Michael Cai

OFFICE ADDRESS

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CONTACT INFORMATION

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EDUCATION

2019 – Ph.D in Economics, Northwestern University

Advisors: Matthias Doepke (chair), Marios Angeletos, and Matthew Rognlie

2013 – 2017 B.S. summa cum laude, Economics, New York University Stern School of Business

RESEARCH AREAS

Macroeconomics, Behavioral Economics, Time Series Econometrics

JOB MARKET PAPER

Macro Inertia and the Variable Lags of Policy Transmission

This paper quantifies the sources of macroeconomic inertia that policymakers can and cannot influence and analyzes how changes in systematic policy conduct can reduce inertial transmission ("lags"). To isolate policy-invariant inertia due to preferences and technologies, I introduce an approach to identifying parameters in dynamic structural models, which directly uses survey data on expectations in place of traditional assumptions on expectations. Applied to standard consumption-savings models, I find only two simple features are needed to match the dynamic response of consumption to shocks: 1) a high current MPC and 2) a low EIS. There is no need for classic sources of preference inertia, such as habits. In an estimated HANK model with learning disciplined by these estimates and expectations data, inertia emerges endogenously when a measure of belief feedback strength is high but is absent otherwise. This measure is large precisely when the current MPC is high and EIS is low. Stabilizing monetary and fiscal policy can reduce feedback, shortening transmission lags. Monetary-fiscal interactions produce a novel government debt stabilization motive to reduce lags: shortening the timeline for debt repayment diminishes belief feedback from past, stale expectations into future realized demand.

WORK IN PROGRESS

Optimal Long-Run Fiscal Policy with Heterogeneous Agents with Adrien Auclert, Matthew Rognlie, and Ludwig Straub.

We introduce a new approach to characterizing the steady state of dynamic Ramsey taxation problems, and apply this approach to standard calibrations of heterogeneous-agent models a la Aiyagari (1995). In many cases, we find that such Ramsey steady states do not exist, with our results instead pointing to the optimality of long-run immiseration. When Ramsey steady states do exist, they are associated with optimal long-run labor income taxes close to 100%. We show that these conclusions are related to unreasonably strong anticipatory effects of future tax changes.

PUBLICATIONS

Online Estimation of DSGE Models with Marco Del Negro, Edward Herbst, Ethan Matlin, Reca Sarfati, and Frank Schorfheide

The Econometrics Journal: Volume 24, Issue 1, Jan 2021, Pg. C33-C58

DSGE Forecasts of the Lost Recovery with Marco Del Negro, Marc Giannoni, Erica Moszkowski, Pearl Li, and Abhi Gupta

International Journal of Forecasting: Volume 35, Issue 4, Oct-Dec 2019, Pg. 1770-1789

PRESENTATIONS

2018 JuliaCon 2018 (University College London) link

PREVIOUS EMPLOYMENT AND PROFESSIONAL ACTIVITIES

2024 - 2024	Visiting Scholar, Federal Reserve Bank of Chicago
2021 - 2021	Research Officer, International Monetary Fund
	Supervised by Filiz Unsal and Vu Chau
2017 - 2019	Senior Research Analyst, Federal Reserve Bank of New York
	Supervised by Marco Del Negro
2016 - 2017	Research Assistant, New York University Economics Department
	Supervised by Tim Christensen
2016 - 2016	Independent Research, New York University Stern School of Business
	Supervised by Dave Backus

HONORS AND AWARDS

2023 – NBER Dissertation Fellowship in Behavioral Macroeconomics

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