JUNBIAO LU

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EDUCATION

Beijing University of Posts and Telecommunications (BUPT) Aug 2016 - Jul 2020
B.S. in Applied Physics
GPA: 90/100 (Rank: 2/55), Major GPA: 93/100
Courses: Mathematic Analysis 95/100, Methods of Mathematical Physics 92/100, Probability Theory and Mathematical Statistics 96/100, Thermodynamics and Statistical Physics 89/100

Beijing University of Posts and Telecommunications Sep 2021 - present
M.S. in Physics
Courses: Real Analysis 99/100, Nonlinear Functional Analysis 97/100, Stochastic Process 93/100, Stochastic Anylysis 96/100, Applied PDE 92/100, Advanced Econometrics 84/100

RESEARCH EXPERIENCE

School of Science, BUPT Sept 2019 - Sept 2020
Computing growth rates of random matrix products via generating functions (second author)

· Calculation the exponent of multiple random matrices with discrete and continuous distributions
· Validity teste of generating the exponent using invariant polynomial derived from the original method
· Application to the calculation of Ising model's free energy in random on-site field

School of Science, BUPT May 2023 - present
Bankruptcy mechanism promotes cooperation in coevolutionary games(first author)

· Conceptualization of evolutionary game with bankruptcy mechanism
· Model Investigation using Monte Carlo simulation
· Data visualization and analysis
· Original draft writing and review

STANDARD TEST

GRE General: V157 Q168 AW3.0

GRE Subject Physics: 900 (83%)

TOEFL(ibt): 110 (R29 L30 S26 W25)

SKILLS

Computer Skill: Python, Matlab, Origin, LaTeX

Languages: Fluent English, Native Chinese

MISCELLANEOUS

I was admitted to the physics PhD program in University of Maryland (which has one of the strongest physics research center in US) after I graduated from college. I didn't make it due to visa issue. Then I entered the graduate school of my Alma Mater without examination for my outstanding performance as an undergraduate.