

Eugenia Fang

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Research Interests Climate Change and Insurance; Climate Extremes; Financial Crises; Climate Economic Modeling; Integrated Assessment Models; Systemic Climate Risk.

Professional Designations

- Associate of the Society of Actuaries ([ASA](#)) (2024)
- Financial Risk Manager ([FRM](#)) by the [Global Association of Risk Professionals](#)—passed all exams; accumulating work experience (expect to obtain designation in 2026)

Education

- **UNSW Sydney** — Ph.D., Risk and Actuarial Studies 2022–2026 (expected)
Advisors: Prof. Qihe Tang, Prof. Bernard Wong, and Prof. Andy Pitman
- **Renmin University of China** — M.S., Applied Statistics 2020–2022
- **Renmin University of China** — B.S., Applied Statistics 2016–2020

Visiting Positions

- **Macquarie University** Sept. 2018 - May 2019
Undergraduate Exchange Program in Actuarial Science

Working Papers

1. **A Comparative Study of Climate Extremes and Financial Crises** (with Andy Pitman, Qihe Tang, and Bernard Wong)
2. **Assessing the Role of Insurance in Climate Policy: A DICE Model Framework Under Uncertainty** (with Qihe Tang)
3. **Measuring Systemic Climate Risk** (with Qihe Tang)
4. **Central Clearing in Managing Corporate Default Clustering in a Warming World** (with Patrick J. Laub, Yuhao Liu, Qihe Tang, Steven Vanduffel). Available at SSRN: [link](#).

Talks

- The 2025 Australasian Actuarial Education and Research Symposium (AAERS), UNSW Sydney, Sydney, Australia (Dec. 1–2, 2025). Presented on “*Measuring Systemic Climate Risk in Insurance*”.
- The UNSW and Macquarie Roundtable Meeting, UNSW Sydney, Sydney, Australia (Sept. 9, 2025). Presented on “*Assessing the Role of Insurance in Climate Policy: A DICE Model Framework Under Uncertainty*”.
- The 2025 World Risk and Insurance Economics Congress (WRIEC), Hyatt Regency Calgary, Calgary, Canada (Aug. 3–7, 2025). Presented on “*Assessing the Role of Insurance in Climate Policy: A DICE Model Framework Under Uncertainty*”.
- The 60th Actuarial Research Conference (ARC), York University, Toronto, Canada (July 29–Aug. 1, 2025). Presented on “*Measuring Systemic Climate Risk in Insurance*”.
- The 2024 Australasian Actuarial Education and Research Symposium (AAERS), Monash University, Melbourne, Australia (Nov. 20–21, 2024). Presented on “*The Role of Insurance in Climate Change Mitigation: An Assessment Using the Dynamic Integrated Climate-Economy (DICE) Model*”.

- The 59th Actuarial Research Conference (ARC), Middle Tennessee State University, Murfreesboro, USA (July 18–20, 2024). Presented on “*The Role of Insurance in Climate Change Mitigation: An Assessment Using the Dynamic Integrated Climate-Economy (DICE) Model*”. Honorable Mention of the ARC Graduate Student Presentation Awards.
- The 27th International Congress on Insurance: Mathematics and Economics, University of Illinois Urbana-Champaign, Chicago, USA (July 8–11, 2024). Presented on “*Climate Extremes and Financial Crises: Similarities, Differences, and Synergies*”.
- The 2023 Australasian Actuarial Education and Research Symposium (AAERS), Victoria University of Wellington, Wellington, New Zealand (Nov. 23–24, 2023). Presented on “*Understanding Compound Weather and Climate Events through the Lens of Systemic Financial Crises*”.
- The UNSW Workshop on Risk and Actuarial Frontier: Climate Risk and Insurance, UNSW, Sydney, Australia (Sept. 22, 2023). Co-presented with Qihe Tang on “*Understanding Compound Weather and Climate Events through the Lens of Systemic Financial Crises*”.

Grants

- 2023–2024: Research Assistant, a successful proposal for the Australian Research Council Discovery Project (Lead Chief Investigator: Qihe Tang; Chief Investigator: Elise Payzan-LeNestour; Partner Investigator: Jose Blanchet), \$538,596 AUD [ARC DP250100078].
- 2023: UNSW Business School Sustainable Development Goals (SDGs) Research Grant, \$4,000 AUD.

Awards and Honors

- **Riçardas Zitikis International Research Prize in Quantitative Risk Management**, Risk and Insurance Studies Centre (RISC Foundation); \$1,500 CAD (2025).
- **James C. Hickman Scholar**, Society of Actuaries (SOA); \$20,000 USD per year (2024–26). *I’m the first recipient outside North America.*
- **UNSW Development and Research Training Grant**; \$1,500 AUD per year (2023–25).
- **UNSW School of Risk and Actuarial Studies PhD Research Fund**; \$3,500 AUD per year (2022–25).
- **Climate Investment Challenge** (Main Competition, Semi-finalist); Team leader (with Yuhao Liu, Jim Li, Doreen Kabuche); Imperial College London (2023).
- **Outstanding Postgraduate Award**, Renmin University of China (2022).
- **Actuarial Scholarship for Exam Fee**, AIA Group Limited (2022).
- **UCAP Actuarial Scholarship for Exam Fee**, Society of Actuaries (SOA) (2021).
- **Postgraduate Learning Excellence Scholarship**, Renmin University of China; ¥10,000 RMB per year (2020–21).
- **Outstanding Undergraduate Award**, Renmin University of China (2020).
- **Undergraduate Learning Excellence Scholarship**, Renmin University of China; ¥8,000 RMB (2020).
- **President Scholarship for International Exchange Program**, Renmin University of China; \$15,000 AUD (2018).

Teaching Experience

- **Quantitative Business Analytics** (COMM5601), 2024 Term 1, 2024 Term 3. *Evaluation: 5.6, 5.8/6.0.*
- **Models for Risk Management** (ACTL3301/5301), 2024 Term 2, 2025 Term 2. *Evaluation: 5.6, 5.5/6.0.*
- **Climate Change Risk** (RISK5005), 2024 Term 1. *No Evaluation.*

Responsibilities include: Prepared and revised course materials, with significant contributions to the initial offerings of COMM5601 and RISK5005; delivered tutorial classes; delivered coding lab sessions; supervised student sandbox projects utilizing industry datasets.

Service

- Reviewer of *Insurance: Mathematics and Economics* and *ASTIN Bulletin: The Journal of the IAA*.
- Coordinator/Chair, Presenter, and Discussant, *Climate Change & Insurance Reading Group* (2022–2023, School-level seminar series).
Organized 15 sessions with 30–40 participants each, involving PhD students, academics, and industry professionals; coordinated and invited presenters and discussants; assisted in selecting papers for discussion under the guidance of Prof. Qihe Tang; facilitated discussions on climate change and insurance research; and presented on “*Business Risk and the Emergence of Climate Analytics*” and “*Compound Events: Global Hotspots, Typology, and Climate Risks*”. Materials available at: [link](#).

Industry Experience

- **Willis Towers Watson** — Retirement Actuarial Consulting Intern; Beijing, China (Mar. 2021–May 2021)
- **AIX Tech** — Actuarial Intern; Beijing, China (Apr. 2020–Aug. 2020)
- **China Life Reinsurance Co., Ltd.** — Business Management Intern; Beijing, China (Aug. 2019–Nov. 2019)
- **New China Life Insurance Co., Ltd.** — Actuarial Intern; Beijing, China (Nov. 2018–Feb. 2019)