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EDUCATION

PhD candidate in Economics, University of Washington, Expected Jun 2016

M.A. in Economics, University of Washington, Dec 2013

B.S. in Economics and Mathematics, University of Iowa, Dec 2010

FIELD OF INTEREST COMPUTER SKILLS

Environmental Economics, Health Economics, Applied Microeconometrics

Software: Stata, ArcGIS, Matlab, SPSS, SAS, R, LATEX, MS Office.

TEACHING EXPERIENCE

Department of Economics, University of Washington - Seattle

- Instructor: Intermediate Microeconomics Fall 2014 - Fall 2015
- Instructor: Introduction to Microeconomics Fall 2013 - Summer 2014
- Teaching Assistant: Introduction to Microeconomics Winter 2012 - Spring 2013

RESEARCH EXPERIENCE

Job market paper:

Air Pollution Exposure and Fetal Health: Does A Safety Threshold Exist? Abstract:

This paper estimates the causal impact of fetal exposure to three "criteria air pollutants" on birth weight. I establish a series of hypothetical "safety thresholds" of air pollution and construct an innovative index called "average pollution degree" (APD) that measures the pollution concentrations above each threshold. Matching individual-level natality data with county-level air pollution in the United States from 1991 to 2008, I find that fetuses are vulnerable to very low concentrations of carbon monoxide (CO), especially during the first and last trimesters of pregnancy. Fetuses are not significantly affected by ozone (O3) and sulphur dioxides (SO2) unless their concentrations rise above certain thresholds. My heterogeneity analysis suggests strong gender and racial disparities in the sensitivity to air pollution. In addition, I find maternal smoking and drinking behaviors may act synergetically with air pollution in fetal development. The fact that even a hypothetical safety threshold lying below the current EPA standards would still generate adverse health outcomes indicates that more restrictive regulation is needed to protect fetal health.

Working papers:

The Largest Low Emission Zone of Europe: Traffic and Air Quality in London Abstract:

Low emission zone (LEZ) has been extensively adopted in many European countries

as a clean air strategy. I estimate the effect of the largest LEZ of Europe using a unique dataset on air quality and traffic flow in England from 2005 to 2010. I find that traditional difference-in-differences estimation fails to capture any significant effect of implementing LEZ in Great Britain. I propose external and internal reasons for this failure. Externally, the policy might generate positive spillovers on outside-LEZ regions due to the national flow of subject vehicles. Internally, the policy might induce behavioral adjustments such as substituting toward non-subject vehicles. I provide evidence for each of these reasons.

Economic Incentive-Based Substitution on Heterogeneous Good: Evidence from the U.S. Car Allowance Rebate System

Abstract:

This paper uses a hedonic price model to analyze the heterogenous preferences on vehicle attributes using data under the 2009 Car Allowance Rebate System. I focus on the shifts in both the number of vehicles purchased and the attributes of transacted vehicles induced by this federal stimulus. Using simulation results from the hedonic price model, I find that roughly 73 percent passenger car consumers and 82 percent truck consumers are not likely to purchase the same vehicle without the government rebate. I also find evidence that the stimulus has induced consumers to substitute some vehicle attributes toward fuel efficiency attributes (e.g., MPG) to take advantage of the rebate.

Work in progress:

Income Inequality and Student Achievement: Evidence from a Cross-Country Standardized Test (with Jorge Rogas)

The Impact of Climate Change on Migration of Young Generations

The Effect of Crime Rate on Short-Term Housing Market

Assessing the Environmental and Economic Impacts of Airplane Delays

AWARD FELLOWSHIP Langton Award for Teaching, University of Washington, 2013-14

Preston Scholarship, University of Washington, Fall 2011

Distinguished Undergraduate Student, University of Iowa, 2010

MEMBERSHIP AFFILIATION Graduate Fellow, Center for Environmental Politics, University of Washington

Member, American Economics Association

Member, Association of Environmental and Resource Economics

LANGUAGES

English (Fluent), Chinese (Native)

REFERENCES

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