

# JUNJIE ZHANG

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<b>INTERESTS</b>	Environmental and resource economics, applied econometrics	
<b>EDUCATION</b>	PhD in Environmental and Resource Economics, Duke University	2003-2008
	MS in Environmental Engineering, Tsinghua University	2001-2003
	BS in Environmental Engineering, Tsinghua University	1999-2001
	BA in Environmental Economics, Renmin University of China	1996-2001
<b>EMPLOYMENT</b>	<b>Duke Kunshan University</b> , Kunshan, Jiangsu, China Environmental Research Center Master of Environmental Policy (iMEP) Program Director and Associate Professor of Environmental Economics 2016-	
	<b>Duke University</b> , Durham, NC, USA Nicholas School of the Environment Associate Professor of Environmental Economics 2016-	
	<b>University of California, San Diego</b> , La Jolla, CA, USA School of Global Policy and Strategy Associate Professor of Environmental Economics 2015-2016 Assistant Professor of Environmental Economics 2008-2015	
<b>OTHER POSITIONS</b>	Chinese Academy Environmental Science	2017-
	Associate Director, Subcommittee on Environmental Economics	
	East Asian Association of Env. & Resource Economics, Auditor	2017-
	Nicholas Institute, Duke University, Advisory Board Member	2016-
	Professional Association for China's Environment, Board Member	2015-
	Asia Society, Senior Adviser	2012-
	Marine Resource Economics, Associate Editor	2011-2016
	UCE <sup>3</sup> , UC Santa Barbara, Visiting Scholar	Fall 2011
<b>PUBLICATIONS</b>	Morris, S. D. and J. Zhang (Forthcoming). "Validating China's Output Data Using Satellite Observations". <i>Macroeconomic Dynamics</i> .	
	Yang, Y., J. Zhang, and C. Wang (2018). "Forecasting China's Carbon Intensity—Is China on Track to Comply with Its Copenhagen Commitment?" <i>The Energy Journal</i> 39.2.	
	Zhang, P., O. Deschenes, K. Meng, and J. Zhang (2018). "Temperature Effects on Productivity and Factor Reallocation: Evidence from a Half Million Chinese	

Manufacturing Plants". *Journal of Environmental Economics and Management* 88, pp. 1–17.

Zhang, J. and Q. Mu (2017). "Air pollution and defensive expenditures: Evidence from particulate-filtering facemasks". *Journal of Environmental Economics and Management*.

Zhang, J., Z. Wang, and X. Du (2017). "Lessons learned from China's regional carbon market pilots". *Economics of Energy & Environmental Policy* 6.2, pp. 1–20.

Zhang, P., J. Zhang, and M. Chen (2017). "Economic impacts of climate change on agriculture: The importance of additional climatic variables other than temperature and precipitation". *Journal of Environmental Economics and Management* 83, pp. 8–31.

Wang, C., Y. Yang, and J. Zhang (2015). "China's sectoral strategies in energy conservation and carbon mitigation". *Climate Policy* 15, pp. 60–80.

Ghanem, D. and J. Zhang (2014). "Effortless perfection: Do Chinese cities manipulate air pollution data?" *Journal of Environmental Economics and Management* 68.2, pp. 203–225.

Zhang, J. and C. Wang (2014). "China's hydrofluorocarbon challenge". *Nature Climate Change* 4.11, pp. 943–945.

Bi, J., O. Young, R. Costanza, L. Liu, R. Kaspersen, Y. Qi, D. Guttman, K. Jiang, D. Mazmanian, S. Zhang, J. Zhang, G. Osherenko, R. Percival, B. Zhang, H. Wang, P. He, and M. Liu (2014). "Same dream, different beds: Can America and China take effective steps to solve the climate problem?" *Global Environmental Change* 24.1, pp. 2–4.

Liu, A. and J. Zhang (2013). "Fiscal decentralization and environmental infrastructure in China". *B.E. Journal of Economic Analysis and Policy* 13.2, pp. 733–759.

Zhang, J., J. Fleming, and R. Goericke (2012). "Fishermen's perspectives on climate variability". *Marine Policy* 36.2, pp. 466–472.

Zhang, J. and M. Smith (2011a). "Estimation of a generalized fishery model: A two-stage approach". *Review of Economics and Statistics* 93.2, pp. 690–699.

Li, S., Y. Liu, and J. Zhang (2011). "Lose some, save some: Obesity, automobile demand, and gasoline consumption". *Journal of Environmental Economics and Management* 61.1, pp. 52–66.

Zhang, J. and M. Smith (2011b). "Heterogeneous Response to Marine Reserve Formation: A Sorting Model approach". *Environmental and Resource Economics* 49.3, pp. 311–325.

Zhang, J. and C. Wang (2011). "Co-benefits and additionality of the Clean Development Mechanism: An empirical analysis". *Journal of Environmental Economics and Management* 62.2, pp. 140–154.

Zhang, J. (2011). "Behavioral response to stock abundance in exploiting common-pool resources". *B.E. Journal of Economic Analysis and Policy* 11.1.

Smith, M., J. Zhang, and F. Coleman (2008). "Econometric modeling of fisheries with complex life histories: Avoiding biological management failures". *Journal of Environmental Economics and Management* 55.3, pp. 265–280.

Smith, M., J. Zhang, and F. Coleman (2007). "Structural modeling of marine reserves with Bayesian estimation". *Marine Resource Economics* 22.2, pp. 121–136.

Smith, M., J. Zhang, and F. Coleman (2006). "Effectiveness of marine reserves for large-scale fisheries management". *Canadian Journal of Fisheries and Aquatic Sciences* 63.1, pp. 153–164.

**OTHER  
PUBLICATIONS**

Auffhammer, M., C.-Y. C. L. Lawell, J. Bushnell, O. Deschenes, and J. Zhang (2016). "Economic considerations: Cost-effective and efficient climate policies". In: *Bending the Curve: Ten Scalable Solutions for Carbon Neutrality and Climate Stability*. Ed. by V. Ramanathan. Vol. 2. 1. Collabra. Chap. 4, pp. 1–14.

Zhang, J. (2013). "The incentives for China's climate actions". *International Affairs Forum* 4.1, pp. 27–31.

Zhang, J. (2012). *Delivering Environmentally Sustainable Economic Growth: The Case of China*. Asia Society Policy Report.

Zhang, J., S. Zeng, and J. Chen (2004). "A Cost-Effectiveness Analysis for Urban Wastewater Reuse and Long Distance Water Transfer". *China Water & Wastewater (Chinese)* 20.11, pp. 22–24.

Zhang, J., Y. Zhang, J. Chen, and T. Zhang (2003). "Residential willingness-to-pay for reclaimed water". *China Water & Wastewater (Chinese)* 19.6, pp. 96–98.

Zhang, J., J. Zou, and J. Chen (2003a). "Emission reduction costs in fuel switching". In: *Studies on Climate Change: Progress and Outlook (Chinese)*. Ed. by X. Lu. China Meteorological Press.

Zhang, J., J. Zou, and J. Chen (2003b). "On the dynamic CO<sub>2</sub> emission baselines in the thermal power sector". In: *Studies on Climate Change: Progress and Outlook (Chinese)*. Ed. by X. Lu. China Meteorological Press.

Zou, J., J. Chen, J. Zhang, C. Wang, N. Ai, and X. Qi (2001). "Why did the Bush Administration withdraw the U.S. commitment to control CO<sub>2</sub> emissions?" *Environmental Protection (Chinese)* 5, pp. 36–38.

**SELECTED  
HONORS &  
AWARDS**

John V. Krutilla Research Stipend	2011
Hellman Fellowship	2011
Dr. S.-Y. Hong Award for Outstanding Article	2008
Joseph L. Fisher Doctoral Dissertation Award	2007
Award for Outstanding Graduates in Tsinghua University	2003
Award for Outstanding College Students in Beijing	1999

<b>MAJOR GRANTS</b>	National Natural Science Foundation of China #71773043, PI	2018-2022
	"An Empirical Study of Air Pollution Cost through the Defensive Expenditure Approach"	
	National Natural Science Foundation of China #71773062, co-PI	2018-2022
	"Impacts of Air Pollution on Labor Market and Economy: Analysis through Coupling Econometric and CGE Models"	
	National Natural Science Foundation of China #71771010, PI	2017-2018
	"Analysis of the Potential Risks and Policy Responses of the United States' Withdrawal from the Paris Agreement"	
<b>CONSULTING SERVICES</b>	U.S. National Science Foundation #1600267, PI	2016-2019
	"Coastal SEES Collaborative Research: Climate change impacts on the sustainability of key fisheries of the California Current System"	
	UC Center for Energy and Environmental Economics, PI	2012-2014
	"Air Pollution and Avoidance Behavior: Information and Misinformation"	
	U.S. National Oceanic and Atmospheric Administration #T03503, PI	2010-2012
"The Impact of Climate Change on Fishery Production"		
<b>SEMINARS &amp; CONFERENCES</b>	2018:	
	AEA, Philadelphia	
	2017:	
	EU-Shenzhen ETS Conference	
	China Environment Chamber of Commerce	
	Nanfang Daily	
	MEP Chinese Academy of Environmental Planning	
	Sun Yat-sen University, School of Government	
Chinese Society for Environmental Sciences, Env. Econ., Chengdu		
Wuhan University, Conference on Law and Economics		
Harvard Project East Asia Workshop, Shanghai		
Nicholas Institute of Environmental Policy Solutions, Duke University		
Nicholas School of the Environment, Duke University		
Chinese Academy of Sciences, Institute of Science and Development		
Asian Development Review (ADR) Conference, Seoul, South Korea		

Green China Development Forum, Heilongjiang  
Kubuqi International Desert Forum, Inner Mongolia  
Duke Kunshan Workshop on Electricity Market Reform, Beijing (organizer)  
Duke Kunshan Workshop on Cost-Benefit Analysis, Beijing (organizer)  
Ji'Nan International Forum, Shandong  
Duke International Forum, Duke Kunshan University (organizer)  
Hong Kong University of Science and Technology, Division of Social Science  
Asia Society Workshop on Carbon Market Linkage, Hong Kong  
Shanghai Jiaotong University, Antai College of Economics and Management  
Stanford & RFF 2017 China GHG Policy Workshop, Palo Alto

**2016:**

Harvard University Workshop on China's Carbon Market, Beijing  
Council on Foreign Relations, New York City  
Wuhan University, School of Economics and Management  
Wuhan University, School of Law  
Chinese Academy of Environmental Science, 2016 Green Finance Summit  
Southwestern University of Economics and Finance  
Chinese Society for Environmental Sciences, Env. Econ. (organizer)  
Shanghai Business Education and Training Center  
JiNan University, Institute for Economic and Social Research  
INECE, Next Generation Compliance and Enforcement, Beijing  
Tsinghua University, Green Cities in Asia, Beijing  
Fudan University, RICE/CCES Salon  
Fudan University, School of Economics  
CCICED, Workshop on Cost-Benefit Analysis, Beijing  
Chinese Academy of Sciences, Institute of Science and Development  
Chinese Academy of Sciences, Nanjing Institute of Geography and Limnology  
Nicholas Institute for Environmental Policy Solutions, Durham, NC, USA  
CESPN, E-webinar  
Zhejiang University of Technology, School of Environment  
Nanjing University, School of the Environment  
Eco Forum Global, Guiyang Shanghai Forum  
Mindshare Energy Symposium: Alberta, Canada  
UC Davis, Department of Agricultural and Resource Economics  
UCSB Confucius Institute Environment Conference: Santa Barbara, CA  
King Abdullah Petroleum Studies and Research Center: London, UK  
Society for Benefit-Cost Analysis: Washington, DC

**Earlier Conferences:** AAEA 2007; AERE Summer Conference 2011, 2012, 2014;  
All-UC Conference in Energy and Environmental Economics 2013, 2014 ASSA  
2008, 2010, 2011, 2014, 2015; Camp Resources XXI: Wilmington 2014; GEF  
China Climate Technology Needs Assessment Conference 2012; Governors'  
Global Climate Summit 2009 Heartland Workshop on Environmental and Re-  
source Economics 2014; IIFET 2006; International Conference on EU Environ-  
mental Policies and Their Enlightenment 2001; NBER, Conference on the Eco-  
nomics of Environmental Protection in China 2014; Occasional California Work-  
shop: UC Santa Barbara 2013, 2015 Professional Association for China's En-

vironment: Nanjing, China 2015; UCSD Food & Fuel for the 21st Century Symposium 2015; UCSD Renewable Energy Conference 2012 (organizer); US-AEE/IAEE: Anchorage, AK 2013 Shanghai Forum 2013

**Earlier Seminars:** Aquarium of the Pacific; Aspen Congressional Program; Beijing University of Chemical Technology, School of Economics & Management; Claremont McKenna College, The Robert Day School; Duke Kunshan University: Kunshan, China; Duke University, Nicholas School of the Environmental; Georgia Institute of Technology, School of Economics; Resources for the Future; Iowa State University, Department of Economics; Joint Institute for Marine and Atmospheric Research, Honolulu, HI; King Abdullah Petroleum Studies and Research Center: Riyadh, Saudi Arabia; Korea Development Institute; Nanjing University, School of the Environment Pacific Islands Fisheries Science Center, Honolulu, HI; Peking University, School of Economics; Sam Houston State University, Department of Economics; Shanghai University of Finance and Economics, School of Economics; Soongsil University, Department of Economics; Stanford University, Shorenstein APARC; The University of New Mexico, Department of Economics; Tsinghua University, School of the Environment, School of Public Policy and Management; UC Institute on Global Conflict & Cooperation; UC Davis, Agricultural and Resource Economics; UCLA, Luskin School of Public Affairs; UC San Diego, Department of Economics, IR/PS, SIO; UC Santa Barbara, Department of Economics; University of Hawaii at Manoa, Department of Economics; University of Southern California, School of International Relations; Xi'an Jiaotong University, School of Finance and Economics

## REFEREE SERVICES

**Journals:** *American Journal of Agricultural Economics, Applied Energy, B.E. Journal of Economic Analysis and Policy, Canadian Journal of Agricultural Economics, Climate Change Economics, Climatic Change, Ecological Economics, Economic Inquiry, Energy Policy, Environment and Development Economics, Environmental Economics and Policy Studies, Environmental Science and Technology, Frontiers of Environmental Science and Engineering, International Journal of Sustainable Transportation, Journal of the Association of Environmental and Resource Economists, Journal of Cleaner Production, Journal of Environment and Development, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Industrial Ecology, Journal of Public Economics, Land Economics, Marine Resource Economics, Philosophical Transactions B, Regional Science and Urban Economics, Resource and Energy Economics, Review of Economics and Statistics, Science of the Total Environment, World Bank Economic Review, World Development*

**Grants:** Alaska Sea Grant College Program, Maine Sea Grant College Program, National Oceanic and Atmospheric Administration, National Science Foundation, Ohio Agricultural Research and Development Center

**Associations:** Agricultural and Applied Economics Association, Association of Environmental and Resource Economists, European Association of Environmental and Resource Economists, IEEE Green Technologies Conference, World Congress of Environmental and Resource Economics

**Publishers:** MIT Press, Princeton University Press, Routledge, Wiley-Blackwell

**TEACHING**

**Duke Kunshan:**

Environmental Economics (iMEP)  
Chinese Environmental Policy (GLS)

**UC San Diego:**

Data and Methods (Economics PhD)  
International Environmental Policy and Politics (GPS Masters)  
Sustainable Development (GPS Masters)  
Chinese Energy and Environmental Policy (GPS Masters)  
Intro to Marine Biodiversity, Conservation, and Global Change (SIO/IGERT)  
Natural Resource Economics (Economics PhD)  
Economics of Energy Policy (GPS Masters)  
Econ Prep (GPS Masters)  
Environmental Capstone (co-teaching, GPS Masters)

**ADVISING**

**UC San Diego:** Ben Gilbert (Economics '11, University of Wyoming), Kevin Novan (Economics '12, UC Davis), Anthony Liu (Economics '12, RFF and CK-GSB), Dalia Ghanem (Economics '13, UC Davis), Tamara L. Sheldon (Economics '15, University of South Carolina), Matthew Gibson (Economics '15, Williams College), William Leung (Economics '15, UC Davis), Jacob Johnson (Economics '16)

**Other Institutions:** Peng Zhang (UC Santa Barbara '16, Hong Kong Polytechnic University)

**MEDIA  
COVERAGE**

**International:** Asia Development Bank, Asia Society, CCTV America, Channel NewsAsia, ChinaFile, CNN, Edmonton Journal, E&E News, Financial Times, Forbes, Gas 2, Guardian, International Business Times, Oil and Gas Journal, Scientific American, South China Morning Post, The Diplomat, The International, The Straight Dope, Wall Street Journal

**Chinese:** Xinhua, People's Daily, Guangming Daily, Caixin, Economic Observer, China Economic Information, China Youth Daily, Yabuli Chinese Entrepreneur Forum, Southern Weekly, Tencent News, Beijing Youth Daily, Sina, Liaowang Institute, Legal Daily, Modern Express, China Dialogue, CETIN, Oriental Outlook, Phoenix Weekly, Mirror Books Global Times, CNPolitics.org, Jiangsu Banking Industry, China Environmental Management, Chinese Environmental News, FT Chinese, Journal of Translation from Foreign Literature of Economics

**MEMBERSHIPS**

American Economic Association  
Association of Environmental and Resource Economists

**LANGUAGES** Chinese (native)  
English (fluent)

**COMPUTER SKILLS** Python, R, JavaScript, MATLAB, SAS, Arc GIS, Maple, Mathematica, S-Plus, Stata, HTML, CSS, PHP, MySQL, PostgreSQL, C/C++, Visual Basic, BUGS, UNIX/Linux, L<sup>A</sup>T<sub>E</sub>X

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