

RELEVANT POSITIONS HELD:

2022-Present Technical Assistance Advisor, International Monetary Fund
2021-Present Associate Professor, Indiana University School of Public and Environmental Affairs
2015-2021 Assistant Professor, Indiana University School of Public and Environmental Affairs
2012-2015 Fellow, Resources for the Future
2012-2015 Visiting Assistant Professor of Economics, Cheung Kong Graduate School of Business
2005-2007 Research Analyst, The Brookings Institution
2004 Analyst, Charles Rivers Associates
2000-2003 Manager of Business Operations and Strategies, RedWhale Software Corporation

SHORT-TERM AND TEMPORARY POSITIONS

2021 Short Term Consultant, World Bank Climate Change Carbon Markets
2018-2021 Research Consultant, King Abdullah Petroleum Studies and Research Center
2019 Short Term Consultant, Development Research Group, the World Bank
2019 Short Term Consultant, Climate Change Group, the World Bank
2013-2015 Senior Research Fellow, the Environment for Development initiative
2008 Visiting Fellow, Shanghai Academy of Development

EDUCATION:

Ph.D., Economics, UC San Diego, 2012.
MA, Economics, UC Santa Barbara, 2005.
BA, Economics, Stanford University, 2000. Minor: Chemistry.

PUBLICATIONS:

“Choosing to Diet: The Effect of Vehicle Ownership Restriction Policy on China’s New Car Sales, Fuel Consumption and Tailpipe Greenhouse Gas Emissions,” with Rubal Dua, Wei-min Hu, and Arthur Lin Ku. Forthcoming, *Transportation Research Part D: Transport and Environment*.

“Informal Transportation as a Complement and Substitute in Beijing,” with Jun Yang. Forthcoming, *Research in Transportation Business & Management*.

“The Effect of Owning a Car on Travel Behavior: Evidence from the Beijing License Plate Lottery,” with Jun Yang, Ping Qin, and Josh Linn. *Journal of Environmental Economics and Management*, 2020, 99, with Joshua Linn, Ping Qin, and Jun Yang.

“Imitating to Export,” *China Economic Review*, 2019, 53, pages 254-270, with Xiaoyang Li.

“Vehicle Ownership Restrictions and Fertility in Beijing,” *Journal of Development Economics*, 2018, 135, pages 85-96, with Joshua Linn, Ping Qin, and Jun Yang.

“Environmental Policy in the Presence of an Informal Sector,” *Journal of Environmental Economics and Management*, 2018, 90, pages 61-77, with Antonio Bento and Mark Jacobsen.

“Efficacy of Command-and-Control and Market-Based Environmental Regulation in Developing Countries,” *Annual Review of Resource Economics*, 2018, 10, with Allen Blackman and Zhengyan Li.

“The Effects of Subway Expansion on Traffic Conditions: Evidence from Beijing,” *Journal of Environmental Economics and Management*, 2018, 88, pages 114-133, with Jun Yang, Shuai Chen, Ping Qin, and Fangwen Lu.

“Environmental Policy in the Presence of Induced Technological Change,” *Environmental and Resource Economics*, 2018, 71 (1), pages 279-299, with Hiroaki Yamagami.

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“A Review of Beijing’s Vehicle Lottery: Short-term Effects on Vehicle Growth and Fuel Consumption,” *Energy Policy*, 2014, 75, pages 157-166, with Jun Yang, Ying Liu, and Ping Qin.

“Fiscal Decentralization and Environmental Infrastructure in China,” *The B.E. Journal of Economic Analysis and Policy*, 2013, 13 (2), pages 733-759, with Junjie Zhang.

“Tax Evasion and Optimal Environmental Taxes.” *Journal of Environmental Economics and Management*, 2013, 66 (3), pages 656-670.

WORKING PAPERS:

“The Effect of Vehicle Ownership Restrictions on Female Labor Supply,” with Joshua Linn, Ping Qin, and Jun Yang. Revisions requested, *Journal of Labor Economics*.

“The Welfare Cost of Beijing’s Lottery Policy — Evidence from a Contingent Valuation Survey,” with Ping Qin, Yifei Quan, Joshua Linn, and Jun Yang. Revisions requested, *Journal of Benefit-Cost Analysis*.

“The Effect of Subway Expansions and Fare Changes on Driving: Evidence from Beijing,” with Yucheng Wang and Lei Zhang.

“Carbon Pricing and Inflation,” with Roberton C. Williams III and Johannes Pfeifer.

“Are Carbon Taxes More Efficient in Industrializing Countries? Comparing China and India to the United States,” with Richard Carson and Mark Jacobsen.

OTHER PUBLICATIONS:

“Supporting the Government of Botswana in Designing a Carbon Tax,” (lead author). World Bank Group Partnership for Market Readiness.

“Carbon Tax Guide: A Handbook for Policy Makers,” (co-authored with many other investigators). World Bank, Washington, DC.

“Analysis on the Influencing Factor of Tax Inspection under the Tax-sharing System” (with Li Hua). *Finance and Trade Economics*, 3 (2011).

“Can Carbon Taxes be Good for China and the United States?” Paulson Papers on Energy and Environment, September 2015.

TEACHING EXPERIENCE:

2015 - Present	International Environmental Policy, Public Program Evaluation, Environment and People
2014	Managerial Statistics (MBA, CKGSB).
2013, 2014	Sustainability Management in China (MBA, CKGSB).
2011	Market Imperfections & Policy (Undergraduate, UCSD).
2007 – 2012:	Teaching Assistant: Energy Economics, Environmental Economics, Intermediate Microeconomics, Decisions Under Uncertainty, Corporate Finance, Financial Accounting. (Undergraduate, UCSD).

HONORS, GRANTS, AND FELLOWSHIPS:

2022	Tobias Center for Innovation in International Development Scholarly Engagement Grant
2014	National Science Foundation of China, Grant 71403279, “Cost and Behavioral Changes in Beijing’s car lottery.” (~\$33,000)
2011	Clive Granger Research Fellowship, UCSD

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2011	Research Grant, Center on Emerging and Pacific Economies
2011	Hsiao Memorial Economics Scholarship, the Asian Pacific Fund
2011	Young Professional and Graduate Student Travel Grant, AAEA Trust
2010	Mini-grant, UC Center of Energy and Environmental Economics (~\$10,000)
2010-2012:	Dissertation Fellowship, Department of Economics, UCSD
2008-2010:	Graduate Summer Research Award, Department of Economics, UCSD
2007	Merit Award for Outstanding Research Assistance, The Brookings Institution
2007	Passed Certified Public Accounting (CPA) exam

CASE STUDIES AUTHORED:

“Monetizing the Social Enterprise,” CKGSB Case Center, August 2014.

PRESENTATIONS AND INVITED SEMINARS:

2022	AERE Summer Conference, Midwest Economics Association
2021	AERE Summer Conference, Western Economics Association International Summer Conference, China Meeting of the Econometric Society
2020	AERE Summer Conference, World Congress of the Econometric Society (cancelled), Association for Public Policy Analysis and Management International Conference (cancelled)
2019	World Bank, Environment for Development Colombia, AERE 2019 Summer Conference, Midwest Economics Association, International Energy Workshop, Asian Meeting of the Econometric Society, Western Economic Association International Summer Conference, Association for Public Policy Analysis and Management International Conference
2018	Policy Levers for Promoting Fuel-Efficient Mobility, 12th Annual Meeting of the Environment for Development Initiative, Heartland Environmental and Resource Economics Workshop, China Meeting of the Econometric Society, International Energy Workshop 2018, World Congress of Environmental and Resource Economists 2018.
2017	American Economic Association (AEA) Annual Meeting, AERE 2017 Summer Conference, China Meeting of the Econometric Society
2016	Invited speaker for National Committee on U.S.-China Relations China Town Hall, NBER Energy and Environmental Economics Spring Conference, AERE 2016 Summer Conference, Asian Meeting of the Econometric Society, Indiana University, 4 th Canadian Ph.D. and Early Career Workshop in Environmental Economics and Policy, Aoyamagakuin University.
2015	American Economic Association (AEA) Annual Meeting, University of Kansas, Indiana University, Environment for Development Annual Meeting, Association for Budgeting and Financial Management Annual Meeting.
2014	Asian Meeting of the Econometric Society, China Meeting of the Econometric Society, World Congress of Environmental and Resource Economists (WCERE Istanbul), Conference on Industrial Upgrading and Urbanization (co-author presentation), Renmin University, Peking University, Fudan University, Shanghai University of Finance and Economics.
2013	Renmin University, Environment for Development 2013 Meetings
2012	13 th Occasional California Workshop on Environmental and Resource Economics , AERE 2012 Summer Conference (Sponsored Session), Cheung Kong Graduate School of Business, National University of Singapore Department of Economics, National University of Singapore Lee Kuan Yew School of Public Policy, Resources for the Future, University of Maryland, University of Massachusetts at Amherst, University of Oregon, University of South Carolina, Williams College
2011	Southern Economic Association, AAEA & NAREA Joint Annual Meeting, 2 nd Annual UC Energy and Environmental Economics Conference, AERE 2011 Summer Conference, Association for Public Economic Theory
2010	4 th World Congress of Environmental and Resource Economists (WCERE Montreal), 11 th Occasional California Workshop on Environmental and Resource Economics
2009	11 th Annual Colorado University Environmental and Resource Economics Workshop

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JOURNAL REFEREE: *Journal of Environmental Economics and Management, Journal of the Association of Environmental and Resource Economists, Environmental and Resource Economics, Journal of Policy Analysis and Management, Energy Policy, Contemporary Economic Policy, Foundations and Trends in Microeconomics, Ecological Economics, Environment and Development Economics, Journal of Comparative Economics, International Review of Economics and Finance, Sustainability, Journal of Transport Geography, China Economic Review*

PROFESSIONAL SERVICE:

AERE committee member, Publication of Enduring Quality Award
Ad hoc reviewer for NSF Economics Program

POLICY BRIEFS, PRESS COVERAGE:

“Chinese Families: the license plate lottery will reduce the urban fertility rate? Yes, this is real,” Thepaper.cn (in Chinese), November 28, 2018.
“Yes: Earth-saving tax makes economic sense,” Tribune News Service, April 13, 2017.
“India has the most polluted cities, yet the world doesn’t pay attention,” Mashable, December 4, 2015.
“China gets a little more fresh air,” Bloomberg Businessweek, September 3, 2015.
“China Slowly Starts to Tame Its Traffic,” Bloomberg Businessweek, June 3, 2015.
“China readies national carbon market to fight climate change,” Associated Press, May 23, 2015.
“Lessons for Beijing’s Smog From the City of Angels,” Bloomberg Brief, April 28, 2015.
“Can Carbon Taxes be Good for China and the United States?” Paulson Institute Paper on Energy and Environment, April 21, 2015.
“Smog and China’s Olympic Bid – a hurdle or an opportunity?” Forbes Asia, January 8, 2015.
“Potential Business Opportunities for PM 2.5,” Nikkei BP Online, November 21, 2014.
“How Serious is the PM 2.5 Problem in Beijing?” Nikkei BP Online, October 31, 2014.
“Clearing the Smog on China’s Anti-Pollution Strategy,” Bloomberg Brief, October 2014.
“China and Russia Relations: Politics in the Pipeline,” CKGSB Knowledge, October 7, 2014.
“China’s War on Air Pollution Shows More Promise than Reports Indicate,” Forbes Asia, August 6, 2014.
“China Pollution Controls’ Short-Term Costs Outweighed by Long-Term Benefits,” Bloomberg Brief, April 3, 2014.
“Carbon taxes could curb the use of offshore tax havens,” ClimateWire, September 20, 2013.
“Pipe Dreams: Can China Extract Its Shale Gas Reserves?” CKGSB Knowledge, March 21, 2013.

LANGUAGES: English (native), Chinese (conversational), Spanish (basic)