YONGYI GUO

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Personal website \diamond Google scholar profile

EDUCATION

PhD Candidate, Princeton University

September 2016 - Present Advisor: Prof. Jianging Fan

Department of Operations Research and Financial Engineering

Overall GPA: 3.97

September 2012 - July 2016

Bachelor of science, Peking University

School of Mathematical Sciences Overall GPA: 3.88 (Rank: 2/180)

PUBLICATIONS AND PREPRINTS

Policy Optimization Using Semiparametric Models for Contextual Dynamic Pricing

Jianqing Fan, Yongyi Guo, Maxine Yu Submitted.

Machine Learning for Variance Reduction in Online Experiments

Yongyi Guo, Dominic Coey, Mikael Konutgan, Wenting Li, Chris Schoener, Matt Goldman Conference on Neural Information Processing Systems, 2021

Best subset selection is robust against design dependence

Jianqing Fan, Yongyi Guo, Ziwei Zhu Submitted.

Communication-Efficient Accurate Statistical Estimation

Jianqing Fan, Yongyi Guo, Kaizheng Wang Journal of the American Statistical Association 1–11. (Online)

Adaptive Huber Regression on Markov Dependent Data

Jianqing Fan, Yongyi Guo, Bai Jiang Stochastic Processes and their Applications, to appear.

Stochastic Robustness and Relative Stability of Multiple Pathways in Biological Networks

Yongyi Guo, Zhiyi You, Min Qian, Hao Ge

Science China Mathematics 2017, 47:1831 – 1852. (Winner of Excellent Paper Award)

ONGOING PROJECTS

Near Optimal Structured Contextual Dynamic Pricing

Joint work with Prof. Jianging Fan and Maxine Yu

RESEARCH PRESENTATIONS

Machine Learning for Variance Reduction in Online Experiment 2020 Conference on Digital Experimentation (CODE) @ MIT	November 202
WARDS AND HONORS	
First Place in Citadel Philadelphia Datathon	201
Gordon-Wu Fellowship (Princeton University) For top 3% graduate students	201
P. L. Hsu. gold medal in Shing Tung Yau College Student Math (In statistics and probability)	nematical Contests 201
National Scholarship (Ministry of Education of China) For top 1% college students	2013, 201
Silver medal in Chinese Mathematical Olympiad	201
EACHING EXPERIENCE	
ORF525: Statistical Foundations of Data Science Assistant in Instruction (Instructor: Prof. Jianqing Fan)	Spring 202
ORF309-EGR309: Probability and Stochastic Systems Assistant in Instruction (Instructor: Prof. Ramon van Handel)	Spring 2019, Spring 202
ORF405: Regression and Applied Time Series Assistant in Instruction (Instructor: Prof. Ludovic Tangpi)	Fall 2019, Fall 202
ORF411: Sequential Decision Analytics and Modeling Assistant in Instruction (Instructor: Prof. Warren Powell)	Fall 201
ORF245-EGR245: Fundamentals of Statistics Assistant in Instruction (Instructor: Prof. Jianqing Fan)	Fall 2017, Spring 201
VORK EXPERIENCE	
Facebook Research (Core Data Science) Research intern	June 2020 - August 202
Susquehanna International Group LLP Quantitative research intern	June 2019 - August 201

Policy Optimization Using Semiparametric Models for Contextual Dynamic Pricing

October 2021

Cornell ORIE Young Researchers Workshop (poster presentation)