

Liyuan LIN

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Updated by 01/02/2025

Employment

- Senior Lecturer, Monash University
Aug. 2024 - Present

Academic Appointment

- Ph.D, University of Waterloo (UW)
Sep. 2020 - Oct. 2024
 - Major: Actuarial Science
 - Supervisor: Ruodu Wang and Alexander Schied
- Master degree in Economics, Central University of Finance and Economics (CUFE)
Sep. 2017 - Jun. 2020
 - Major: Actuarial Science
 - Supervisor: Jingzhen Liu
- Bachelor in Economics, Central University of Finance and Economics
Sep. 2013 - Jun. 2017
 - Major: Actuarial Science
 - Supervisor: Jingzhen Liu

Research Interests

- *Actuarial Science*
- *Dependence and Risk Aggregation*
- *Quantitative Risk Management*

Manuscripts and Publications

- [1] Han, X., **Lin, L.** and Zhao, M. (2025). Empirical estimator of diversification quotient. *arXiv*: 2506.20385.
- [2] Lauzier, J., **Lin, L.**, Wakker, P. and Wang, R. (2025). Optimal risk sharing, equilibria, and welfare with empirically realistic risk attitudes. *arXiv*:2401.03328.
- [3] Han, X., **Lin, L.**, Hao Wang and Wang, R. (2025). Diversification quotient based on expectiles. *arXiv*: 2411.14646.
- [4] Lauzier, J., **Lin, L.** and Wang, R. (2025). Risk sharing, measuring variability, and distortion riskmetrics. *Mathematical Finance*, <https://doi.org/10.1111/mafi.70007>.

- [5] **Lin, L.**, Wang, R., Zhang, R. and Zhao, C. (2025). The checkerboard copula and dependence concepts. *SIAM Journal on Financial Mathematics*, **16**(2), 426-447.
- [6] Han, X., **Lin, L.** and Wang, R. (2024). Diversification quotients: quantifying diversification via risk measures. *Management Science*, <https://doi.org/10.1287/mnsc.2023.00513>.
- [7] Koike, T., **Lin, L.** and Wang, R. (2024). Invariant correlation under marginal transforms. *Journal of Multivariate Analysis*, **204**, 105361.
- [8] **Lin, L.**, Liu, F., Liu, J. and Yu, L. (2024). The optimal reinsurance strategy with price-competition between two reinsurers. *Scandinavian Actuarial Journal*, **2024**(8), 1-28.
- [9] Koike, T., **Lin, L.** and Wang, R. (2024). Joint mixability and negative orthant dependence. *Mathematics of Operations Research*, **49**(4), 2786-2802.
- [10] Assa, H., **Lin, L.** and Wang, R. (2024). Calibrating distribution models from PELVE. *North American Actuarial Journal*, **28**(2), 373-406.
- [11] Lauzier, J., **Lin, L.** and Wang, R. (2023). Pairwise counter-monotonicity. *Insurance: Mathematics and Economics*, **111**, 279-287.
- [12] Han, X., **Lin, L.** and Wang, R. (2023). Diversification quotients based on VaR and ES. *Insurance: Mathematics and Economics*, **113**, 185-197.
- [13] Yu, L., **Lin, L.**, Guan, G. and Liu, J. (2023). Time-consistent lifetime portfolio selection under smooth ambiguity. *Mathematical Control and Related Fields*, **13**(3), 967-987.
- [14] Chen, Y., **Lin, L.** and Wang, R. (2021). Risk aggregation under dependence uncertainty and an order constraint. *Insurance: Mathematics and Economics*, **102**, 169-187.
- [15] Liu, J., Yan, S. and **Lin L.** (2020). Optimal asset allocation for households with habit formation. Submitted. (In Chinese).
- [16] Liu, J., **Lin, L.**, Yiu, K.F.C. and Wei, J. (2020). Non-exponential discounting portfolio management with habit formation. *Mathematical Control and Related Fields*, **10**(4), 761-783.
- [17] Liu, J., **Lin, L.** and Meng, H. (2020). Optimal consumption, life insurance and investment decision with habit formation. *Acta Mathematicae Applicatae Sinica (Chinese Series)*, **43**(3), 517-534.
- [18] Liu, J. and **Lin, L.** (2018). Impact of weather on the pricing of flight delay insurance. *Insurance Theory and Practice*, **2018**(11), 100-110.

Conferences Organized

- 2024 Australasian Actuarial Education and Research Symposium (Volunteer), 2024 (Caulfield, VIC, Australia)
- 3rd Waterloo Student Conference in Statistics, Actuarial Science and Finance (Volunteer), 2022 (Waterloo, Canada)
- 2nd Waterloo Student Conference in Statistics, Actuarial Science and Finance (Volunteer), 2021 (Online)

Conferences

- [1] 1st ASTIN Bulletin Conference, Zurich, Switzerland, January 14-16, 2026.
- [2] 2025 Australasian Actuarial Education and Research Symposium, Sydney, Australia, December 1-2, 2025.
- [3] The 3rd Conference on Theory and Application of Actuarial Science, Tianjing, China, October 31-November 3, 2025.

- [4] 15th Annual China Conference on Insurance and Risk Management, Xinjiang, China, July 9-12, 2025.
- [5] The Third International Conference on Actuarial Science, Quantitative Finance, and Risk Management, Beijing, China, July 6-8, 2025 (Invited).
- [6] FADeRiS 2025, Paris, France, June 4-5, 2025 (Invited).
- [7] 2025 SSC Annual Meeting, Online, Saskatoon, Canada, May 25-28, 2025 (Invited).
- [8] 27th International Congress on Insurance: Mathematics and Economics, Chicago, United States, July 8-11, 2024.
- [9] FADeRiS 2024, Ulm, Germany, May 27-29, 2024.
- [10] BIRS: Optimal Transport and Distributional Robustness workshop, Banff, Canada, March 24-29, 2024.
- [11] 26th International Congress on Insurance: Mathematics and Economics, Edinburgh, United Kingdom, July 4-7, 2023.
- [12] SIAM Conference on Financial Mathematics and Engineering (FM23), Philadelphia, Pennsylvania, United States, June 6-9, 2023 (Invited).
- [13] 2022 INFORMS Annual Meeting, Indianapolis, United States, October 16-9, 2022 (Invited).
- [14] 3rd Waterloo Student Conference in Statistics, Actuarial Science and Finance, Waterloo, Canada, October 14-15, 2022.
- [15] 57th Actuarial Research Conference, Urbana-Champaign, United States, August 3-6, 2022.
- [16] 25th International Congress on Insurance: Mathematics and Economics, Online, July 12-15, 2022.
- [17] 2022 CORS/INFORMS International Conference, Vancouver, Canada, June 5-8, 2022.
- [18] SSC 2022 Annual Meeting, Online, May 30-June 3, 2022.
- [19] 2nd Waterloo Student Conference in Statistics, Actuarial Science and Finance, Online, Nov 5-6, 2021.
- [20] The 7th FINACT-IRAN National Conference on Financial and Actuarial Mathematics, Online, Aug 10-12, 2021.
- [21] 23rd International Congress on Insurance: Mathematics and Economics, Munich, Germany, Jul 10-12, 2019.
- [22] 2019 China Actuarial Theory and Application Conference, Shanghai, China, May 18-19, 2019.
- [23] The 8th Annual Conference of Financial Engineering and Financial Risk Management Branch of OR Society of China, Xian, China, Aug 25-26, 2018.

Grant

Monash Business Schools Dean's List	2025-2026
Monash ECA Research Grant	2025-2026

Selected Scholarships & Awards

Canada's Pierre Robillard Award	2025
Graduate Research Excellence Award, UW	2024
Senate Graduate Scholarship Sprott Award, UW	2023
James C. Hickman Scholar Doctoral Stipend, Society of Actuaries (SOA)	2022-2023
ARC Graduate Student Presentation Award	2022
Statistics & Actuarial Science Chair's Award, UW	2021-2023
Actuarial Science Doctor Entrance Award, UW	2020
Excellent MA thesis, CUFE	2020
Outstanding Graduate, CUFE	2020
First-Class Scholarship, CUFE	2018-2019
Sir Edward Johnston prize, Institute and Faculty of Actuaries (IFOA)	2018

Teaching experience

- Instructor at Monash University

ETC3420/5342 - Applied Insurance Methods	S2 2025-2026
ETC2430 - Actuarial cash flow modelling	S1 2025-2026

- Instructor at UW

STAT 230 - Probability	Fall 2023
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Peer-review Service

- Actuarial science journal(s): European Actuarial Journal, Insurance: Mathematics and Economics, ASTIN Bulletin
- Mathematical Finance journal(s): Mathematical Finance
- Probability journal(s): Statistics and Probability Letters, Bernoulli, Dependence Modelling

Other Skills

- Language skills: Mandarin (Native); English (Fluent, IELTS 7)
- Professional skills
 - A.S.A. (Associate of the Society of Actuaries)
 - A.I.A. (Associate of the Institute of Actuaries)
 - Associate of China Association of Actuaries
- Programming: Matlab, R, C++, Python, HTML, Excel VBA, MS Office