CONG QIN 秦 聪

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EDUCATION

Ph.D., Financial Mathematics, Soochow University, China — *Dec. 2014*
Advisor: Prof. Wanghui Yu

Joint Ph.D. in Financial Mathematics, University of Pittsburgh, USA — *Sep. 2012 - May. 2014*
Advisor: Prof. Xinfu Chen

B.Sc., Applied Mathematics, Soochow University, China — *Jun. 2009*

ACADEMIC APPOINTMENTS

Center for Financial Engineering, Soochow University — Suzhou, Jiangsu, China
Associate Professor — *Aug. 2020 - Now*

Center for Financial Engineering, Soochow University — Suzhou, Jiangsu, China
Lecturer — *Mar. 2018 - Jul. 2020*

Risk Management Institute, National University of Singapore — Singapore
Postdoc (supervised by Prof. Min Dai and Prof. Steven Kou) — *Jan. 2015 - Feb. 2018*

RESEARCH INTEREST

Financial Engineering, Fintech, Behavioral Finance, Portfolio Selection

WORKING PAPERS

1. Exhaustible Resources with Production Adjustment Costs: Spot and Futures Prices (with Min Dai, and Steven Kou)
   ESAM2018, CFAM2019, FERM2019 Best Paper Award
   https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3459830
2. From Hotelling to Nakamoto: The Economic Meaning of Bitcoin Mining (with Min Dai, Wei Jiang, and Steven Kou)
   INFORMS2019, AQFC2020, CFAM2020, Tokenomics Conference2020,
   https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3780858
3. Portfolio Selection with a kth-to-default Credit-Linked Note (with Kangquan Zhi)
   https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4607628
4. A Continuous-Exercise Model for American Call Options with Hedging Constraints (with Xinfu Chen, Xin Lai, and Wanghui Yu)
   https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2757541

5. Optimal Switching with Realization Utility (with Yi Ding, and Xiong Xiong), draft forthcoming
6. Realization Utility and Rolling Mental Account (with Jing Xu), in progress
7. Periodic Evaluation with Non-Concave Utility Function (Chen Yang, and Harry Zheng), in progress
8. Miners in Tokenomics: Dynamic Adoption, Distribution, and Valuation (with Wei Jiang), in progress

PUBLICATIONS IN MATHEMATICAL FINANCE/ECONOMICS

[10] Dynamic Trading with Realization Utility, **Journal of Finance**, *forthcoming* (with Min Dai, and Neng Wang)

[9] Asymptotic Analysis of Long-Term Investment with Two Illiquid and Correlated Assets, **Mathematical Finance**, 2022, 32(4): 1133–1169 (with Xinfu Chen, Min Dai, and Wei Jiang)

[8] Realization Utility with Path-Dependent Reference Points, **SIAM Journal on Financial Mathematics**, 2022, 13(3):1063–1111 (with Linghui Kong, and Xingye Yue)

[7] A Pricing Model of Airbag Options with Discrete Monitoring, **Acta Mathematicae Applicatae Sinica, English Series**, *forthcoming* (with Min Hu, Shuiyi Hu, and Fan Zhou)

[6] A New Weak Solution to an Optimal Stopping Problem, **Discrete and Continuous Dynamical Systems-Series B**, 2020, 25(12): 4823–4837 (with Xinfu Chen)

[5] On Balanced Growth Path Solutions of a Knowledge Diffusion and Growth Model, **SIAM Journal on Financial Mathematics**, 2019, 10(1): 130–155 (with Xinfu Chen)

[4] Asymptotic Behavior of Optimal Exercise Strategy for a Small Number of Executive Stock Options, **Journal of Mathematical Analysis and Applications**, 2019, 472(1): 1253–1276 (with Xinfu Chen, Xin Lai, and Wanghui Yu)

[3] A Variational Inequality Arising from Optimal Exercise Perpetual Executive Stock Options, **European Journal of Applied Mathematics**, 2018, 29(1): 55–77 (with Xinfu Chen, Xin Lai, and Wanghui Yu)

[2] Regularity of Free Boundary Arising from Optimal Exercise of Perpetual Executive Stock Options, **Interfaces and Free Boundaries**, 2015, 17(1): 69–92 (with Xinfu Chen, Xin Lai, and Wanghui Yu)

[1] Mathematical Analysis of a Variational Inequality Modeling Perpetual Executive Stock Options, **European Journal of Applied Mathematics**, 2015, 26(2): 193–213 (with Xin Lai, Xinfu Chen, Mingxin Wang, and Wanghui Yu)

OTHER PUBLICATIONS

[4] Dynamics of Spike in a Keller-Segel's Minimal Chemotaxis Model, **Discrete and Continuous Dynamical Systems-Series A**, 2017, 37(2): 1109 –1127 (with Xinfu Chen, Jianghao Hao, Xin Lai, and Yajing Zhang)

[3] Spectral Analysis for Stability of Bubble Steady States of a Keller-Segel's Minimal Chemotaxis Model, **Journal of Mathematical Analysis and Applications**, 2017, 446(1): 1105–1132 (with Xinfu Chen, Jianghao Hao, Xin Lai, and Yajing Zhang)

[2] Existence, Uniqueness, and Stability of Bubble Solutions of a Chemotaxis Model, **Discrete and Continuous Dynamical Systems-Series A**, 2016, 36(2): 805–832 (with Xinfu Chen, Xin Lai, Mingxin Wang, and Yajing Zhang)

[1] An Eigenvalue Problem Arising from Spiky Steady States of a Minimal Chemotaxis Model, **Journal of Mathematical Analysis and Applications**, 2014, 420(1): 684–704 (with Xinfu Chen, Jianghao Hao, Xin Lai, and Yajing Zhang)

AWARDS AND GRANTS

- Distinguished Young Scholar of Soochow University, *2018*
- Best Young Scholar Paper Award, Financial Engineering and Financial Risk Management, *2019*
- Suzhou Block Chains Technology and Industry Association Expert Think Tank, *2021*
- PI, National Science Foundation of China (Youth Program 11901416), *Jan. 2020 - Dec. 2022*
- PI, National Science Foundation of Jiangsu Province (Youth Program BK20190812), *Jul. 2019 - Jun. 2022*
- PI, Natural Science Foundation for Universities in Jiangsu Province (19KJD100005), *Jul. 2019 - Jun. 2021*
- PI, Soochow University excellent graduate teaching materials cultivation project, *Aug. 2023 - Dec. 2025*

PROFESSIONAL SERVICES

- Board Member of the following Academic Community:

  (1) *Financial Engineering and Financial Risk Management Branch of China Operations Research Society,*
  (2) *Quantitative Finance and Insurance Branch, China Research Association of Selective Law and Economic Mathematics*

- Referee for Academic Journals:

  Mathematical Finance, *SIAM Journal on Financial Mathematics*, *Journal of Economic Dynamics & Control*, *Mathematics of Operations Research*

SELECTED PRESENTATIONS

- 2023 36th Australasian Finance and Banking Conference
  Sydney, Australia — *Dec. 13 - 15, 2023*
- 2023 Recent Advances on Quantitative Finance
  Hong Kong Polytechnic University, Hong Kong, China — *Aug. 27 - 30, 2023*
- 2023 Annual conference of Quantitative Finance and Insurance
  Zhongnan University of Economics and Law, Wuhan, China — *May. 26 - 28, 2023*
- 2022 Annual Conference of Financial Engineering and Financial Risk Management
  Heibei Normal University, Shijiazhuang, China — *Dec. 10 - 11, 2022*
- CSIAM 2nd Symposium on Financial Mathematics with Financial Engineering and Actuarial Insurance
  Soochow University, Suzhou, China — *Nov. 12 - 13, 2022*
- The 19th Chinese Finance Annual Meeting
  Shanghai Jiao Tong University, Shanghai, China — *Oct. 29 - 30, 2022*
- 2022 China International Conference in Finance
  online — *Jul. 6 - 8, 2022*
- The 11th World Congress of Bachelier Finance Society
  Chinese University of Hong Kong, New York, USA — *Jue. 13 - 17, 2022*

- The 18th CSIAM Annual Meeting
  Changsha, China *Oct. 29 - Nov. 1, 2020*
- The 11th ORSC Annual Meeting
  Hefei, China *Oct. 15 - 18, 2020*
- The 16th Chinese Finance Annual Meeting
  Zhejiang University, Hangzhou, China *Oct. 25 - 27, 2019*
- 2019 Annual Conference of Financial Engineering and Financial Risk Management
  Shanghai University of Finance and Economics, Shanghai, China *Aug. 29 - 30, 2019*
- Quantitative Finance: Workshop 1 on Stochastic Control in Finance
  National University of Singapore, Singapore *Jul. 22 - 26, 2019*
- 2019 International Conference on FinTech
  Shanghai Advanced Institute of Finance, Shanghai, China *Jun. 10 - 11, 2019*
- 2018 Econometric Society Australasian Meeting
  Auckland University of Technology, Auckland, New Zealand *Jul. 1 - 4, 2018*
- The Second PKU-NUS Annual International Conference on Quantitative Finance and Economics
  Suzhou, China *May. 20 & 21, 2017*
- 2017 Workshop on Mathematical Finance and Financial Data Processing
  Qufu Normal University, Qufu, China *Mar. 31 & Apr. 1, 2017*
- The 5th NUS Workshop on Risk and Regulation
  National University of Singapore, Singapore *Jan. 5 & 6, 2017*
- The 9th World Congress of Bachelier Finance Society
  Manhattan, New York, USA *Jul. 15 - 19, 2016*
- Berlin-Princeton-Singapore Workshop on Quantitative Finance
  Princeton University, Princeton, USA *Jul. 12 & 13, 2016*
- The 5th Berlin Workshop on Mathematical Finance for Young Researchers
  Humbolt-Universität zu Berlin, Berlin, Germany *Jun. 1 - 4, 2016*
- The First PKU–NUS Annual International Conference on Quantitative Finance and Economics
  Peking University HSBC Business School, Shenzhen, China *May. 7 & 8, 2016*
- The 4th NUS Workshop on Risk and Regulation
  National University of Singapore, Singapore *Jan. 7 & 8, 2016*
- The 3rd NUS Workshop on Risk and Regulation
  National University of Singapore, Singapore *Jan. 8 & 9, 2015*

TEACHING

- Undergraduate
  - Stochastic Processes (2021), *Soochow University*
  - Principles of Financial Engineering (2023), *Soochow University*
- Graduate
  - Principles of Financial Engineering (2020, 2021, 2022, 2023), *Soochow University*

- Case Studies in Financial Engineering (2020, 2021, 2022), *Soochow University*
- Real Options (2021, 2022, 2023), *Soochow University*

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