## Howard Zihao Zhang

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PLACEMENT Placement Chairs: Placement Assistant:

INFORMATION Sandra Black, sblack@columbia.edu Amy Devine, +1 (212) 854-6881

Suresh Naidu, sn2430@columbia.edu aed2152@columbia.edu

RESEARCH INTERESTS Primary Fields: International Trade, Urban Economics

Secondary Field: Real Estate

EDUCATION Ph.D. Candidate in Economics, Columbia University, 2017 - present

M.Phil. Economics, Columbia University, 2017 - 2020 M.A. Economics, Columbia University, 2017 - 2019

A.B. Applied Mathematics, Magna Cum Laude, Harvard University, 2011 - 2015

High Honors in Field, Minor in Computer Science

JOB MARKET PAPER Consumer Cities: The Role of Housing Variety

This paper estimates theoretically-founded housing price indices that account for differences in housing variety availability, where some varieties are available in certain cities but not others. I develop a model of housing demand and city choice that incorporates differentiated housing varieties and the discrete-nature of housing decisions. For estimation, I develop a method to jointly estimate the nests that varieties belong to and the elasticity of substitution across varieties within each nest. I find that households in larger cities benefit from having access to varieties not available in smaller cities. These consumption amenities are quantitatively large: the elasticity with respect to population is a third of the elasticity of housing prices with respect to population. After accounting for consumption

amenities, real income increases with city size.

Working Papers Exporting and Knowledge Diffusion

How do we model and quantify the dynamic gains from exporting? I develop a dynamic trade model where firms innovate and learn from other firms in the destinations they sell to. The evolution of a country's stock of knowledge can be expressed as a function of export flows and the stocks of knowledge of their trading partners. I find evidence that countries in Asia, North America, and Europe, as well as countries in the top two quartiles of TFP growth were able to better absorb foreign insights than other countries. I evaluate whether there are dynamic gains from trade with two counterfactual exercises. First, I measure the impact of changing trade costs between 1962 and 2000. I find small static gains but zero dynamic gains for the world economy. Second, I quantify the dynamic gains from export-induced foreign knowledge flows by simulating a counterfactual where there is no learning from foreign sources. I find that domestic learning compensates for foreign learning: there are large dynamic gains from exporting when there is no domestic learning and small dynamic gains when there is domestic learning.

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IN Progress Decreasing Returns to Scale and Exchange Rate Pass-Through

Shopping Alone: The Impact of the Decline of the American Mall (with Guy Aridor

and Louise Guillouet)

Research Experience Research Assistant for Réka Juhász and Dávid Nagy, Columbia University, 2019

Research Assistant for Andrea Prat, Columbia University, 2019

Research Assistant for Joseph Aldy, Harvard Kennedy School, 2012

TEACHING Experience Columbia University (Teaching Assistant)

Introduction to Econometrics: Fall 2018, Spring 2019, Spring 2020

International Trade: Fall 2019, Spring 2021 Economic Development of Japan: Fall 2020

FELLOWSHIPS AND AWARDS UEA North America Meeting: Prize for Best Student Paper, 2022

Reubens Travel and Research Fellowship, Columbia University, 2021 - 2022

Dissertation Fellowship, Columbia University, 2022 - present Doctoral Fellowship, Columbia University, 2017 - present

Harvard University Center for the Environment Summer Research Fellowship,

2012

Professional Activities Conference Presentations: UEA Summer School 2021, UEA Fall 2021, AREUEA

National 2022, UEA Fall 2022

Referee: Journal of Urban Economics

Organizer of International Trade Colloquium at Columbia University, 2020 - 2022

Non-Academic Employment Analyst, Cornerstone Research, 2015 - 2017

Personal Citizenship: Chinese (U.S. Permanent Resident)

TECHNICAL SKILLS Julia, Stata, SQL, Matlab, R, Python

References David E. Weinstein

dew35@columbia.edu

Carl S. Shoup Professor of the

Japanese Economy Columbia University Donald R. Davis

drdavis@columbia.edu

Ragnar Nurkse Professor of Economics

Columbia University

Bernard Salanié

bsalanie@columbia.edu Professor of Economics Columbia University

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