

SHANJUN LI

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CURRENT POSITIONS

Denning Professor in Global Sustainability, Stanford University

Professor, Environmental Social Sciences, Stanford Doerr School of Sustainability

Senior Fellow, Freeman Spogli Institute for International Studies

Director of the Sustainability & Energy Transition Program, Stanford Center on China's Economy and Institutions

PREVIOUS POSITIONS

Kenneth L. Robinson Professor of Applied Economics and Policy, Cornell University (on leave from 07/2025)

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

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

Director of Graduate Studies, Applied Economics and Management, Cornell University, 07/2020~06/2023

Assistant and Associate Professor of Environmental and Energy Economics and Sustainable Enterprise, Cornell University, 07/2011~03/2019

Fellow, Resources for the Future, Washington, DC, 09/2009~06/2011

Assistant Professor, Department of Economics, Stony Brook University, 09/2007~08/2009

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~

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

Adjunct Professor, Jinan University, 2021~2024

Short-term Consultant, the World Bank, 2018~2024

Adjunct Professor, HKUST~Guangzhou, 2020-2023

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. in Agricultural Economics, Michigan State University, 2002

B.A. in International Economics, Nankai University, 1998

WORKING PAPERS

- Quid Pro Quo, Knowledge Spillovers, and Industrial Quality Upgrading: Chinese Auto Industry
Jie Bai, Panle Jia Barwick, Shengmao Cao, Shanjun Li
conditional acceptance at *American Economic Review*
- The Dynamic Efficiency of Resource Allocation: Evidence from License Plate Allocations in Beijing
Youming Liu, Shanjun Li, Caixia Shen
R&R at *Rand Journal of Economics*
- Attribute-Based Subsidies and Market Power: An Application to Electric Vehicles
Panle Jia Barwick, Hyuk-soo Kwon, Shanjun Li
R&R at *Journal of Political Economy*
- Transportation Networks, Short-term Mobility, and Pollution Exposure: Evidence from High-Speed Rail
Panle Jia Barwick, Dave Donaldson, Shanjun Li, Yatang Lin, Deyu Rao
- Drive Down the Cost: Learning by Doing and Government Policies in the Global EV Battery Industry
Panle Jia Barwick, Hyuk-Soo Kwon, Shanjun Li, and Nahim B. Zahur
- Climate Change and Market Power
Shanjun Li, Jack Ma, Ivan Rudik, and Hui Zhou
- Range Anxiety
Panle Jia Barwick, Shanjun Li, and Tianli Xia

PEER-REVIEWED ARTICLES

- Industrial Policies and Innovation: Evidence from the Global Automobile Industry
Panle Jia Barwick, Hyuk-Soo Kwon, Shanjun Li, Yucheng Wang, and Nahim B. Zahur
International Journal of Industrial Organization, forthcoming
- Entry Deregulation, Market Turnover, and Efficiency: China's Business Registration Reform
Panle Jia Barwick, Luming Chen, Shanjun Li, Xiaobo Zhang
Review of Economics and Statistics, forthcoming
- The Healthcare Cost of Air Pollution: Evidence from the World's Largest Payment Network
Panle Jia Barwick, Shanjun Li, Deyu Rao, Nahim bin Zahur
Review of Economics and Statistics, forthcoming
- Efficiency and Equity Impacts of Urban Transportation Policies with Equilibrium Sorting
Panle Jia Barwick, Shanjun Li, Andrew Waxman, Jing Wu, Tianli Xia
American Economic Review, 114(10): 3161–3205, 2024.
- Decarbonizing passenger transportation in developing countries: Lessons and perspectives
Shanjun Li, Binglin Wang, Hui Zhou
Regional Science and Urban Economics, 107, 2024
- The Impact of Road Rationing on Housing Demand and Sorting
Rhiannon Jerch, Panle Jia Barwick, Shanjun Li, Jing Wu
Journal of Urban Economics, 140: 103642, 2024
- From Fog to Smog: the Value of Pollution Information
Panle Jia Barwick, Shanjun Li, Liguang Lin, Eric Zou
American Economic Review, 114(5):1338-81, 2024
- Commercial Casualties: Political Boycotts and International Disputes
Panle Jia Barwick, Shanjun Li, Jeremy Wallace, Jessica Weiss
Journal of East Asian Studies, 23(3):387-410, 2023
- Coronavirus Pandemic and Unemployment: Evidence from Mobile Phone Data in China
Teng Li, Panle Jia Barwick, Yongheng Deng, Xinfei Huang, Shanjun Li
Journal of Urban Economics, 135:103543, 2023

- The Mortality Impact of Fine Particulate Matter in China: Evidence from Trade Shocks
Yazhen Gong, Shanjun Li, Nick Sanders, Guang Shi
Journal of Environmental Economics and Management, 117:102759, 2023
- The Cost of Greening Stimulus: A Dynamic Discrete Analysis of Vehicle Scrappage Programs
Shanjun Li, Youming Liu, Chao Wei
International Economic Review, 63(4): 1561-1594, 2022
- Designed Quadrature to Approximate Integrals in Maximum Simulated Likelihood Estimation
Prateek Bansal, Vahid Keshavarzzadeh, Angelo Guevara, Shanjun Li, Ricardo A. Daziano
Econometrics Journal, 25(2): 301–321, 2022.
- Adaptation Mitigates the Negative Effect of Temperature Shocks on Household Consumption
Wangyang Lai, Shanjun Li, Yanyan Liu, Panle Jia Barwick
Nature Human Behaviour, March 17, 2022
- The Role of Government in the Market for Electric Vehicles: Evidence from China
Shanjun Li, Xianglie Zhu, Yiding Ma, Fan Zhang, Hui Zhou
Journal of Policy Analysis and Management, 41(2): 450-485, 2022
- Agricultural Fires and Cognitive Function: Evidence from Crop Production Cycles
Wangyang Lai, Shanjun Li, Yanan Li, Xiaohui Tian
American Journal of Agricultural Economics, 104(1): 190-208, 2022
- Consumer Boycotts, Country of Origin, and Product Competition
Qi Sun, Fang Wu, Shanjun Li, Raj Grewal
Management Science, 67(9):5857–5877, 2021
- Local Protectionism, Market Structure, and Social Welfare: China's Automobile Market
Panle Jia Barwick, Shengmao Cao, Shanjun Li
American Economic Journal: Economic Policy, 13(4): 112–151, 2021
- China's War on Pollution: Evidence from the First Five Years
Michael Greenstone, Guojun He, Shanjun Li, Eric Zou
Review of Environmental Economics and Policy, 15(2):281–299, 2021
- What Does an Electric Vehicle Replace?
Jianwei Xing, Ben Leard, Shanjun Li
Journal of Environmental Economics and Management, 107:102432, 2021
- Transportation and the Environment in Developing Countries
Shanjun Li, Jianwei Xing, Lin Yang, Fan Zhang
Annual Review of Resource Economics, 12:389-409, 2020
- Tightening Belts to Buy a Home: Consumption Responses to Rising Housing Prices
Andrew Waxman, Yuanning Liang, Shanjun Li, Panle Jia Barwick, Meng Zhao
Journal of Urban Economics, 115: 103190, 2020
- The Marginal Cost of Traffic Congestion: Evidence from a Natural Experiment in Beijing
Jun Yang, Avralt-od Purevjav, Shanjun Li
American Economic Journal: Economic Policy, 12(1): 418-453, 2020
- Does Subway Expansion Improve Air Quality?
Shanjun Li, Yanyan Liu, Avralt-Od Purevjav, Lin Yang,
Journal of Environmental Economics and Management, 96: 213-235, 2019
- Brand Names and Consumer Demand: Evidence from China's Automobile Market
Qi Sun, Fang Wu, Raj Grewal, Shanjun Li
Journal of Marketing Research, 56(1):158-175, 2019
- Dynamics of Technology Adoption and the Critical Mass in the Market for Electric Vehicles
Yiyi Zhou, Shanjun Li
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
Rhiannon Jerch, Matthew E. Kahn, Shanjun Li
Journal of Public Economics, 154: 95-121, 2017
- The Market for Electric Vehicles: Indirect Network Effects and Policy Impacts
Shanjun Li, Lang Tong, Jianwei Xing, 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
Ron Chan, Harrison Fell, Ian Lange, Shanjun Li
Journal of Environmental Economics and Management, 81: 1-18, 2017
- Wheels of Fortune: Subway Expansion and Property Values in Beijing
Shanjun Li, Jun Yang, Ping Qin, Shun Chonabayashi
Journal of Regional Science, 56(5), 792-813, 2016
- The Market Dynamics of Electric Vehicle Adoption
Zhe Yu, Shanjun Li, Lang Tong
Transportation Research Part D, 47: 336-356, 2016
- Public Bus Procurement: The Role of Regulation, Energy Prices and Federal Subsidies
Shanjun Li, Matthew E. Kahn, Jerry Nickelsburg
Journal of Urban Economics, 87: 57-71, 2015
- The Price Evolution of China's Automobile Market
Shanjun Li, Junji Xiao, Yimin Liu
Journal of Economics & Management Strategy, 24(4), 2015
- Assessing the Role of Renewable Energy Policies in Landfill Gas to Energy Projects
Shanjun Li, Han Kyul Yoo, Molly Macauley, Karen Palmer, Jhih-Shyang Shih
Energy Economics, 49: 687-697, 2015
- Are Physicians' Prescribing Decisions Sensitive to Drug Prices?
Shanjun Li, Ramanan Laxminarayan
Health Economics, 24(2):158-174, 2015
- A New Look at Residential Electricity Demand Using Household Expenditure Data
Harrison Fell, Shanjun Li, Anthony Paul
International Journal of Industrial Organization 33: 37-47, 2014
- Gasoline Taxes and Consumer Behavior
Shanjun Li, Joshua Linn, Erich Muehlegger
American Economic Journal: Economic Policy, 6(4):302-342, 2014
- How Should Different Countries Tax Fuels to Correct Environmental Externalities?
Ian Parry, Dirk Heine, Shanjun Li, Eliza Lis
Economics of Energy & Environmental Policy, 3(2), 2014
- How Important Are Endogenous Peer Effects in Group Lending? Estimating a Static Game
Shanjun Li, Yanyan Liu, Klaus Deininger
Journal of Applied Econometrics, 28(5): 864-882, 2013
- Evaluating "Cash-for-Clunkers": Program Effects on Auto Sales and the Environment
Shanjun Li, Joshua Linn, Elisheba Spiller
Journal of Environmental Economics and Management, 65(2): 165-193, 2013
- Firm Competitiveness and EU Emissions Trading System
Ron Chan, Shanjun Li, 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?
Antonio Bento, Shanjun Li, Kevin Roth
Economics Letters, 115(1): 44-48, 2012

- Cost-Effectiveness of Electricity Energy Efficiency Programs
Toshi Arimura, Shanjun Li, Richard Newell, Karen Palmer
Energy Journal, 33(2): 63-99, 2012
- Lose Some, Save Some: Obesity, Automobile Demand, and Gasoline Consumption
Shanjun Li, Yanyan Liu, Junjie Zhang
Journal of Environmental Economics and Management, 61(1): 52-66, 2011
- Gasoline Prices, Government Support, and the Demand for Hybrid Vehicles
Arie Beresteanu, Shanjun Li
International Economic Review, 52(1): 161-182, 2011
- How Do Gasoline Prices Affect Fleet Fuel Economy?
Shanjun Li, Chris Timmins, Roger von Haefen
American Economic Journal: Economic Policy, 1(2): 113-137, 2009

OTHER PUBLICATIONS

- An Introduction to Distributional Consequences of New Energy Technologies and Policies
Catie Hausman, Arik Levinson, Shanjun Li
Journal of the Association of Environmental and Resource Economists, Nov. 2024
- How to spend one trillion dollars: the US decarbonization conundrum
Peter Christensen, Patrick Baylis, Teevrat Garg, Shanjun Li, Gordon C McCord, Erich Muehlegger, Erica Myers, Emma Noble Smith, David S Rapson
Nature, Vol 634, Oct. 2024
- An Introduction to the Special Issue on Urban economics and the Environment
Matthew Freedman, Shanjun Li
Regional Science and Urban Economics, July 2024
- Evaluating Urban Transportation Policies
Panle Jia Barwick, Shanjun Li
The Reporter, No 2, June 2023
- Policies for Electrifying the Light-Duty Vehicle Fleet in the United States
Cassandra Cole, Michael Droste, Christopher Knittel, Shanjun Li, James Stock
AEA: Papers and Proceedings, 113:316-322, May 2023
- How to reach 50 percent zero-emission vehicles
Christopher Knittel, Shanjun Li, James Stock
The Hill, Op-ed, September 1, 2021
- Environmental Protection or Environmental Protectionism? Tailpipe Emission Standards in China
Jie Bai, Shanjun Li, Danxia Xie, 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
David R. Lee, Shanjun Li, Kathleen Segerson, Christian A. Vossler
Resource and Energy Economics, 63: 101190, 2021
- Mobility as a Service (MaaS): The Importance of Transportation Psychology
Geoff Tomaino, Jasper Teow, Ziv Carmon, Leonard Lee, Moshe Ben-Akiva, Charlene Chen, Wai Yan Leong, Shanjun Li Nan Yang, Jinhua Zhao
Marketing Letters, 31: 419–428, 2020
- On market dynamics of electric vehicle diffusion
Zhe Yu, Lang Tong, Shanjun Li
52nd Annual Allerton Conference on Communication, Control, and Computing, 1051-1057, 2014
- Getting Energy Prices Right: from Principle to Practice
Ian Parry, Eliza Lis, Dirk Heine, Shanjun Li
International Monetary Fund Press, Book (183 pages), 2014

GRANTS AND AWARDS

- NSF Grant on Learning by Doing in the Global Electric Vehicle Battery Industry, Panle Jia Barwick and Shanjun Li, 2024-2027.
- Sloan Foundation Grant on Transportation Fellowship in Economics, Engineering and Policy, Josh Linn, Kate Whitefoot, Ricardo Daziano, Shanjun Li, Anna Stefanopoulou, 2023-2025
- NBER Grant on the 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 AND POSTDOC PLACEMENT (*indicates committee chair/co-chair)

Post-doc: Eric Zou (AP, U of Michigan, 2018-19); Ziye Zhang (Data Scientist, Microsoft, 2018-2020); Youming Liu (Economist, Bank of Canada, 2019-2021); Yucheng Wang (AP, U of Sydney, 2024)

PhD: Wooyoung Jeon (Korea Research Institute, 2014); Ben Leard (Research Fellow, Resources for the Future, 2014); Scarlett Zuo (Data Scientist, Zurich, 2014); Kuming Chang (Ewha School of Business, 2015); Esther Chiew (Postdoc, Cornell, 2015); Teevrat Garg (AP, UC-San Diego, 2015); Parul Sharma (Economist at SEC, 2015); Leah Bevis (AP, OSU, 2016); Taha Kasim (AP at Furman, 2016); Richard Klotz (AP, Colgate, 2016); Andrew Simons (AP, Fordham, 2016); Dennis Tai (Travix International, 2016); Chen Wang (hedge fund, 2016); Andrew Waxman (AP, ASU, 2016); Yiwei Wang (Center for Governmental Research, 2016); Zhe Yu (Fellow, China Electricity Research Institute, 2017); Jennifer Cisse (USAID, 2017); Sanket Roy (AP, American U. of Sharjah, 2017); Prateek Bansal (postdoc, Cambridge, 2018); Jianwei Xing* (AP, Peking, 2018), Rhiannon Jerch* (AP, Temple, 2019), Tom Eisenberg (AP, U of Delaware, 2019); Jing Qian* (Research Associate, Morgan Stanley, 2019), Nahim bin Zahur (AP, Queens, 2019); Avralt-Od Purevjav* (postdoc, U of Bern, 2020); Lu Liao (AP, Renmin U, 2020); Shun Chonabayashi (AP, Soka University, 2021); Diego Cardoso (AP, Purdue, 2021); Yuanning Liang* (AP, Peking U, 2021); Lin Yang* (AP, HKUST-Guangzhou, 2021); Deyu Rao* (AP, HKUST, 2022); Hyuk-soo Kwon* (AP, Chicago Harris, 2023); Muxi Yang* (Bates White, 2023)*; Hui Zhou* (AP, U of Rhode Island, 2023); Yukun Wang* (Analysis Group, 2023); Zhengyuan Wu (Citibank, 2023); Zhiyun Li (UCLA Anderson Forecast, 2023); Luming Chen (AP, Michigan, 2024); Mengwei Lin (Berkeley Research Group, 2024); Xiaozheng Sun (Colgate, 2024); Yiding Ma (postdoc, DTU, 2024); Binglin Wang* (AP, NUS, 2024); Weiliang Tan (AP, Claremont McKenna, 2025)

MS: Muhammad Jawad Khan (Balochistan U. of Info. Tech, 2013); Gregory Lane (Berkeley PhD, 2013); Han Kyul Yoo* (Maryland PhD, 2013); Elizabeth Spink (Harvard Kennedy PhD, 2014); Pei Zhu* (Energy analyst in UK, 2014);

Jing He* (Citibank, 2014); Xiaoyang He (IFPRI, 2014); Yijia Tang (2014); Jianwei Xing* (Dyson PhD, 2015); Sogol Kananizadeh* (Jones Lang Lasalle, 2016); Jing Qian (Dyson PhD, 2016); Yuanyuan Pan* (Axtia, 2016); Kaihang Shi* (China Ministry of Transportation, 2016); Boya Wang* (IQPC, 2016); Lin Yang* (Dyson PhD, 2016); Zhaoyu Zeng* (Unionpay Advisors, 2016); Jingyuan Wang* (University of Chicago, 2017); Ruyu Chen (Dyson PhD, 2017); Deyu Rao* (Dyson PhD, 2017); Qingrun Meng (Analysis Group, 2017); Jidong Ma* (China Development Bank, 2018); Binzhe Wang* (MIT PhD, 2018); Congyan Han* (Wisconsin-Madison PhD, 2019); Dingyi Li (Dyson PhD, 2019); Yikuan Ji* (Maryland PhD, 2020); Jing Li (Yale PhD, 2020); Changlun Lin (Cornell PhD, 2021); Haotian Wu (Ohio State PhD, 2021); Zijian Zheng* (Huawei, 2021); Luming Tan* (Guangzhou Planning Commission, 2021); Yongfan Zhao* (Cornell PhD, 2023); Yuerong Wang* (HKUST PhD, 2024)

PROFESSIONAL SERVICE

Co-Editor: Journal of Public Economics 2024~

Co-Editor: International Journal of Industrial Organization 2023~

Editor: Journal of the Association of Environmental and Resource Economists 2021~24

Co-Editor: Journal of the Association of Environmental and Resource Economists 2016~20

Associate Editor:

China Economic Review 2018~

Resource and Energy Economics 2014~20

Guest Editor:

Journal of Environmental Economics and Management, China Special Issue 2024~2025

Regional Science and Urban Economics, special issue on the environment 2022~2024

Proceedings of the National Academy of Sciences 2023~2024

Editorial Board:

Journal of Urban Economics 2018~

Review of Environmental Economics and Policy 2020~

Journal of Environmental Economics and Management 2011~20

Journal of the Association of Environ. and Resource Economists 2014~16

Committee:

IIOC Public Utility Research Prize Committee 2015-17

Wallace Oates Outstanding Doctoral Dissertation Award (AERE) 2018~22

JAERE Best Paper Award Committee 2020~22

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

Conference Organization:

China Environmental Economics Tour 2025

Chinese Association of Environmental and Resource Economics Annual Conference 2023~25

NBER project on Distributional Consequences of New Energy Policies 2022~24

Northeast Workshop on Energy Policy and Environmental Econ. 2012~13, 2017~19, 2023

Workshop on the Economics of Energy, Environment and Climate Peking U. 2017~19

The Economics of Low-Carbon Markets Conference U. of Sao Paulo 2013~19