

YAN WANG

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EDUCATION

AMERICAN UNIVERSITY, Department of Economics

Washington, DC

Ph.D. in Economics

Expected Graduation: May 2025

- Research fields: Macroeconomics, Macro-finance and Climate Economics

COLUMBIA UNIVERSITY, School of International and Public Affairs

New York, NY

Master of Public Administration – Program in Central Banking and Financial Markets

May 2017

SICHUAN UNIVERSITY, School of Economics

Chengdu, China

Bachelor of Economics

September 2010

PROFESSIONAL EXPERIENCE

THE WORLD BANK

Washington, DC

Consultant, Chief Econ Climate Team, Prosperity Vice Presidency

October 2023 - Present

- Contributed to the Macro-Criticality Team by leading the development of the research paper "Macro-criticality of Climate Change," aimed at enhancing the World Bank's macro-financial assessments of physical climate impacts and low-carbon transition policies.
- Conducted comprehensive research on macro-financial vulnerabilities driven by climate risks, with a focus on fiscal policy uncertainty, nonlinear shock transmission, and tipping points. Integrated findings into the World Bank's macro-financial stability framework and flagship climate-related reports, including the Country Climate and Development Report (CCDR), to inform policy recommendations and operational strategies.
- Collaborated with World Bank colleagues to refine the report's content, ensuring that the research outcomes bolster the World Bank's diagnostic tools, policy assessments, and recommendations.

AMERICAN UNIVERSITY

Washington, DC

Research Assistant (with Scott Baker, Steven J. Davis, and Xuguang S. Sheng)

August 2022 - Present

- Contributed to the development and ongoing updates of China's Economic Policy Uncertainty (EPU) Index, a key macroeconomic indicator widely cited by academic researchers and policy institutions for analyzing systemic risks and financial stability. Project details available at policyuncertainty.com.
- Managed a Python-based framework to collect, clean, and process data from major Chinese newspapers (People's Daily and Guangming Daily), significantly enhancing data quality and granularity for macro-financial surveillance. Responsible for providing in-depth monthly reports.

THE WORLD BANK

Washington, DC

Consultant, Macro-financial team, Finance, Competitiveness & Innovation Global Practice

May 2017- May 2019

- Contributed to the second (April 2018) and third (October 2018) editions of the Macro-Financial Review as a core member of a four-person team of economists.
- Co-developed and implemented the Macro-Financial Spider Tool for global risk assessments, integrating approximately 60 variables across nine risk dimensions, including macroeconomic risks and public sector risks. Provided policy recommendations and operational insights to stakeholders.
- Led data analysis and visualization efforts; authored analytical reports and contributed to 44 country-specific regional overviews. Proficient in utilizing key economic databases (e.g., World Bank, IMF, Haver Analytics, Bloomberg) and employing analytical tools for macroeconomic and sectoral analysis.
- Conducted comprehensive research on economic trends, with a focus on topics such as cross-border banking in Emerging Market and Developing Economies (EMDEs) and blockchain technology applications.
- Led training initiatives by developing comprehensive materials for both in-person and virtual training sessions, webinars, and presentations tailored to a broad audience across the Bank.

PH.D. DISSERTATION

Global Financial Crises and Climate Instability: Lessons from China

- Conducted a comprehensive analysis of compound risks arising from financial crises and climate events (1900–2023), emphasizing their macroeconomic impacts and fiscal policy implications.
- Investigated the macro-fiscal stability implications of compound crises, analyzing how climate shocks interact with fiscal and monetary policies to influence economic resilience and sustainability.
- Developed and implemented a Bayesian-estimated Dynamic Stochastic General Equilibrium (DSGE) model using MATLAB and Dynare. The model analyzed sectoral effects of climate shocks—across agriculture, industry, banking, and trade—during China’s Great Depression, uncovering systemic vulnerabilities, fiscal risks, and policy trade-offs.

PUBLICATIONS

- An Evolutionary Game Theory Model for Chinese Laggard Firms Technology Catching up. In Proceedings of the 18th International Conference on Management Science and Engineering Management (ICMSEM 2024), Lecture Notes on Data Engineering and Communications Technologies, Volume 215, pp. 402-416. Springer (with Liping Li, Chendu University).
- Co-authored sections analyzing macro-financial risks in 44 countries for the Macro-Financial Review, Third Edition (April 2018, pp. 11–48) and Fourth Edition (October 2018, pp. 17–44). Internal publications of the World Bank Group.
- Co-authored selected blockchain use cases and examples in Special Topic: Blockchain Technology Applications & Use Cases (2018, pp. 80–89). Internal publication of the World Bank Group.

PAPERS IN PROGRESS

- Macro-Criticality of Climate Change: Key Issues and Strategic Discussion (with Nepomuk Dunz and Christian Schoder, World Bank)
- Policy Intervention and Chinese Stock Market During the COVID-19 Pandemic (with Steven J. Davis, Stanford University; Dingqian Liu and Xuguang Simon Sheng, American University)
- The Nonlinear Impact of ESG on Firm Financial Performance (with Ralph Sonenshine, American University)
- Employing Nonlinear Autoregressive Distributed Lag (NARDL) to Reevaluate Climate Change, Silver Inflows, and the Price Revolution: New Insights into the Qing Dynasty's Global Integration

HONORS & AWARDS

- Ph.D. Scholarship, American University, 2019-2023
- Graduate Student Research Grant, American University, 2021
- Received the Frank M. Tamagna Prize from American University in 2020 for excellence in finance and banking

SKILLS & TRAINING

- Economic Modeling & Data Analysis: MATLAB, Dynare, EViews, Stata, Python, ArcGIS, NetLogo, Excel, and LaTeX.
- Native speaker of Chinese, fluent in English, with basic proficiency in Japanese.
- Completed the International Monetary Fund (IMF)'s "Macroeconomics of Climate Change (MCCx)" six-part series in November 2023, focusing on mitigation strategies, transitioning to net-zero, adaptation economics, climate financial risks, and green public financing, to understand the interplay between macroeconomics and climate change.