ROHAN SHAH

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Nationality: British (F1 Visa)

Research and Teaching Interests: Macroeconomics, Monetary Economics, Antitrust Economics, and Industrial Organisation Software Skills: Stata, Matlab, Fortran, Eviews

EDUCATION

The Ohio State University	2017 - present
PhD Economics	Expected Completion: May 2023
Dissertation: Essays in Macroeconomics	
Committee: Aubhik Khan (chair), Julia Thomas, Kyle Dem	psey
MA Economics (awarded)	2018
University of Warwick	2004 - 2008
MSC Economics (with Distinction)	2007 - 2008
BSC Economics (1st Class Honours)	2004 - 2007

WORKING PAPERS

Boosting Innovation or Entry: What Works Best? (Job Market Paper)

RESEARCH IN PROGRESS

Firm Size Distribution and the Increase in Aggregate Mark-ups, with Michael Carter

Endogenous Distancing with Aggregate Uncertainty, with Saloni Dattani and Pedro Serôdio

TEACHING EXPERIENCE		
Graduate Teaching Assistant	2018 – present	
PhD Macro Theory 1A	Winter 2019, 2020, 2021	
Principles of Microeconomics	Spring 2020	
Principles of Macroeconomics	Spring 2019	

CONFERENCES AND INVITED PRESENTATIONS 2022

Cleveland State University; The Federal Reserve Bank of Kansas City; Midwest Macro Autumn Conference (scheduled)

2021

Institute for Humane Studies Graduate Conference; The Central Bank of the Dominican Republic

2020

1st Institute for Humane Studies Graduate Conference; The Bridwell Institute for Economic Freedom at Southern Methodist University Workshop series (presented by co-author)

FELLOWSHIPS, GRANTS, AND AWARDS	
Federal Reserve Bank of Kansas City PhD Dissertation Fellowship	2022
Professor J. Graham Smith Memorial Prize in Applied Economics, Ohio State Unive	ersity 2022
Concurrences Antitrust Writing Awards Finalist	2022
Daniel Searle Fellowship, The Institute for Humane Studies	2021
Thomas W Smith Fellowship, The Institute for Humane Studies	2020
University Fellowship, Ohio State University	2017-2018
ACADEMIC SERVICE	
Organiser, OSU macro grad student workshop	Summer 2020
RELEVANT EXPERIENCE	
Graduate Research Assistant, for Julia Thomas and Aubhik Khan	2021 - 2022
Consultant, RBB Economics	2008 - 2017

REFERENCES

Aubhik Khan	Julia Thomas
Department of Economics	Department of Economics
The Ohio State University	The Ohio State University
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PAPER ABSTRACTS

Boosting Innovation or Entry: What Works Best? (Job Market Paper)

I study the effectiveness of policies that try to boost output by incentivising firm Research and Development (R&D). I estimate the effect of a firm's own, and the aggregate level of, R&D on a firm's productivity and find negative spillovers from higher aggregate R&D. I then develop a dynamic general equilibrium model that uses this estimated R&D-productivity relationship. My model incorporates heterogeneous firms making decisions over R&D, physical capital, and debt and matches the joint distribution of firms over R&D and physical capital. I find that policies incentivising firm R&D have a small effect on output due to the negative spillovers from higher aggregate R&D. A policy to subsidise entry instead of R&D achieves twice the boost to output as do R&D-focused policies because it does not result in large negative spillovers. I also find that permanent R&D subsidies or permanent entry subsidies can speed up the economy's recovery from a credit-shock recession, but temporary subsidies have no effect on this recovery time.

Endogenous Distancing with Aggregate Uncertainty, with Saloni Dattani, and Pedro Serôdio

We extend the standard SEIR model to include consumption and labour decisions of households to capture endogenous variations in the transmission rates of a viral infection in the presence of aggregate uncertainty about policy intervention. We explore and contrast the economic and epidemiological effects of various policy interventions: a baseline laissez-faire decentralised equilibrium with no policy intervention, severe restrictions, moderate restrictions, and a conditional lockdown based on the number of hospital admissions. We find that accounting for agents' uncertainty regarding the timing and size of any restrictions being imposed has substantial effects on the outcomes of those policies. For example, even in the laissez-faire baseline case, accounting for this uncertainty means that agents' endogenous responses to increasing infections are smaller than they would be in the absence of this uncertainty. This effect is driven by agents having some non-zero expectation regarding the imposition of a future lockdown and associated reduction in utility, such that they compensate by not reducing their consumption and labour responses by as much as they would without this uncertainty.

Firm Size Distribution and the Increase in Aggregate Mark-ups, with Michael Carter

The size-distribution of firms in the US has shifted rightward over the previous 40 years, such that BDS data indicate the average size of a firm has increased by almost 20% between 1978 (21 employees, on average) and 2016 (25 employees). At the same time, there is evidence (such as that in De Loecker, Eeckhour & Unger (2020)) that firm mark-ups have increased by as much as 27% over the period 1986 - 2016. We investigate the extent to which the rightward shift in the firm-size distribution can explain the increase in mark-ups using a model of heterogeneous firms with endogenous entry and exit. Firms in our model charge a mark-up that varies according to their size via the Kimball aggregator, which allows us to examine the effect of different distributions of firms on the average mark-up. We calibrate our model to match the firm-size distribution in each of 1986 and 2016 and find that the changes in firm size over that timeframe imply an increase in mark-up of 17%. In other words, changes in the firm-size distribution can explain roughly 63% of the observed change in mark-ups over the same period.