



ASST PROF ZHANG JINGGONG

Nanyang Business School

 jgzhang@ntu.edu.sg

Agricultural Insurance; Index-based Insurance Design; Machine Learning; Weather Risk; Risk Management

My food-related research focuses on improving the resilience of agricultural systems through better risk management and insurance design. I study how climate variability and extreme weather affect crop yields and farmers' income, and develop data-driven tools—particularly machine learning and statistical models—to predict agricultural risks and design sustainable crop insurance programs. This research supports more effective financial protection for farmers and contributes to the long-term stability of food production systems under climate change.
