

Qian Li

Contact Information

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Education

Ph.D. (Candidate), Economics, University of Notre Dame
M.A., Applied Economics, Georgetown University
B.S., Mathematics, Shandong Normal University

Expected Aug. 2023
May 2015
May 2013

Research Interests

Macroeconomics, Monetary Policy, Time Series Econometrics, Machine Learning

Job Market Paper

Quantitative Easing and Welfare Gain under Commitment Monetary Policy at Zero Lower Bound

Abstract: This paper studies the welfare gains from quantitative easing (QE) under commitment monetary policy at the binding zero lower bound (ZLB). First, this paper provides an analytical solution to the equilibrium paths under commitment policy when natural rate shock is deterministic. Second, this paper studies the welfare improvement from commitment monetary policy against discretionary monetary policy and demonstrates the efficacy of the forward guidance at the ZLB. Third, this paper investigates QE at the ZLB under discretionary and commitment policies and quantifies welfare improvement in both cases. Finally, this paper conducts robustness analyses on important parameters and constraints to corroborate the findings of QE's welfare improvement at ZLB.

Working Paper

Broker-Dealer Leverage and Monetary Policy Risk-Taking Channel: Time-Varying Transmission in the US

Work in Progress

Macroeconomic Forecasting: A Comparison of Econometric and Machine Learning Methods

Research Experience

University of Notre Dame

Research assistant to Professor Christiane Baumeister, Fall 2018, Spring 2019

Research assistant to Professor Marinho Bertanha, Fall 2017, Spring 2018

Teaching Experience

University of Notre Dame

Lecturer, Statistics for Economics, Fall 2019, Spring 2020

Teaching Assistant, Game Theory and Strategic Analysis, Professor Kali Rath, Fall 2016

Professional Experience

The World Bank Group

Research Assistant, Development Prospects Group, Aug. 2015 - May 2016

- Analyzed economic and financial data from resources such as Haver Analytics and Bloomberg Terminal.
- Learned and conducted sign-restriction VAR analysis to examine spillovers from the BRICS countries.
- Assisted with emerging economies analysis chapters of the semi-annual report Global Economic Prospects.

Skills

Programming: MATLAB, STATA, Python, Julia, C/C++

Software: Excel, LaTeX, Pycharm, Jupyter, Anaconda, RATS, EViews

Knowledge: Monetary Policy, Time Series Analysis (ARIMA, Bayesian VAR), Econometrics (OLS, Logit, PCA, 2SLS, IV, DiD, RDD), Machine Learning and Neural Network (k-NN, SVM, XGBoost, CNN, RNN/LSTM)

References

Professor Eric Sims (Chair)

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Professor Christiane Baumeister

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Professor Jing Cynthia Wu

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