Rowan Shi

36 Moore St #16, Princeton NJ 08542 • (510) - 725 - 7894

hs7@princeton.edu • http://rowanxshi.github.io

Placement Director: Steve Redding reddings@princeton.edu • (609) - 258 - 4016

Graduate Administrator: Laura Hedden lhedden@princeton.edu • (609) - 258 - 4006

Fields

International trade, Spatial and Urban Economics Primary

Industrial Organization, International Macroeconomics Secondary

Education

PhD candidate in Economics, Princeton University 2014 -

    Thesis title: International trade with heterogeneous firms and reallocation

    Expected completion: June 2020

Steve Redding
Department of Economics
Princeton University
reddings@princeton.edu
(609) - 258 - 4016

Eduardo Morales
Department of Economics
Princeton University
ecmorale@princeton.edu
(617) - 308 - 7662

Oleg Itskhoki
Department of Economics
Princeton University
itskhoki@princeton.edu
(609) - 258 - 5493

BA in Mathematics and Economics, University of California, Berkeley 2009 - 2014

    Highest Honors in Economics, Distinction in General Scholarship

Job market paper

Solving combinatorial discrete choices in heterogeneous agent models: theory and an application to corporate tax harmonization in the European Union   with Kathleen Hu

    This paper develops a solution method for computing optimal decisions to combinatorial discrete choice problems (CDCPs) in heterogeneous agent settings. With an arbitrary type distribution over any number of differentiated characteristics, it quickly computes the policy *function* mapping the entire type space to corresponding optimal actions. The binary decisions can display either supermodular or submodular interactions. Problems of this structure arise naturally in economic settings, especially in international trade and industrial organization. The proposed algorithm is particularly well suited for estimating or computing general equilibrium models incorporating heterogeneous agents solving CDCPs, including choices on plant locations, input sourcing partners, or export market entry. As an illustration of the algorithm in practice, the paper then turns to evaluating the effects of a counterfactual policy equalizing corporate tax rates across the European Union using a quantitative general equilibrium model where heterogeneous firms optimally select a set of countries in which to operate affiliates.

Works in progress

Brazil's import liberalization and reallocation in its non-traded sector

Awards and fellowships

Summer Fellowship, International Economics Section, Princeton University   2016 - 2019
Doctoral Fellowship, Princeton University   2014 - 2020

Teaching

Course organizer, Introduction to microeconomics, Prof. Kelly Noonan   2018 - 2020
Course organizer, Introduction to microeconomics, Prof. Henry Farber   2019
Teaching assistant, Introduction to microeconomics, Prof. Kelly Noonan   2018
Teaching assistant, Ethics and economics, Prof. Thomas Leonard   2017
Teaching assistant, Introduction to macroeconomics, Prof. Elizabeth Bogan   2016 - 2017

Research experience

Research assistant, Prof. Oleg Itskhoki   2015
Research assistant, Prof. Mark Aguiar   2014
Research assistant, Prof. Yuriy Gorodnichenko   2013