FENGYI YUAN

CONTACT INFORMATION

Address:	Department of Mathematical Sciences Tsinghua University Beijing, China 100084
Telephone:	(+86)130-5123-0311; (+852)4623-6542
E-mail:	yfy19@mails.tsinghua.edu.cn
Personal Website:	https://sites.google.com/view/fengyiyuan/homepage

EDUCATION

Tsinghua University August 2019 ∼ present
Ph.D. candidate in Mathematics
Supervisor: Prof. Zongxia Liang, Tsinghua University

Tsinghua University August 2015 ∼ July 2019
B.Sc. in Mathematics & Applied Mathematics
B.Sc. in Economics (a Secondary Degree)

EMPLOYMENT

The Hong Kong Polytechnic University July 2023 ∼ present
Research Assistant
Mentor: Prof. Xiang Yu, The Hong Kong Polytechnic University

PUBLICATIONS AND WORKING PAPERS

- Lin He, Zongxia Liang and **Fengyi Yuan**. Optimal DB-PAYGO pension management towards a habitual contribution rate. ***Insurance Mathematics and Economics***, 94(3): 2020.
- Zongxia Liang and **Fengyi Yuan**. Weak equilibria for time-inconsistent control: with applications to investment-withdrawal decisions. ***Mathematical Finance***, 33(3): 2023.
- Zongxia Liang, Xiaodong Luo and **Fengyi Yuan**. Consumption-investment decisions with endogenous reference point and drawdown constraint. ***Mathematics and Financial Economics***, 17: 2023.
- Zongxia Liang and **Fengyi Yuan**. Equilibrium master equations for time-inconsistent problems with distribution dependent rewards. Preprint, https://doi.org/10.48550/arXiv.2112.14462.
- Zongxia Liang, Xiaodong Luo and **Fengyi Yuan**. Equilibria for time-inconsistent singular control problems. Preprint, https://doi.org/10.48550/arXiv.2310.09198.
- Xiang Yu and **Fengyi Yuan**. Time-inconsistent mean-field stopping problems: A regularized equilibrium approach. Preprint, https://doi.org/10.48550/arXiv.2311.00381.
- Zongxia Liang, Jianming Xia and **Fengyi Yuan**. Dynamic portfolio selection for nonlinear law-dependent preferences. Preprint, https://arxiv.org/abs/2311.06745.

ACADEMIC PRESENTATIONS

- **The 10th Risk Management and Actuarial Forum**,
  Renmin University of China, Beijing, China, November 2019.

- **The 6th Asian Quantitative Finance Seminar**,
  National University of Singapore, Online, January 2021.
- **The 6th PKU-NUS Annual International Conference on Quantitative Finance and Economics**,
  Peking University & National University of Singapore, Online, May 2022.
- **The Mathematical Finance Series Seminars**,
  Peking University, Online, October 27th, 2022.

EXPERIENCES

- **Student Affairs Assistant of DMS, THU**, 2019~2021.
- **Teaching Assistant for:** Functional Analysis (Fall 2020), Stochastic Analysis (Fall 2021), Probability Theory (Spring 2022).
- **Academic Assistant of Xingjian Colleage, THU**, Spring 2021.

AWARDS

- **National Scholarship for Graduate Students**. Ministry of Education, China, 2020& 2023.
- **Mr. TANG Lixin Scholarship**. Tsinghua University, 2021.
- **THU Postgraduate Excellency Scholarship Second Price**. Tsinghua University, 2022.
- **THU Excellent TA Awards**. Tsinghua University, 2021&2022.