

Bira Zhahadai

Curriculum Vitae

Department of Economics
Campus Box 8110
North Carolina State University
Raleigh, NC 27695-8110

Phone: +1(617)755-5030
Email: bila@ncsu.edu
Webpage: <https://birazhahadai.com>

Education

-
- **North Carolina State University** Raleigh, NC
 - *Ph.D. in Economics* Expected June 2022
 - *Dissertation*: “Essays on Business Cycles in Emerging Market Economies”
 - *Advisor*: Professor James M. Nason
 - **North Carolina State University** Raleigh, NC
 - *M.A. in Economics* 2017
 - **Northeastern University** Boston, MA
 - *B.S. in Economics, Cum Laude* 2013

Research Interests

-
- Macroeconomics
 - Open Economy Macroeconomics
 - Applied Time Series
 - International Economics
 - Dynamic Equilibrium Models

Teaching Interests

-
- Principles of Macroeconomics
 - Principles of Microeconomics
 - Intermediate Macroeconomics
 - International Economics
 - Environmental Economics
 - Money and Banking

Research Papers

“*Are Business Cycles in Emerging Market Economies Alike?*” (Job Market Paper) [Link](#)

This paper explores the predictions of real business cycle theory on the roles of total factor productivity (TFP) and financial shocks to explain business cycles in emerging market economies (EMEs). I obtain evidence about TFP, price of capital, risk premium, and collateral constraint shocks by estimating structural vector autoregressions (SVARs) on a Brazilian sample from 1999Q1 to 2018Q4 and a Mexican sample from 1997Q1 to 2018Q4. On each sample, two SVARs are estimated. One SVAR is identified by short-run restrictions, and the other is grounded on a long-run identification. Estimates of the SVARs show which shocks matter most for explaining business cycle dynamics in Brazil and Mexico is sensitive to identification. Next, the Brazilian and Mexican business cycles are markedly different, as the contributions of shocks to aggregate fluctuations vary across the two countries. At last, TFP shocks are the main driver of business cycle movements in Brazil and Mexico conditional on the long-run identification. Hence, the findings of this paper suggest although not all business cycles are alike in EMEs, TFP shocks remain the primary driving force of aggregate fluctuations in EMEs.

“*Productivity Shocks, Financial Frictions, and Business Cycles in Emerging Market Economies*”
(Work in Progress)

This paper addresses the question of whether business cycles in emerging market economies (EMEs) are best explained by the permanent total factor productivity (TFP) shock hypothesis or financial frictions. I build a small open economy (SOE) real business cycle (RBC) model with a permanent TFP shock to investigate the role of financial frictions at generating business cycles. The financial frictions are a Kiyotaki and Moore (1997) collateral constraint and an endogenous risk premium in the world real interest rate. The interaction of these financial frictions creates a business cycle propagation mechanism for the TFP shock in the SOE-RBC model that matches aggregate fluctuations in Brazil and Mexico. Results forthcoming.

Teaching Experience

- **Independent Instructor** North Carolina State University
 - *Resource & Environmental Economics* Spring 2022
 - *Principles of Macroeconomics* Fall 2016 and 2017, Spring 2019
 - *Fundamentals of Economics* Summer 2017
- **Lab Instructor** North Carolina State University
 - *Principles of Macroeconomics* Spring 2016 and 2017, Fall 2018
- **Teaching Assistant** North Carolina State University
 - *Macroeconomics I (Ph.D.)* Fall 2017
 - *Macroeconomics II (Ph.D.)* Spring 2018 and 2019
 - *Fundamentals of Macroeconomics (Graduate)* Spring 2022
- **Tutor** Northeastern University
 - *Applied Econometrics* 2011-2013
 - *Intermediate Microeconomics* 2011-2013
 - *Principles of Microeconomics* 2011-2013
 - *Introduction to Computer Science* 2011-2013

Professional Experience

- **Truelight Energy** Boston, MA
 - *Data Analyst* Winter 2013-Spring 2014
- **American Institute for Economics Research** Great Barrington, MA
 - *Research Assistant* Summer 2013
- **Property and Portfolio Research** Boston, MA
 - *Research Assistant* Summer and Fall 2011

Conferences and Presentations

- **Conference** Houston, TX
 - *Southern Economics Association 91st Annual Meeting* November 2021
- **Presentations** Raleigh, NC
 - *NCSU Macroeconomics Seminar* Fall 2021
 - *NCSU Brown-Bag Lunch Seminar* Fall 2016

Awards and Honors

- **GSSP Economics Graduate Fellowship** 2015-2019
 - *North Carolina State University*
- **Advanced Certified Tutor, Level II** 2013
 - *College Reading & Learning Association at Northeastern University*
- **Student Affairs Scholarship** 2010
 - *Northeastern University*

Skills

- **Computing**

- *Julia, Matlab, R, Stata, and L^AT_EX*

- **Languages**

- *English, Mongolian, and Chinese*

References

James M. Nason (Chair)

Department of Economics
North Carolina State University
Phone: +1(919)513-2884
Email: jmnason@ncsu.edu

Daisoon Kim

Department of Economics
North Carolina State University
Phone: +1(919)513-2883
Email: dkim29@ncsu.edu

Lee A. Craig (Teaching Reference)

Department of Economics
North Carolina State University
Phone: +1(919)513-2870
Email: lacraig@ncsu.edu

Giuseppe Fiori

Department of Economics
North Carolina State University
Phone: +1(919)513-2867
Email: gfiori@ncsu.edu

Xiaoyong Zheng (Teaching Reference)

Department of Economics
North Carolina State University
Phone: +1(919)515-4543
Email: xzheng@ncsu.edu