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Education

Ph.D. Economics, The George Washington University, expected May 2023

M.S. Economics, The George Washington University, May 2018

M.S. Accounting, The Ohio State University, May 2013

B.A. Finance, Accounting, and Management, University of Nottingham, Ningbo, China, July 2012

Research and Teaching Interests

Primary: Environmental Economics, Urban Economics, Applied Microeconomics

Secondary: Transportation Economics, Economics of Education

Other Teaching Interests: Microeconomics, Econometrics, Macroeconomics

Research

Job Market Paper

"Does Docked Bikeshare Affect Property Prices and the Metro Station House Price Gradient? Evidence from Washington, DC's Capital Bikeshare System"

Abstract: Technology-based public bike-sharing systems were introduced in the United States over a decade ago and have gained popularity. *A priori*, bikeshare can have ambiguous effects on residential property prices and the so-called metro station house price gradient, i.e., the slope of the curve depicting the relationship between house prices and distance to the closest metro station. Bikeshare can act as amenities, for example, by providing a solution to the last-mile problem for residents living within a certain radius of metro stations. On the other hand, it can have disamenity effects in the form of increased noise and traffic hazards. House prices increase due to amenity effects and decline owing to disamenity effects. The heterogeneous amenity and disamenity effects at different distances to metro stations, and the extent to which bikeshare and metro rail are complements or substitutes, can affect the metro station house price gradient. This study is the first to examine the impacts of docked bikeshare systems on the metro station house price gradient in the North American context. This paper studies the impacts of docked bikeshare on both residential house prices and the metro station house price gradient in the Washington, DC metropolitan area using a hedonic regression model with difference-in-differences. This study uses detailed property level transaction data from Zillow along with data on the locations and opening dates of Capital Bikeshare stations and metro stations. Results show that introducing bikeshare stations near residential properties has no impact on house prices or the metro station house price gradient. A model is developed to provide possible reasons why house prices and the metro station house price gradient do not change in response to nearby bikeshare station openings.

Working Papers

"Effects of Upgrading Fuel Standards on Air Quality: Evidence from China Gasoline Standard VI Upgrade", with Xiaoying Yang (The George Washington University)

Working in Progress

"Are Public Transit and Bikeshare Substitutes or Complements? Evidence from 31 U.S. Metropolitan Areas", with Xiaoying Yang (The George Washington University)

"Does a Semester-Long Basic Math for Economics Course Improve Students' Performance in Introductory Microeconomics?", with Irene R. Foster and Daniel Mackay (The George Washington University)

Teaching Experience

Instructor, Department of Economics, The George Washington University

Principles of Mathematics for Economics, Spring 2022

Teaching Assistant, Department of Economics, The George Washington University

Principles of Microeconomics (discussion section instructor), and Fall 2017, and Fall 2018, and Fall 2020

Principles of Macroeconomics (discussion section instructor), Spring 2018

Intermediate Microeconomics, Spring 2019 and Spring 2021

Principles of Mathematics for Economics (discussion section instructor), Fall 2019 and Spring 2020

Introduction to Econometrics, Fall 2021 and Fall 2022

Teaching Assistant, Johns Hopkins Center for Talented Youth

Game Theory, Summer 2019

Conference and Seminar Presentations

Mini-Conference for Job Market Candidates (GWU, Washington, DC), May 2022

97th Western Economic Association International Annual Conference (Portland), June 2022

Economics of LGBTQ+ Individuals Virtual Seminar Series, AEA Committee on the Status of LGBTQ+ Individuals in the Economics Profession, October 2022

92nd Southern Economic Association Annual Meeting (Fort Lauderdale), November 2022

Service

Vice President, Student Association of Graduate Economists, 2018-2020

Co-organizer, George Washington University Student Research Conference in Economics, 2019

Honors and Awards

Graduate Fellowship, George Washington University, 2017-2022

Head's Scholarship, The University of Nottingham, Ningbo, China, 2010-2011

Dean's Scholarship, The University of Nottingham, Ningbo, China, 2009-2010

Skills

Programming: Python, GIS, Stata, L^AT_EX, High Performance Computing, Microsoft Office

Languages: English (fluent), Chinese (native)

References

Prof. Arun Malik (Main)

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Prof. Leah Brooks

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Prof. Irene Foster (teaching reference)

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