Chaoyi Zhao 赵朝熠

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Research Interests

Investment Theory: Factor investing, Green investing
Actuarial Science: Interest rate curve, Copula theory

Education

Peking University, School of Mathematical Sciences — Beijing, China
Ph.D. in Statistics — Sep 2019 – Jan 2024
- Advisor: Prof. Lan Wu
- Thesis: Stochastic Models and Statistical Analysis for High-dimensional Multi-factor Models and Induced Order Statistics (in Chinese)

Peking University, School of Mathematical Sciences — Beijing, China
B.S. in Mathematics and Applied Mathematics — Sep 2015 – Jul 2019

Publications

Investment Theory

1. Measuring and Optimizing the Risk and Reward of Green Portfolios
   Andrew W. Lo, Ruixun Zhang, and Chaoyi Zhao.
   The Journal of Impact and ESG Investing, 3(2), 55-93, 2022.
   Winner of the S&P Global Academic ESG Research Award.
2. Optimal Impact Portfolios with General Dependence and Marginals
   Andrew W. Lo, Lan Wu, Ruixun Zhang, and Chaoyi Zhao.
   Operations Research, forthcoming.

Actuarial Science

3. Construct Smith-Wilson Risk-Free Interest Rate Curves with Endogenous and Positive Ultimate Forward Rates
   Chaoyi Zhao, Zijian Jia, and Lan Wu.
   Insurance: Mathematics and Economics, 114: 156–175, 2024.

Teaching Experience

Teaching assistant experience at Peking University:

Quantitative Trading — Fall 2020, 2022
Elective for Graduate and Senior Undergraduate Students.

Practice for Fixed Income Securities — Fall 2021, 2022
Elective for Graduate and Senior Undergraduate Students.

Theory and Practice for Futures and Other Derivatives — Spring 2022
Elective for Graduate and Senior Undergraduate Students.

Mathematical Analysis III (Including Exercise Class) — Fall 2021
Core Class for Undergraduate Students.

Mathematical Analysis II (Including Exercise Class) — Spring 2021
Core Class for Undergraduate Students.

Risk Management and Financial Regulation — Spring 2021
Core Class for Graduate Students.

Exercise Class for Probability and Statistics — Spring 2020

	Elective for Undergraduate Students.	
	Introduction to Financial Mathematics	Fall 2019
	Core Class for Undergraduate Students.	
Honors	Beijing Outstanding Graduate, Peking University Excellent Graduate	2019, 2024
	Merit Student (Peking University)	2016, 2020 – 2023
	S&P Global Academic ESG Research Award	2022
	The Student of The Year (Peking University)	2018
	Merit Student Pacesetter (Peking University)	2018
	Beijing Merit Student	2018
	Excellent Student Leader (Peking University)	2017
Skills	**Languages**: Chinese, English	
	Hobbies: Swimming, Ukulele	