Cong Wang

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Summary

Econometrician and financial sector expert with extensive experience in econometric modeling and financial analysis. Proficient in programming languages Python and R, familiar with key financial and economic databases, including ECB, FED data portals, SNL, and rating platforms like Fitch, S&P, and Moody's. Skilled in using Bloomberg Terminal and Refinitiv Eikon for data queries and economic analysis.

In my PhD study, I specialized in applied econometrics, developed novel causal inference methods and advanced quantitative models for analyzing complex data-generating processes. At the European Stability Mechanism (ESM), I gained hands-on experience in financial econometric modeling and policy analysis. Both experiences have honed my ability to conduct impactful research in Finance and Economics, bridging advanced econometric methods with practical financial insights.

Skills

Computer Language: Python, R, Stata, MATLAB	Econometrics, Causal inference
Human Language: Chinese, English, Russian	Financial econometrics, Machine learning
Data Terminals: Bloomberg terminal, Refinitiv Eikon	Policy analyzes, Market Intelligence

Research & Interest

Experience

Financial sector analyst, European Stability Mechanism, Chief Econ Dept, Luxembourg   5.2024 – 4.2025
- Conducted scientific research in macro-financial linkages analyzing the interactions between financial markets and the real economy, published blog posts, monitor stories, analytical reports, etc.
- Using Python and R optimized the algorithm for Bank Viability Index based on various risk metrics to better monitor the stability of systematically important Euro Area banks.
- Provided market intelligence and financial sector analysis, focusing on stock price movements, company news, yield curves, and CDS pricing for Euro Area banks.

Visiting researcher, University of California, Los Angeles, Econ Dept, USA   3.2023 – 9.2023
- Conducted econometric training and research in causal inference, focusing on advanced methods for identifying and quantifying causal relationships in economics, developed new casual inference method.
- Collaborated with faculty on joint research projects, contributed to mathematic model building and validation, leading data collection, cleaning, visualization, and simulation analysis.

Market Analyst, China Life Asset Management, Market Research Div, China   7.2020 – 9.2021
- Conducted data analysis, visualization, and simulation for the secondary financial market, providing insights on investment strategies.
- Assisted sector and company reports, effectively communicating analysis to internal stakeholders and external clients, driving informed investment decisions.
- Led the development of a data visualization tool that improved reporting efficiency, enabling faster and more accurate analysis for the team.

QTEM Exchange Student, University of Amsterdam, Econ Dept, Netherlands   9.2019 – 2.2020
- Completed rigorous quantitative analysis and financial modeling training, gaining hands-on experience in applying advanced quantitative methods to finance.
- Training on quantitative modeling, Black-Scholes-Merton model, Geometric Brownian motion, etc.

Education

Sapienza University of Rome	**Rome, Italy**
PhD in Economics	Expected in May 2025
HSE University	**St. Petersburg, Russia**
MSc in Finance	Sep 2018 - Jun 2020
Shenyang Ligong University	**Shenyang, China**
BSc in Engineering	Sep 2012 - Jun 2016

Scholarships and Awards

University of Rome International Mobility Scholarship	2022
University of Rome fully founded Ph.D. Scholarship	2021
QTEM Honored Graduate Diploma	2020
HSE University International Mobility Scholarship	2019
HSE University Scholarship	2018

Conference & Workshop

2024 European Winter Meeting of the Econometric Society	**Palma De Majoca, Spain**
The Econometric Society.	Dec 2024
12th IEA Workshop in Econometrics and Empirical Economics	**Bertinoro, Italy**
Italian Econometric Association.	Sep 2024
IMF Financial Programming and Policies Workshop	**Luxembourg**
European Stability Mechanism.	Jun 2024
Political Economy of Climate and the Environment Mini-Conference	**Los Angeles, USA**
University of California, Los Angeles.	Aug 2023
2023 North American Summer Meeting (NASM)	**Los Angeles, USA**
The Econometric Society.	Jun 2023
CCPR Differences-in-Differences Mini-Conference	**Los Angeles, USA**
University of California, Los Angeles.	May 2023
Empirical Tools/Applications in Banking and Macro-Finance	**Barcelona, Spain**
Barcelona School of Economics, summer school	Jul 2022
Workshop on Demand System Asset Pricing	**Online**
Held by Ralph S.J. Koijen and Motohiro Yogo.	Jun 2022
Innovation, Growth, and Production. Models and Data Analysis	**Rome, Italy**
Sapienza, University of Rome. Advanced Course 2022, 17th Edition.	May 2022

Publications

Counterfactual and Synthetic Control Method: Causal Inference with Instrumented Principal Component Analysis ------ Job Market Paper
This paper marching forward the frontier of synthetic control for causal inference. The novel proposed CSC-IPCA method instruments factor loadings with predictive covariates and allows the conventional static factor loadings exhibit time-varying properties. It can handle high-dimensional datasets, reduce bias, and with good asymptotic properties.

Firms' Carbon Emissions and Stock Returns
Working paper

Stock Return Prediction with Multiple Measures Using Neural Network Models
Published on *Financial Innovation*