Katherine Stapleton

PhD Candidate at Oxford University

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Interest in AI and the Economics of AI Conference

I am very interested in how AI affects trade and global supply chains. My job market paper is looking at how AI adoption in the UK is affecting service sector trade and offshoring. To answer this question, I have merged a dataset on the universe of online job adverts with UK administrative data on service sector trade. I use text analysis with the job adverts to identify adoption of specific forms of AI through a firm's recruitment patterns. I then use these measures to look at how AI adoption affects service sector trade. I additionally use Indian data to study how changes in offshoring are affecting employment in the BPO sector in India.

I also have two other works-in progress on the topic of automation and trade. One uses Spanish firm-level data for the period 1990-2016 to explore how use of robots, CNC machines & flexible manufacturing systems in the manufacturing sector in Spain affected offshoring. The other asks an analogous question of how industrial automation affects offshoring using matched worker-firm data from Denmark.

In addition to my academic research I am also a Research Fellow for the UK's Institute for the Future of Work, a researcher for the Pathways for Prosperity Commission on Technology and Inclusive Development and was a Director for the Rhodes AI Lab. I am really interested in AI adoption in China. I have been setting up a project the impacts of AI on the Chinese manufacturing sector and have spoken at the Oxford China Forum and World Economic Forum on the topic of automation in China.

I have followed the NBER Economics of AI Conference avidly over the past two years and would love to attend. I think it would be incredibly helpful for my research to share ideas with the other attendees and academics.

KATHERINE STAPLETON

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EDUCATION

DPhil in Economics, University of Oxford, Lincoln College 2016-present
Thesis areas: International Trade, Labour, Development. Advisors: Beata Javorcik & Chris Woodruff
Field courses in Advanced Econometrics, International Trade, Economic History & Labour Economics
Visiting PhD Student, Stanford University, hosted by Nick Bloom Spring 2019

MSc in Economics for Development, University of Oxford, Lincoln College 2015
Distinction & awarded the prizes for the Best MSc Thesis & Best Overall Performance

BSc in Economics and Econometrics, University of Nottingham 2013
First Class Honours & awarded the prize for best Undergraduate Economics Thesis

RESEARCH PAPERS

[Job Market Paper In progress] "Artificial intelligence and service sector offshoring" *with Layla O'Kane*

[In progress] "Automation, jobs and trade: firm-level evidence from Spain"

[In progress] "Technology and global value chains: evidence from Danish firms" *written with Friedrich Bergmann*

[In progress] "The Brexit vote and UK labour markets" *written with Beata Javorcik & Ben Kett*

[In progress] "The surprising persistence of the university wage premium in China"

"Automation, global value chains and development: what do we know so far?" *Pathways for Prosperity Commission Research Paper*

RESEARCH AND PROFESSIONAL EXPERIENCE

Pathways for Prosperity Commission on Technology and Inclusive Development, Consultant 2019
UK Institute for the Future of Work, Research Fellow 2018-19
Rhodes Artificial Intelligence Lab, Project Director 2018
Oxford University, Research Assistant for Professor Chris Woodruff 2017
Ministry of Trade and Industry, Rwanda, Senior Economic Advisor (ODI Fellow) 2015-16
PricewaterhouseCoopers (PwC) Economics and Policy Team, Economics Consultant 2013-14
Central Bank of Uganda Research Department, Research Assistant 2013
UK Government Economic Service, Economist Internship 2012

SCHOLARSHIPS, AWARDS & CONFERENCES

NBER Entrepreneurship Research Bootcamp, Boston, USA 2018
Oxford Global Challenge Prize Winner for project on Affordable Housing in African Cities 2017
ESRC Scholarship for MSc and DPhil, Oxford University 2014-present
Luca DAgliano Prize for Best MSc Thesis, Oxford University 2015
George Webb Medley Prize for Best Overall Performance on MSc, Oxford University 2015
Award for the Best Economics Dissertation, Nottingham University 2013
Oliver Pawle Prize for Economics Writing, Nottingham University 2013

TEACHING EXPERIENCE

Stanford University, Stanford House in Oxford, International Economics Undergraduate Tutor 2018
Oxford University, MSc Global Governance and Diplomacy, Quantitative Economics TA 2018
Oxford University, International Economics Undergraduate Tutor 2017