## Rowan Shi

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### Summary

- socially-motivated research economist interested in big-picture humanitarian work
- strong statistical and technical skills, especially in causal inference methods and quantitative computing
- experienced communicator, from writing reports of all lengths, presentating research, and teaching classes
- enthusiastic collaborator enjoying team or partner projects such as co-authored papers
- detail-oriented and organized, resulting from self-directing projects and serving as a large lecture's course organizer

## Education

# PhD (expected) in Economics, *Princeton University*BA in Mathematics and Economics, *University of California, Berkeley*

2020

2014

## Projects

#### Evaluating tax harmonization policy in the European Union, with co-author

2016 -

- designed structural general equilibrium model to predict the effects of tax reform
- fit the model to data on EU corporate taxes, national expenditure, and other aggregate variables
- wrote, deployed, and supervised distributed (parallelized) computational code on remote cluster in Julia

#### An algorithm for fast optimization over a lattice, independent project

2018 - 2019

- created and coded algorithm in Julia
- wrote documentation and gave presentations with usage demonstrations
- theoretically proved the algorithm is always accurate and applicable in many relevant settings
- conducted time trials to show it is 10x faster than existing methods in practice

#### Brazil's tariff cuts and jobs in its nontraded sector, independent project

2017 -

- cleaned, manipulated, and merged worker panel administrative datasets (500M+ obs) for analysis
- devised and ran causal inference strategy incorporating binary outcome and selection correction analysis in R
- gave seminar presentations of findings that Brazil's tariff cuts created ~1M jobs in nontraded (service) industries

#### Does education increase rural-to-urban mobility?, independent project

2019

- integrated and operationalized 3 years of Honduras census data
- constructed and completed instrumental variable causal analysis of school's role on adult outcomes in R
- concluded that each year of early education causes a 5-11 p.p. higher likelihood of living in a city as an adult
- wrote general interest report detailing empirical process and results using R markdown and gglot2

All projects are available at rowanxshi.github.io.

## Other experience

#### Course organizer and teaching assistant, intro to microeconomics; intro to macroeconomics

2018 -

- oversaw team of ~5 teaching assistants and ~10 graders, co-ordinated with professor and university administration
- maintained sensitive student grades information for problem sets, attendance, and exams (200+ student class)
- made arrangements for meetings, exams, and students needing special accommodations
- prepared and gave weekly lectures covering new material to groups of ~20 students
- met with students individually to answer questions and work through problem sets

#### Financial Research Analyst, Dominion Bond Rating Service

2013

- assembled, analyzed, and synthesized data regarding public company pension plans
- contributed to writing report summarizing the state of defined contributions pension plans

## Skills

English, French, Mandarin Chinese R (data.table, dplyr, R markdown), Stata, MATLAB, Julia, LaTeX, CSS yoga, baking desserts, photography, visual design, animals, spicy food languages scripting interests