Jayen Tan

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Education

2022–2027	**Ph.D.** Applied Economics and Management, Cornell University (Expected) Committee: Calum Turvey, Robert Jarrow, Gennady Samorodnitsky Semester Exchange at the University of Pennsylvania (Fall 2026, Francis Diebold)
2020-2021	**M.Sc.** Financial Engineering, Nanyang Technological University
2017-2020	**B.Sc.** Business (Actuarial Science), Nanyang Technological University

Awards & Honors

2021	Nanyang Business School International PhD Scholarship
2021	Top MFE Student Award
2020	MFE Study Award
2020	Singapore College of Insurance Gold Medal Award
2020	IFoA Sir Edward Johnston Award
2019	P K Hwang and A G Mackenzie Book Prize
2017	Nanyang Scholarship

Publications

1. Jayen Tan and Jinggong Zhang (2026). Optimal Disaster Fund Strategy: Seeking the Ideal Mix of Disaster Risk Financing Instruments. In: *Annals of Actuarial Science* 20, pp. 115–149. DOI: 10.1017/S1748499525100080.

Forthcoming

1. Jayen Tan (2026). Pricing Weather Contracts under Persistent Memory in Temperature. In: *Journal of Risk and Insurance* (Early Access). DOI: 10.1111/jori.70063.
   Honorable Mention, ARC2024 Graduate Student Presentation Awards

Working Papers

1. Robert Jarrow and Jayen Tan (2026). Option Pricing with Time-Changed Fractional Brownian Motion: A Fractional Variance Gamma Model. DOI: 10.48550/ARXIV.2608.03925.
2. Jayen Tan and Robert A. Jarrow (2026). Risk-Neutral Valuation with a Non-Traded Fractional Brownian Underlying. DOI: 10.2139/ssrn.5692102.
   Riĉardas Zitikis International Research Prize
3. Jayen Tan and Robert Jarrow (2025). Equity Valuation with Fractional Firm Value.
4. Jayen Tan and Jinggong Zhang (2024). Pricing and Evaluation of Optimal Partial Joint Loans.

Referee

Insurance, Mathematics and Economics

Presentations/ Conferences

2026	61st Actuarial Research Conference
	8th International Conference on Mathematics in Finance 2026
	29th International Congress on Insurance: Mathematics and Economics
	NUS Quantitative Finance Conference 2026
	RMI PhD Symposium, University of Georgia
2025	Risques climatiques extrêmes et prévention en assurance (Extreme Climate Risks and Prevention in Insurance) Seminar, Emlyon Business School
	60th Actuarial Research Conference
	2025 World Risk and Insurance Economics Congress
	Vienna Congress on Mathematical Finance 2025
	28th International Congress on Insurance: Mathematics and Economics
	Nanyang Business School, Nanyang Technological University
2024	59th Actuarial Research Conference
	Dyson School of Applied Economics and Management, Cornell University

Teaching

Cornell University

2024-2025	[Instructor] Summer Math Camp for incoming Master's students
2024	[Teaching Assistant] AEM4210/6410 Futures, Options and Financial Derivatives
2024-2026	[Teaching Assistant] AEM4060/6061 Risk Simulation and Monte Carlo Methods
2023	[Teaching Assistant] AEM 3245/6245 Organizational Behavior

Nanyang Technological University

2022	[Instructor] AB1202 Statistics and Analysis (AY2021-2022 Semester 2)

Other Experience

2019-2020	Reserving Actuary Internship, Zurich Insurance, Singapore

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