Jingjie Zhang

Contact Information

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Research Interests

Mathematical finance, financial economics, stochastic control, game theory, FinTech.

Education

University of Michigan, Ann Arbor, Michigan, USA
Ph.D., Applied and Interdisciplinary Mathematics, August 2021.

- Co-advisors: Prof. Erhan Bayraktar (Mathematics), Prof. Indrajit Mitra (Finance).

University of Science and Technology of China, Hefei, Anhui, P.R.China
B.S., School of the Gifted Young, Mathematics and Applied Mathematics, June 2016.

Publications and Preprints

- *Diffusions on Graph as Time Changed Multi-parameter Processes*, Erhan Bayraktar, Jingjie Zhangn, and Xin Zhang. Working paper, 2022. [arXiv].
- *Countercyclical Unemployment Benefits: General Equilibrium Analysis of Transition Dynamics*, Erhan Bayraktar, Indrajit Mitra, and Jingjie Zhang. Working paper, 2021. [SSRN].
- *Equilibrium concepts for time-inconsistent stopping problems in continuous time*, Erhan Bayraktar, Jingjie Zhang, and Zhou Zhou. **Mathematical Finance**, 2020; 1-23. [SSRN] [Article].
- *Time Consistent Stopping for the Mean-Standard Deviation Problem — the Discrete Time Case*, Erhan Bayraktar, Jingjie Zhang, and Zhou Zhou. **SIAM Journal on Financial Mathematics**, 10(3), 667-697, 2019. [SSRN] [Article].

Invited Talks

Optimal Stopping and Free Boundary Problems, University of Leeds, UK, January 15, 2020.
Mean Field Games and Related Topics, Levico Terme, Italy, September 10, 2019.
Financial/Actuarial Mathematics Seminar, University of Michigan, March 27, 2018.

Selected Awards

Rackham Conference Travel Grant Award, University of Michigan, 2020.
Graduate Departmental Scholarship, University of Michigan, 2017-2019.
Outstanding Undergraduate Thesis Award, University of Science and Technology of China, 2016.
Outstanding Student Scholarship, University of Science and Technology of China, 2012-2015.

Teaching Experience

University of International Business and Economics
◇ Programming in Python (IFI102-03, IFI102-04), Spring 2022.
University of Michigan
◇ Stochastic Analysis for Finance (Math 506), Winter 2021. (TA)
◇ Computational Finance (Math 623), Fall 2018, Fall 2020. (TA)
◇ Financial Mathematics II (Math 574), Winter 2018. (TA)
◇ Discrete State Stochastic Processes (Math 526/Stats 526), Fall 2017, Fall 2019. (TA)
◇ Calculus I (Math 115), Winter 2017, Winter 2019.
◇ Pre-Calculus (Math 105), Fall 2016.

Work Experience

Manager intern - Credit & Fraud Risk at American Express, July 2020 - August 2020.

Skills

Programming: Matlab, Python, C, Mathematica, R, LaTeX, Julia.
Language: English (fluent), Mandarin (native).