Qiuqi Wang

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Education

Ph.D. Candidate in Actuarial Science, University of Waterloo

09/2019 - present

- Supervisor: Ruodu Wang

M.Phil. Mathematics, Hong Kong University of Science and Technology

07/2019

- Thesis: "Real Option Signaling Games under Asymmetric Information and Finite Option Life"
- Supervisor: Yue Kuen Kwok
- GPA: 4.00/4.30

B.S. Mathematics and Economics, Hong Kong University of Science and Technology

07/2017

- Minor: Information Technology

- GPA: 3.61/4.30 (First Class Honor)

International Exchange Student, Technical University of Munich

04/2016 - 09/2016

Research Interests

Actuarial Science; Quantitative Risk Management; Operations Research; Financial Engineering; Game Theory

Publications and Manuscripts

- [1] Han, X., Wang, Q., Wang, R. and Xia, J. (2021). Cash-subadditive risk measures without quasi-convexity. Submitted. arXiv: https://arxiv.org/abs/2110.12198#.
- [2] Pesenti, S., Wang, Q. and Wang, R. (2021). Optimizing distortion riskmetrics with distributional uncertainty. Submitted. arXiv: https://arxiv.org/abs/2011.04889.
- [3] Wang, Q., Wang, R. and Zitikis, R. (2021). Risk measures induced by efficient insurance contracts. Insurance: Mathematics and Economics, forthcoming. arXiv: https://arxiv.org/abs/2109.00314.
- [4] Embrechts, P., Mao, T., **Wang, Q.** and Wang, R. (2021). Bayes risk, elicitability, and the Expected Shortfall. *Mathematical Finance*, **31**(4), 1190–1217.
- [5] Wang, Q., Wang, R. and Wei, Y. (2020). Distortion riskmetrics on general spaces. ASTIN Bulletin, 50(4), 827–851.
- [6] Wang, Q. and Kwok, Y.K. (2020). Real option signaling games of debt financing using equity guarantee swaps. *International Journal of Theoretical and Applied Finance*, **23**(5), 2050036.
- [7] Wang, Q. and Kwok, Y.K. (2019). Signaling game models of equity financing under information asymmetry and finite project life. *International Journal of Financial Engineering*, **6**(1), 1950002.

Selected Honors and Awards

James C. Hickman Scholar Doctoral Stipend (out of 4 recipients), SOA	2021 - 2022
SAS Chair's Award, UW	2021 - 2022
Comprehensive Award (out of 2 recipients), UW	2020
International Doctoral Student Award, UW	2019 - 2021
Statistics and Actuarial Science Doctoral Entrance Award, UW	2019 - 2021
Postgraduate Studentship, HKUST	2017 - 2019
Scholarship Scheme for Continuing Undergraduate Students, HKUST	2015 - 2017
Fong Shu Chuen Scholarship, HKUST	2015 - 2016
School of Science Dean's List, HKUST	2014

Conferences Organized

• 2nd Waterloo Student Conference in Statistics, Actuarial Science and Finance (Student Co-chair), 2021 (Online)

Invited Academic Presentations

- Real Options Seminar, Osaka University, 2021 (Online)
- SIAM Conference on Financial Mathematics and Engineering, 2021 (Online)

Contributed Academic Presentations

- 56th Actuarial Research Conference, 2021 (Online)
- 24th International Congress on Insurance: Mathematics and Economics, 2021 (Online)
- 5th PKU-NUS Annual International Conference on Quantitative Finance and Economics, 2021 (Online)
- 5th Asian Quantitative Finance Seminar, 2020 (Online)
- 1st Waterloo Student Conference in Statistics, Actuarial Science and Finance, 2019 (Waterloo, Canada)
- 23rd Annual International Real Options Conference, 2019 (London, UK)

Teaching Experiences

• Teaching Assistant, University of Waterloo

ACTSC $446/846$ - Mathematics of Financial Markets	Winter 2022
ACTSC 431 - Casualty and Health Insurnce Mathematics 2	Spring 2021
MATBUS 472 - Risk Management	$Winter\ 2021-2022$
ACTSC 431 - Loss Model I	Spring 2020
ACTSC 445/845 - Quantitative Enterprise Risk Management	Spring 2020
ACTSC 231 - Introductory Financial Mathematics	Winter 2020
MATBUS 471 - Fixed Income Securities	Fall 2019 – 2021, Winter 2020
MATBUS 470 - Derivatives	Fall 2019 - 2021, Winter 2021

• Teaching Assistant, Hong Kong University of Science and Technology

MATH 4321 - Game Theory $Spring \ 2018 - 2019$ MATH 4511 - Quantitative Methods for Fixed Income Derivatives $Fall \ 2018$

Other Skills

Languages: Mandarin (Native), English (Fluent, TOEFL iBT: 108), Cantonese (Conversational), German (Elementary)

Programming: MATLAB, C++, R, HTML, Python, Stata, Excel VBA, MS Office

 $\rm SOA$ Exams passed: VEE Applied Statistics, VEE Economics, Exam P, Exam FM, Exam IFM, Exam SRM, Exam PA, Exam STAM

Last updated: Jan 2022