Yaoxiang Nie

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EDUCATION

University of Rochester 06/2018 – present
Ph.D., Operations Management, Simon Business School
Overall GPA: 3.6/4.0

University of Southern California 08/2016 – 05/2018
Master of Financial Engineering, Viterbi School of Engineering
Overall GPA: 3.7/4.0

Henan University 09/2012 – 07/2016
Bachelor of Economics, School of Economics
Overall GPA: 3.8/4.0

Working Paper

You, Chen**, Yaoxiang Nie.** (2018). *Value at Risk when covariance is misspecified, Proceedings for IEOM conference, DC Washington.*

Yaoxiang Nie, Phillip Lederer. (2021). Dynamic control of a service system with adjustment cost, working paper.

Yaoxiang Nie, Phillip Lederer. (2021). Competition in service system with adjustment cost, working paper.

RESEARCH INTERESTS

Service Management, Supply Chain Management, Healthcare Management, Stochastic Control

RESEARCH EXPERIENCE

Service Management with Adjustment Cost 06/2020-present
Supervised by Professor Phillip J Lederer

- Derived the optimal operation strategy of a service firm in both one-period setting and infinite period setting with adjustment cost

Value at Risk When Covariance Is Misspecified, University of Southern California 03/2018- 06/2018

- Evaluated the impact of covariance matrix misspecification on a portfolio's value at risk by Monte Carlo simulation
- Compared different risk-based portfolio allocations and covariance estimation

Operations of Health Information Technology, Kenan-Flagler Business School 05/2017– 12/2017

- Conducted literature review on the EMR system and Mergers & Acquisitions of Nursing
- Analyzed and cleaned the data using Stata

Empirical Analysis of the Efficiency of Chinese Stock Market, Henan University 07/2015– 01/2016

- Showed that Augmented Dicky-Fuller Unit Root test is appropriate for testing the efficiency of Chinese stock market
- Analyzed the stock market data using R
- Concluded that Chinese stock market is weak form efficiency

Deposit Insurance Pricing Based on Black-Scholes Equation, Henan University 03/2015- 06/2015

- Derived a BS formula with random interest rate and non-constant volatility
- Modeled deposit insurance as options with the modified BS formula
- Established a pricing model for deposit insurance based on this modified Model

PROFESSIONAL EXPERIENCE

Simon Business School, University of Rochester 07/2021- 08/2021
Instructor for MSM 503 Optimization

- Teach incoming PhD students' convex analysis
- Covered topics include convex optimization, real analysis and some functional analysis

Simon Business School, University of Rochester 01/2021- 03/2021
Teaching Assistant for OMG 402 Operations Management

- Graded graduate students' homework and exams
- Tutored students in solving quantitative problems in operations

Simon Business School, University of Rochester 08/2019- 10/2019
Teaching Assistant for GBA 462 Statistics

- Graded graduate students' homework and exams
- Tutored students in using R to solve statistics problems in business

Simon Business School, University of Rochester 06/2019- 08/2019
Tutor for BRN 481 Capital Markets and STR 401 Managerial Economics

- Taught EMBA student investment theory and fundamentals of capital market
- Taught MBA student microeconomics theory

Department of Industrial & System Engineering, University of Southern California 08/2017- 06/2018
Teaching Assistant for ISE 563 Financial Engineering

- Graded graduate students' homework and exams
- Tutored students in financial engineering theory and R programming

ACE Manager, BNP PARIBAS 03/2013– 04/2013

- Led and instructed a team of three people
- Applied regression analysis on the data processing, analyzed financial statements and ways of fund raising, and calculated WACC

AWARDS & HONORS

Scholarship from Simon Business School
First Prize in China Undergraduate Mathematical Contest in Modeling, Henan Division
Scholarship of Academic Excellency & Outstanding Students, Henan University (top 15%)
Honorable Mention in Mathematical Contest in Modeling
Outstanding Volunteer, Youth Volunteers Association

SKILLS

Computer Skill: R, Python, MATLAB, Stata
Language Skill: English (Fluent), Chinese (Native)