

# Jacob Howard

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## Education

B.A. Economics, International Studies and Economics, University of Memphis, 2012.  
M.A. Economics, University of Memphis, 2014.  
M.A. Economics, University of Colorado, Boulder, 2016.

## Fields of Research

International Trade, Wages and Wage Inequality, Environmental

## Employment

University of Colorado, Boulder 2014-Present

Instructor: Principles of Microeconomics, Intermediate Microeconomics  
Research Assistant: McGuire Center for International Studies

NBER, 2016-Present

Research Assistant, NSF Grant: Trading, Institutions, Product Innovation, and Entrepreneurship

## Working Papers

Endogenous Production Networks and the Labor Market Consequences of Globalization

*This paper highlights the importance of endogenous production networks in exposing workers in non-import competing sectors to trade shocks in other sectors. Firms trade in intermediates to establish a production network, and workers are complements to these intermediates. When there is a trade shock in an import competing sector, workers in any sector whose employer trades with the import competing sector face changes in their nominal wages.*

Regional Environmental Quality and International Trade: The Role of Production Networks

*Joint work with Doyoung Park, University of Colorado at Boulder*

*This paper studies the interaction between trade liberalization and firm production networks in shaping spatial differences in environmental quality within countries. We first analyze the effect of inter-firm trade in intermediate goods on the level of total regional emissions and average emission intensities. Second, we study the effect of trade liberalization on the spatial distribution of firms within countries in a setting with firm-to-firm production networks. We find that regions with relative proximity to foreign markets attract more firms as international trade barriers diminish. This leads to higher total emissions in such regions due to agglomeration forces, whereas spatial selection together with production networks leads to a decline in average emission intensities.*

## Open Research Projects

The Impact of Offshoring and Outsourcing Firm Behaviors on Labor Market Outcomes

*Census Project hosted at the Rocky Mountain Research Data Center*

*This project proposes to answer the following questions. What role do supply chains play in shaping wage inequality? How do these supply chains vary by firm productivity levels, and is there a systematic differential response of these supply chains to an international trade shock? If wages are determined by supply chains, this implies that there will be nominal wage consequences for workers in all sectors of the importing economy. How much do these supply chain changes due to trade shocks spillover into non-import competing sectors? Within all sectors are there heterogeneous responses to trade shocks that vary by firm size and what are the implications of this heterogeneity?*

## Awards

University of Colorado at Boulder:

Leslie Whittington Memorial Fellowship for Excellence in Economics, May 2016

Yordon Prize in Microeconomics, May 2016

Sieglinde Talbott Haller Economics Scholarship, September 2017

Morris E. Garnsey Fellowship in Economics, August 2018

## Conference and Seminar Presentations

"Supply Chains, Wages and International Trade", Southern Economic Association Annual Meeting (November 2017)

"Predicting Destination Firm Size in the Commodity Flows Survey", Rocky Mountain Research Data Center Meeting (2018)

## Software Skills

Julia, Matlab, R, STATA

Last updated: August 22, 2019