

# SHANJUN LI

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## **CURRENT POSITION**

Kenneth L. Robinson Professor of Applied Economics and Policy, Cornell University, 2019~

Co-Director and Co-Founder, Cornell Institute for China Economic Research, 2015~

Director of Graduate Studies, Graduate Field of Applied Economics and Management, 2020~

Affiliations at Cornell:

Faculty member in the Graduate Field of Economics

Faculty member in the Graduate Field of Public Affairs

Faculty member in the Graduate Field of Regional Science

Faculty member in Environment and Sustainability

Faculty member in the East Asia Program

Faculty affiliate with the Atkerson Center for a Sustainable Future

Faculty affiliate with the Center for Transport Infrastructure

External affiliations:

Research Associate, National Bureau of Economic Research (NBER), 2017~

University Fellow, Resources for the Future, 2017~

Invited Researcher, King Climate Action Initiative J-PAL, 2020~

Adjunct Professor, Hong Kong University of Science and Technology-Guangzhou, 2020~

Adjunct Professor, Jinan University, 2021~

Fellow, The Coase Project at University of Chicago, 2021~

## **PREVIOUS POSITIONS**

Assistant and Associate Professor of Environmental and Energy Economics and Sustainable Enterprise, Cornell University, July 2011-March 2019

Fellow, Resources for the Future, Washington, DC, Sept 2009 - June 2011

Assistant Professor, Department of Economics, Stony Brook University, Sept 2007 - Aug 2009

## **RESEARCH INTERESTS**

Environmental and Energy Economics, Urban and Transportation Economics, Empirical Industrial Organization, Chinese Economy

## **EDUCATION**

Ph.D. in Economics, Duke University, 2007

M.S., Michigan State University, 2002

B.A., Nankai University, 1998

## **PEER-REVIEWED ARTICLES**

- The Cost of Greening Stimulus: A Dynamic Discrete Analysis of Vehicle Scrappage Programs, with Youming Liu and Chao Wei, International Economic Review, forthcoming.
- Designed Quadrature to Approximate Integrals in Maximum Simulated Likelihood Estimation, with Prateek Bansal, Vahid Keshavarzzadeh, Angelo Guevara, and Ricardo A. Daziano., Econometrics Journal, 25(2): 301–321, 2022.
- Adaptation Mitigates the Negative Effect of Temperature Shocks on Household Consumption, with Wangyang Lai, Yanyan Liu, Panle Jia Barwick, Nature Human Behaviour, March 17, 2022
- The Role of Government in the Market for Electric Vehicles: Evidence from China, with Xianglie Zhu, Yiding Ma, Fan Zhang and Hui Zhou, Journal of Policy Analysis and Management, 41(2): 450-485, 2022
- Agricultural Fires and Cognitive Function: Evidence from Crop Production Cycles, with Wangyang Lai, Yanan Li, and Xiaohui Tian, American Journal of Agricultural Economics, 104(1): 190-208, 2022.
- Consumer Boycotts, Country of Origin, and Product Competition: Evidence from China's Automobile Market, with Qi Sun, Fang Wu and Raj Grewal, Management Science, 67(9):5857–5877, 2021.
- Local Protectionism, Market Structure, and Social Welfare: China's Automobile Market, with Panle Jia Barwick and Shengmao Cao, American Economic Journal: Economic Policy, 13(4): 112–151,2021
- China's War on Pollution: Evidence from the First Five Years, with Michael Greenstone, Guojun He and Eric Zou, Review of Environmental Economics and Policy, 15(2):281–299, 2021.
- What Does an Electric Vehicle Replace? with Jianwei Xing and Ben Leard, Journal of Environmental Economics and Management, 107:102432, 2021
- Transportation and the Environment in Developing Countries, with Jianwei Xing, Lin Yang and Fan Zhang, Annual Review of Resource Economics, 12:389-409, 2020.
- Tightening Belts to Buy a Home: Consumption Responses to Rising Housing Prices in Urban China, with Andrew Waxman, Yuanning Liang, Panle Jia Barwick and Meng Zhao, Journal of Urban Economics, 115: 103190, 2020.
- The Marginal Cost of Traffic Congestion: Evidence from a Natural Experiment in Beijing, with Jun Yang and Avralt-od Purevjav, American Economic Journal: Economic Policy, 12(1): 418-453, 2020.
- Does Subway Expansion Improve Air Quality? with Yanyan Liu, Avralt-Od Purevjav, and Lin Yang, Journal of Environmental Economics and Management, 96: 213-235, 2019.
- Brand Names and Consumer Demand: Evidence from China's Automobile Market, with Qi Sun, Fang Wu and Raj Grewal, Journal of Marketing Research, 56(1):158-175, 2019.
- Dynamics of Technology Adoption and the Critical Mass in the Market for Electric Vehicles, with Yiyi Zhou, Journal of Industrial Economics, 2: 423-480, 2018.

- Better Lucky than Rich? Welfare Analysis of Vehicle License Allocations in Beijing and Shanghai, Review of Economic Studies, 85(4): 2389-2428, 2018.
- The Efficiency of Local Government: The Role of Privatization and Public Sector Unions, with Rhiannon Jerch and Matthew E. Kahn, Journal of Public Economics, 154: 95-121, 2017.
- The Market for Electric Vehicles: Indirect Network Effects and Policy Impacts, with Lang Tong, Jianwei Xing and Yiyi Zhou, Journal of the Association of Environmental and Resource Economists, 4(1): 89-133, 2017.
- Efficiency and Environmental Impacts of Electricity Market Restructuring on Coal-fired Power Plants, with Ron Chan, Harrison Fell, and Ian Lange, Journal of Environmental Economics and Management, 81: 1-18, 2017.
- Wheels of Fortune: Subway Expansion and Property Values in Beijing, with Jun Yang, Ping Qin and Shun Chonabayashi, Journal of Regional Science, 56(5), 792-813, 2016.
- The Market Dynamics of Electric Vehicle Adoption, with Zhe Yu and Lang Tong, Transportation Research Part D, 47: 336-356, 2016.
- Public Bus Procurement: The Role of Regulation, Energy Prices and Federal Subsidies, with Matthew E. Kahn and Jerry Nickelsburg, Journal of Urban Economics, 87: 57-71, 2015.
- The Price Evolution of China's Automobile Market, with Junji Xiao and Yimin Liu, Journal of Economics & Management Strategy, 24(4), 2015.
- Assessing the Role of Renewable Energy Policies in Landfill Gas to Energy Projects, with Han Kyul Yoo, Molly Macauley, Karen Palmer and Jhih-Shyang Shih, Energy Economics, 49: 687-697, 2015.
- Are Physicians' Prescribing Decisions Sensitive to Drug Prices? Evidence from a Free-Antibiotics Program, with Ramanan Laxminarayan, Health Economics, 24(2):158-174, 2015.
- A New Look at Residential Electricity Demand Using Household Expenditure Data, with Harrison Fell and Anthony Paul, International Journal of Industrial Organization 33: 37-47, 2014.
- Gasoline Taxes and Consumer Behavior, with Joshua Linn and Erich Muehlegger, American Economic Journal: Economic Policy, 6(4):302-342, 2014.
- How Should Different Countries Tax Fuels to Correct Environmental Externalities? with Ian Parry, Dirk Heine and Eliza Lis, Economics of Energy & Environmental Policy, 3(2), 2014.
- How Important Are Endogenous Peer Effects in Group Lending? Estimating a Static Game of Incomplete Information, with Yanyan Liu and Klaus Deininger, Journal of Applied Econometrics, 28(5): 864-882, 2013.
- Evaluating "Cash-for-Clunkers": Program Effects on Auto Sales and the Environment, Joshua Linn and Elisheba Spiller, Journal of Environmental Economics and Management, 65(2): 165-193, 2013.

- Firm Competitiveness and EU Emissions Trading System, with Ron Chan and Fan Zhang, Energy Policy, 63: 1056-1064, 2013.
- Traffic Safety and Vehicle Choice: Quantifying the Arms Race on American Roads, Journal of Applied Econometrics, 27(1): 34-62, 2012.
- Is There an Energy Paradox in Fuel Economy? with Antonio Bento and Kevin Roth, Economics Letters, 115(1): 44-48, 2012.
- Cost-Effectiveness of Electricity Energy Efficiency Programs, with Toshi Arimura, Richard Newell and Karen Palmer, Energy Journal, 33(2): 63-99, 2012.
- Lose Some, Save Some: Obesity, Automobile Demand, and Gasoline Consumption, with Yanyan Liu and Junjie Zhang, Journal of Environmental Economics and Management, 61(1): 52-66, 2011.
- Gasoline Prices, Government Support, and the Demand for Hybrid Vehicles, with Arie Beresteanu, International Economic Review, 52(1): 161-182, 2011.
- How Do Gasoline Prices Affect Fleet Fuel Economy? with Chris Timmins and Roger von Haefen, American Economic Journal: Economic Policy, 1(2): 113-137, 2009.

## **OTHER PUBLICATIONS**

- How to reach 50 percent zero-emission vehicles, with Christopher Knittel, and James Stock, Op-Ed at The Hill, September 1, 2021.
- Environmental Protection or Environmental Protectionism? Evidence from Tailpipe Emission Standards in China, with Jie Bai, Danxia Xie and Hui Zhou, AEA: Papers and Proceedings, 111: 381–385, 2021
- Introduction to valuing and managing the environment: A special issue in honor of Gregory L. Poe, with David R. Lee, Kathleen Segerson, and Christian A. Vossler, Resource and Energy Economics, 63: 101190, 2021
- Mobility as a Service (MaaS): The Importance of Transportation Psychology, with Geoff Tomaino, Jasper Teow, Ziv Carmon, Leonard Lee, Moshe Ben-Akiva, Charlene Chen, Wai Yan Leong, Nan Yang and Jinhua Zhao, Marketing Letters, 31: 419–428, 2020.
- On market dynamics of electric vehicle diffusion, with Zhe Yu and Lang Tong, 52nd Annual Allerton Conference on Communication, Control, and Computing, 1051-1057, 2014.
- Getting Energy Prices Right: from Principle to Practice, with Ian Parry, Eliza Lis, and Dirk Heine, Book (183 pages), International Monetary Fund Press, 2014.

## **WORKING PAPERS**

- From Fog to Smog: the Value of Pollution Information, with Panle Jia Barwick, Liguo Lin and Eric Zou, under revision at *American Economic Review*
- The Morbidity Cost of Air Pollution: Evidence from the World's Largest Payment Network, with Panle Jia Barwick, Deyu Rao and Nahim bin Zahur, under revision at *Review of Economics and Statistics*
- The Mortality Impact of Fine Particulate Matter in China, with Yazhen Gong, Nick Sanders, Guang Shi, under revision at *Journal of Environmental Economics and Management*

- Dynamic Efficiency of Resource Allocation: Evidence from License Plate Allocations in Beijing, with Youming Liu and Caixia Shen, under revision at *Rand Journal of Economics*
- Coronavirus Pandemic and Unemployment: Evidence from Mobile Phone Data in China, with Panle Jia Barwick, Yongheng Deng, Xinfei Huang and Teng Li, under revision at *Journal of Urban Economics*
- Road Rationing Policies and Housing Markets, with Rhiannon Jerch, Panle Jia Barwick and Jing Wu, under revision at *Journal of Urban Economics*
- Efficiency and Equity Impacts of Urban Transportation Policies with Equilibrium Sorting, with Panle Jia Barwick, Andrew Waxman, Jing Wu and Tianli Xia, under revision at *American Economic Review*
- Entry Deregulation, Market Turnover, and Efficiency: China's Business Registration Reform, with Panle Jia Barwick, Luming Chen and Xiaobo Zhang
- Improved Transportation Infrastructure Facilitates Adaptation to Pollution and Temperature Extremes, with Panle Jia Barwick, Dave Donaldson, Yatang Lin and Deyu Rao
- The Welfare Effects of Passenger Transportation Infrastructure: Evidence from China's High Speed Rail Network, with Panle Jia Barwick, Dave Donaldson and Yatang Lin
- Quid Pro Quo, Knowledge Spillovers, and Industrial Quality Upgrading: Evidence from the Chinese Auto Industry, with Jie Bai, Panle Jia Barwick and Shengmao Cao
- Attribute-based Subsidies for Energy Efficient Products with Market Power, with Panle Jia Barwick and Hyuk-soo Kwon
- The Global Diffusion of Electric Vehicles: Lessons from the First Decade, with Binglin Wang, Muxi Yang, Fan Zhang
- Policies for Electrifying the Light-Duty Vehicle Fleet in the United States, with Cassandra Cole, Michael Droste, Christopher Knittel and James Stock

## **GRANTS AND AWARDS**

- NBER Grant on Economics of Transportation, Panle Jia Barwick, Chris Knittel, Shanjun Li, Jim Stock, 2021-2022
- Cornell Rapid Grant on COVID19, Panle Jia Barwick and Shanjun Li, 2020-2021
- CTECH grant, Panle Jia Barwick and Shanjun Li, 2017-2018. Infrastructure Investment and Community Health
- 3ie Impact Evaluation, Shanjun Li and Yanyan Liu, 2017-2019. The Impacts of Transportation Infrastructure Investment in Beijing
- Cornell Lehman Fund, Panle Jia Barwick and Shanjun Li, 2016-2017. China's Transportation Policies
- Cornell ISS Theme Project, Jeremy Wallace, Panle Jia Barwick, Eli Friedman, Shanjun Li, Jessica Chen Weiss, 2016-2019, China's Cities
- NSF CREATIV Grant, Lang Tong and Shanjun Li, 2012-2016, an engineering and economic pathway to EV-based transportation

- NET Institute Summer Grant, Shanjun Li and Yiyi Zhou, 2015, The Critical Constraint in the EV Market
- USDA Hatch Funding, 2012-2015, Renewable Energy and Employment
- Cornell Lehman Fund, 2013-2014, Transportation Policies in China
- Cornell ACSF Rapid Response Fund, 2012-2013, Supplement to NSF Grant
- Cornell ISS Grant, 2012-2013, Employment Impacts of Renewable Energy Investment
- Cecil and Ida Green Honors Professor, Texas Christian University, 2017-2018
- Cornell ACSF SSHA Resident Fellowship, Spring 2017
- Cornell College of Agriculture and Life Sciences Early Achievement Award, 2015
- Public Utility Research Prize for the best paper in regulatory economics, IIOC 2014
- Outstanding Graduate TA Award, Duke Economics, Fall 2005, Spring 2005

## **GRADUATE&POSTDOC PLACEMENT** (\*indicates committee chair)

**Post-doc:** Eric Zou (AP, University of Oregon); Ziyi Zhang (Postdoc, Princeton); Youming Liu (Economist, Bank of Canada)

**PhD:** Wooyoung Jeon (Korea Research Institute); Ben Leard (Research Fellow, Resources for the Future); Scarlett Zuo (Data Scientist, Zurich); Kuming Chang (Ewha School of Business); Esther Chiew (Postdoc, Cornell); Teevrat Garg (AP, UC-San Diego); Parul Sharma (Economist at SEC); Shun Chonabayashi (YP, World Bank); Leah Bevis (AP, OSU); Taha Kasim (AP at Furman); Richard Klotz (AP, Colgate); Andrew Simon (AP, Fordham); Dennis Tai (Travix International); Chen Wang (hedge fund); Andrew Waxman (AP, ASU); Zhe Yu (Fellow, China Electricity Research Institute); Jennifer Cisse (USAID); Sanket Roy (AP, American U. of Sharjah); Yiwei Wang (Center for Governmental Research); Jianwei Xing\* (AP, Peking), Rhiannon Jerch\* (AP, Temple), Tom Eisenberg (AP, U of Delaware); Jing Qian\* (Research Associate, Morgan Stanley), Prateek Bansal (postdoc, Cambridge); Nahim bin Zahur (AP, Queens); Avralt-Od Purevjav\* (postdoc, U of Bern); Diego Cardoso (AP, Purdue); Yuanning Liang\* (AP, Peking U); Lin Yang\* (AP, HKUST); Lu Liao (AP, Renmin U); Deyu Rao\* (AP, HKUST);

**PhD in Progress:** Muxi Yang\*; Hui Zhou\*; Xiaozhong Sun (CRP); Binglin Wang\*; Yiding Ma; Hyuk-soo Kwon (Econ); Wenzheng Li (CRP); Xiaozhong Sun (CRP); Luming Chen (Econ); Tianli Xia (econ); Yukun Wang\*(Econ)

**MS Completed:** Muhammad Jawad Khan (Professor in Pakistan); Gregory Lane (Berkeley PhD); Elizabeth Spink (Harvard Kennedy PhD); Han Kyul Yoo\* (Maryland PhD); Pei Zhu\* (Energy analyst in UK); Jing He\* (Citibank); Xiaoyang He (IFPRI); Sogol Kananizadeh\* (Jones Lang Lasalle); Jing Qian (Dyson PhD); Yijia Tang; Jianwei Xing\* (Dyson PhD); Yuanyuan Pan\* (Axtria); Kaihang Shi\* (China Ministry of Transportation); Boya Wang\* (IQPC); Lin Yang\* (Dyson PhD); Zhaoyu Zeng\* (Unionpay Advisors); Jingyuan Wang\* (University of Chicago); Ruyu Chen (Dyson PhD); Deyu Rao\* (Dyson PhD); Qingrun Meng (Analysis Group); Jidong Ma\* (China Development Bank); Binzhe Wang\* (MIT PhD); Congyan Han\* (Wisconsin-Madison PhD); Dingyi Li (Dyson PhD); Yikuan Ji\* (Maryland PhD); Jing Li (Yale PhD); Changlun Lin (Cornell PhD); Haotian Wu (Ohio State PhD)

## **TEACHING**

- AEM 7100, Econometrics (PhD)
  - Spring 2012-2017, 2019, enrollment (30, 34, 20, 35, 27, 32, 34), evaluation (4.9/5.0, 4.8, 4.9, 4.6, 4.9, 4.8, 4.4)
- AEM4510 , Environmental Economics (undergraduate)
  - Spring 2012-2015, 2019, enrollment (41, 50, 52, 55, 64), evaluation (4.2/5.0, 4.5, 4.6, 4.3, 4.6)
- AEM 7120, Applied Microeconomics (PhD)
- AEM 7150-7151, Dyson 2nd-Year Paper (PhD)

## **UNIVERSITY SERVICE**

- 2020-2021: College Faculty Advisory Committee; Dyson Graduate Studies Committee (Chair); Cornell China Center Faculty Advisory Committee
- 2019-2020: Dyson Faculty Review Committee; Environmental Econ Hiring Committee (co-chair); MPS Admission Committee; Cornell China Center Faculty Advisory Committee
- 2018-2019: Hotel School Real Estate Finance Search Committee; SC Johnson College of Business Dean's Search Committee; Cornell China Center Faculty Advisory Committee; MPS Admission Committee; Tenure Promotion Committee
- 2017-2018: Dyson Environmental Econ Search Committee (co-chair), College of Business Dean's Search Committee, ACSF Faculty Advisory Committee, Faculty Steering Committee for ACSF-TNC Research RFP, CIPA MPA Admission Committee
- 2016-2017: Dyson Graduate Admission Committee; Dyson Dean Search Committee; Dyson Environmental Econ Search Committee (chair); CCB Faculty Governance Committee; CCB Vision and Mission Committee; ACSF Faculty Advisory Committee; Faculty Steering Committee for Cornell China Center Initiative; Cornell Sustainability Initiative Task Force; Committee on Cross-college Major in Environment and Sustainability, CIPA MPA Admission Committee; Environmental and Urban Seminars Co-Organizer

## **PROFESSIONAL SERVICE**

**Editor:** Journal of the Association of Environmental and Resource Economists 2021~

**Co-Editor:** Journal of the Association of Environmental and Resource Economists 2016~2020

**Associate Editor:** China Economic Review 2018~

Resource and Energy Economics 2014~2020

**Editorial Board:** Journal of Urban Economics 2018~

Review of Environmental Economics and Policy 2020~

Journal of Environmental Economics and Management 2011~2020

Journal of the Association of Environ. and Resource Economists 2014~2016

**Committee:** IIOC Public Utility Research Prize Committee 2015-2017

Wallace Oates Outstanding Doctoral Dissertation Award (AERE) 2018~

JAERE Best Paper Award Committee 2020-2021

External Review Committee, Dept of Economics, National U. of Singapore 2022

**Conference Organizer:** Northeast Environmental and Energy Policy Workshop (2012, 2013, 2017-2019); Workshop on the Economics of Energy, Environment and Climate (Peking U., 2017-2019); The Economics of Low-Carbon Markets Conference (Brazil, annual since 2013)