

# Xiaoying Yang

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## Education

Ph.D. Economics, <b>George Washington University</b>	2023 (expected)
M.S. Economics, <b>George Washington University</b>	2018
B.S. Mathematics and Applied Mathematics, <b>Sun Yat-sen University</b>	2016
International Study Program, <b>University of California, Berkeley</b>	Jan - May 2015

## Research and Teaching Interests

Primary: Applied Microeconomics, Environmental Economics

Secondary: Transportation Economics, Energy Economics, Urban Economics

Others: Econometrics

## Job Market Paper

"Effects of Subsidies and Vehicle Restriction Exemptions on Electric Vehicle Adoption: Evidence from 87 Cities in China"

*Abstract:* This paper examines the effects of subsidies and exemptions from license plate quotas and driving restrictions on electric vehicle (EV) adoption in China. The analysis leverages spatial and temporal variations in national and local EV subsidies using a panel fixed-effects model based on monthly passenger vehicle registration data from 87 Chinese cities from 2016 to 2019. In addition, this study exploits the differential local exposure to a 2017 shift in the national subsidy policy using a difference-in-differences model. The results show that subsidies have positive but heterogeneous effects on EV adoption. Subsidies are most effective in first-tier cities, with a 10,000 RMB increase in subsidies being associated with an 18.77% increase in the EV market share. However, within the same city tier, subsidies are less effective in regions with higher GDP per capita and greater shares of government expenditure allocated to education or environmental protection. Additionally, exempting EVs from driving restrictions and license plate quotas is highly effective in promoting EV adoption. For instance, exemptions from license plate quotas increase EV market shares by over 220%. Results from the difference-in-differences analysis also support the conclusion that the effect of subsidies on EV adoption is positive.

## Publications

Jiang, Bo, Hector Tzavellas, and Xiaoying Yang. "Deposit Competition, Interbank Market, and Bank Profit", *Journal of Risk and Financial Management* 15, no. 5 (2022): 194. <https://doi.org/10.3390/jrfm15050194>

Yang, Xiaoying, Yue Pan, and Huiliang Ling. "TWPR Model Based on PageRank Algorithm for Measuring Influence in Network", *Far East Journal of Mathematical Sciences* 98, no. 2 (2015): 235.

## Working Paper

Effects of Upgrading Fuel Standards on Air Quality: Evidence from China Gasoline Standard VI Upgrade, with *Xinxin Cao*

## Work in Progress

Are Public Transit and Bikeshare Substitutes or Complements? Evidence from 31 U.S. Metropolitan Areas, with *Xinxin Cao*

## Conference Presentations

86<sup>th</sup> Midwest Economic Association Meeting (Minneapolis), March 2022

Mini-Conference for Job Market Candidates, George Washington University, May 2022

97<sup>th</sup> Western Economic Association International Annual Conference (Portland), June 2022

92<sup>th</sup> Southern Economic Association Annual Meeting (Fort Lauderdale), November 2022 (upcoming)

## Research Experience

*Consultant*, World Bank, July - August 2019

*Research Assistant*, School of Mathematics and Computational Science, Sun Yat-sen University, September - December 2015

## Teaching Experience

### *Teaching Assistant*

Principles of Microeconomics (discussion session instructor), George Washington University, Fall 2017-2018, Fall 2019-2021

Principles of Macroeconomics (discussion session instructor), George Washington University, Spring 2019

Intermediate Macroeconomic Theory, George Washington University, Fall 2021-2022

Introduction to Econometrics, George Washington University, Fall 2022

## Service

*Vice President*, Student Association of Graduate Economists, 2017-2020

*Co-organizer*, George Washington University Student Research Conference in Economics, 2018 and 2019

## Fellowships and Awards

Sar and Brita Levitan Endowment Scholarship, George Washington University, 2020-2021

Graduate Fellowship, George Washington University, 2017-2020, 2021-2022

Meritorious Winner of Mathematical Contest in Modeling, 2014

3rd Prize of Contemporary Undergraduate Mathematical Contest in Modeling (Guangdong), 2014

3rd Class Scholarship, Sun Yat-sen University, 2013, 2014

2nd Prize of Mathematical Modeling in Sun Yat-sen University, 2013

## Programming Languages

Matlab, Stata, Python, GIS,  $\text{\LaTeX}$ , R, C, C++.

## References

### **Prof. Arun Malik (Main)**

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Department of Economics  
George Washington University  
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### **Prof. Steven M. Suranovic**

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and International Affairs  
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### **Prof. John Helveston**

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and Systems Engineering  
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### **Prof. Daniel Mackay (teaching reference)**

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