		
06/2019–10/2019	Institute of automation, Chinese Academy of Sciences	Research student
· Research at the development of evolutionary game and game decision-making (Nash Equilibrium, Pareto Optimality); Exploit incomplete information game to improve the existing reinforcement learning algorithms (Temporal-Difference learning).		
09/2018–Now	Partial cross correlation and partial information transfer between nonstationary sequences and their applications	Co-Investigator
- Supported by National Natural Science Foundation of China (61673005)		
· Analyze the influence of time delay on the partial cross correlation and partial information transfer between signals, and establish a systematic model and optimization algorithm to calculate the cross correlation coefficient and the direction and intensity of partial information transfer.		
· My contribution: Explore accurate predictive algorithm in nonstationary sequences based on EEMD method and KNN model (published a paper in CNSNS, SCI Top Journal, JCR Q1, IF 4.115). ; Analyze the predictability of financial time series based on entropy and complexity (a paper is being submitted in Entropy).		
01/2017–07/2018	Evolutionary mechanism of gene diversity formation between <i>Cypripedium tibetae</i> and mycorrhizal fungi of the family <i>gloeosporioides</i>	Co-Investigator
- Supported by National Natural Science Foundation of China (31300366)		
· My contribution: Study the diversity and community structure of mycorrhizal fungi in different altitudes of <i>Cypripedium</i> species in the same habitat based on multiple regression model.		
04/2017–11/2019	An empirical study on the prevention mechanism of misjudged criminal cases from the perspective of evidence judgment	Co-Investigator
- Supported by National Social Science Foundation of China (16XFX010)		
· My contribution: Build a two-stage measurement model of sentencing probability based on Logistic model. To explore the influence of different sentencing circumstances on the judicial application of the limit commutation of stay of execution system.		

Publications

- **Shuqi Li** et.al. MIN: Multi-channel Interaction Network for Drug-Target Interaction with Structural Modeling. (Submitted)
- **Shuqi Li** et.al. PEN: Prediction-Explanation Network to Forecast Stock Price Movement with Better Explainability. (Submitted)
- **Shuqi Li** et.al. Multi-Memory Interaction Network for Multivariate Stock Price Movement Prediction. (Submitted)
- **Shuqi Li**, Aijing Lin*, and Xiaoming Liu. Fractional frequency hybrid model based on EEMD for financial time series forecasting. *Communications in Nonlinear Science and Numerical Simulation*, 105281, 2020. (SCI, Top Journal, JCR Q1, IF 4.115)
- **Shuqi Li**, Aijing Lin*. Exploring the Relationship among Predictability, Prediction Accuracy and Data Frequency of Financial Time Series. *Entropy*, 2020, 22(12): 1381.
- Xiaoming Liu, **Shuqi Li**, and Aijing Lin*. Classification of International Stock Markets through MDS based on Hurst-surface Distance. *Physica A: Statistical Mechanics and its Applications*, 2021, 566: 125585
- Min Chen* (Supervisor), **Shuqi Li**, and Wenge Guang. A Study on the judicial Application of Restricted Mitigation of Death Penalty with Two- year's suspension based on the logistic regression analysis. *Statistics & Information Forum*, 34(11):116-121, 2019. (Chinese Core Journal)
- Lingling Xu*, Mingyang Zhao, Jing Li, **Shuqi Li**, Lijun Gao, Yan Zhang, and Jing Xu. Correlation between vertical distribution of three *Cypripedium* species and composition of orchid mycorrhizal fungal community. *Mycosystema*, 38(06):811-821, 2019. (Chinese Core Journal)

Awards

Third prize of CUMCM (China University Students Statistical Modeling Contest)	2019
“H” prize of MCM (The Mathematical Contest in Modeling)	2017
First prize of CUMCM in Shaanxi Province	2016

Honors

11th outstanding achievements in philosophy and Social Sciences of Xi'an	2020
Outstanding Student Cadres	2020
First Prize Scholarship (for three years)	2018–2020
Merit Student	2019
Outstanding communist Youth League Cadres	2019
Valedictorian	2018
National Scholarship (Only one prize winner out of about 800 students in the school)	2017
Excellent Student Leaders	2017
Pacemaker to Merit Student (for two years)	2014–2015

Skills

English: CET6, CET4 (Have ability to work bilingually), TOEFL 80

Computer skills: Python (Pytorch), Matlab, R, SPSS, Latex

Self-assessment

Hard-working with good ability of learning, logical thinking and academic capability; With good communication and teamwork skills, willing and able to cooperate with colleagues.