



Annual Emerging Risks Research Centre Workshop

Wednesday 3 December 2025

Macquarie University City Campus, Sydney

Level 24, 123 Pitt Street, Sydney CBD



PROGRAM AND SPEAKERS

09:00 – 09:30	Registration
	Welcome Speech & Opening Remarks
09:30 – 09:40	Leonie Tickle , Executive Dean of Macquarie Business School Zhuo Jin , Co-Director of the Centre for Emerging Risks
09:40 – 10:25	Speaker: Jean-Francois Begin , Associate Professor, Simon Fraser University Title: Modelling the impacts of climate change on deaths caused by heat and cold waves with age-period-cohort models
10:25 – 11:10	Speaker: Peng Shi , Professor, University of Wisconsin-Madison Title: Bridging the disaster protection gap with index insurance
11:10 – 11:30	Morning Tea
11:30 – 12:15	Speaker: Qihe Tang , SHARP Professor, University of New South Wales Title: Distributionally robust optimization under ambiguity across two layers
12:15 – 13:00	Speaker: Maochao Xu , Professor, Illinois State University Title: An online learning framework for cyber risk modeling and prediction
13:00 – 14:30	Lunch Break
14:30 – 15:15	Speaker: Yiying Zhang , Assistant Professor, Southern University of Science and Technology Title: Catastrophe risk sharing with insurance levy under distorted probabilities
15:15 – 16:00	Speaker: Min Zheng , Professor, Central University of Finance and Economics Title: A nation prospers when it cares for its workers: the impact of artificial intelligence on China's labor market
16:00 – 16:20	Afternoon Tea
	Project Showcase: Bridging Academia and Industry
16:20 – 17:20	Rerotlhe Basele : Housing fever and financial fragility Azra May Kabiri : Connectedness between climate and commodities: a new measure using mixed-frequency VECM Patrick McConnell : Post quantum cryptography - a critical emerging risk
	Closing Remarks

Emerging Risks Workshop 2025	
Date	Wednesday 3 December 2025
Venue	Macquarie University City Campus Level 24, 123 Pitt Street Angel Place Sydney CBD
Time	9am – 9:30am: Registration 9:30am – 5:30pm: Program
Cost	\$55 (including GST) per person



EMERGING RISKS WORKSHOP 2025

Macquarie University Emerging Risks Research Centre at Macquarie Business School, is hosting its inaugural annual Emerging Risks Workshop. This workshop marks the launch of the University's flagship annual event **dedicated to addressing the most pressing and complex risks of our time.**

OUR SPEAKERS

As subjects embrace the dynamic with miscellaneous uncertainty, this one-day conference – with a strong line-up of outstanding speakers – brings together leading academics to explore innovative, interdisciplinary solutions to global challenges.

REASONS TO ATTEND

This inaugural Emerging Risks Workshop launches Macquarie University's flagship annual event dedicated to exploring the world's most pressing and complex risks. Bringing together leading academics and experts across finance, health, technology, the economy, and the environment, the workshop highlights innovative and interdisciplinary approaches to understanding and managing global uncertainty.

Emerging risks increasingly shape how societies, markets, and systems evolve. Remarkably, the workshop provides a unique opportunity to engage with cutting-edge research and share perspectives across disciplines, thereby uncovering actionable strategies for resilience and informed decision-making in an era of rapid change.

WHO SHOULD ATTEND

- Actuaries and insurance professionals
- Climate risk analysts
- Data, analytics, and modelling specialists
- Economic academics
- Finance and investment experts
- Health and public health experts
- Regulators and policy advisers
- Researchers into cyber risk
- Researchers across sustainability and ESG



www.mq.edu.au/research/emerging-risks-annual-workshop

ORGANISING COMMITTEE

Professor Zhuo Jin (Actuarial Studies, Co-Director of the Macquarie University Emerging Risks Research Centre)

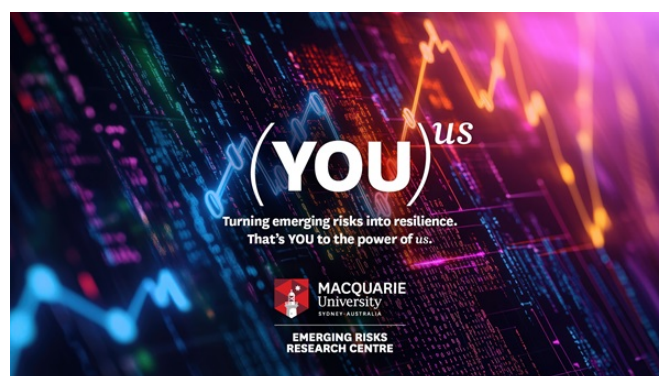
Professor Pavel Shevchenko (Actuarial Studies, Co-Director of the Macquarie University Emerging Risks Research Centre)

Professor Shuping Shi (Economics, Co-Director of the Macquarie University Emerging Risks Research Centre)

Associate Professor Jiwook Jang (Actuarial Studies, Macquarie University Emerging Risks Research Centre)

Associate Professor Chi Truong (Actuarial Studies, Macquarie University Emerging Risks Research Centre)

EMERGING RISKS RESEARCH CENTRE



Macquarie University Emerging Risks Research Centre delivers authoritative and interdisciplinary solutions for society and decision-makers facing novel and complex risks with global impact.

Emerging risks are newly developing or evolving risks that are characterised by unique features of novelty, uncertainty, complexity and significant global impacts, often arising from: cybersecurity, digitalization, disruptive technologies, environmental changes, global pandemics, healthcare management

The Centre's mission is to:

- advance the understanding, identification, assessment, and management of emerging risks through innovative and theoretically grounded approaches
- foster interdisciplinary collaboration
- share knowledge to empower stakeholders in effectively preparing for, managing, and mitigating emerging risks

OUR RESEARCH FOCUS

- Banking, finance and asset pricing
- Behavioural economics and financial literacy
- Climatic change and catastrophic risks
- Complex industry and corporate issues
- Cyber risk
- Energy and utility markets
- Insurance and risk analysis
- International and domestic issues
- Regulation and government policy
- Superannuation



For more information, contact us: <https://www.mq.edu.au/research/research-centres-groups-and-facilities/centres/emerging-risks>

UPCOMING EVENTS

The Inaugural AE² Conference Sydney CBD, 8-10 December 2025

Australasian Econometric Conference of the Association of Econometricians (AE2). The three-day event will include a one-day Summer School followed by a two-day econometrics conference designed to showcase high-quality research in econometrics and foster collaboration across academia and industry.

CLIMATE FINANCE & RISK 2025 Sydney CBD, 10-12 December 2025

This workshop will bring together experts in mathematics, statistics, and environmental studies to explore the challenges and opportunities of climate change.

For more information and registration, visit:
www.mq.edu.au/research/research-centres-groups-and-facilities/centres/emerging-risks

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