

## CURRICULUM VITAE

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### EDUCATION

B.A., Economics, Peking University  
M.S., Environmental Sciences, Peking University  
PhD, Environmental Management, Peking University

### AREAS OF SPECIALIZATION

Environmental Economics and policy  
Environmental Management  
Global environmental treaties

### CURRENT POSITION, MEMBERSHIP & PROFESSIONAL ACTIVITIES

Professor	College of Environmental Sciences and Engineering, Peking University
Director	Institute of Environment and Economy (IoEE), Peking University
Board of Directors, President	East Asian Association on Environment and Resource Economics (EAAERE)
Board of Directors	China's Association for Environmental Economics
Board of Directors	Professional Association of China's Environment (PACE)
Co-Chair	Task Force for Replenishment of the Multilateral Fund for the Implementation of Montreal Protocol (UNEP)
Senior Expert Member	UNEP Technology and Economic Assessment Panel (TEAP) for implementing Montreal Protocol
Advisor	Forum on Health, Environment and Development (FORHEAD) of the Social Research Council of US.
Member	Association of Environmental and Resource Economists; and,

	European Association of Environmental and Resources Economists, EAERE
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## EXPERIENCE

### *Record*

2007-	Director, Institute of Environment and Economy, PKU
2007-2012	Deputy Dean, College of Environmental Science & Engineering, PKU
1999-	Professor, Peking University
1995-1999	Associate Professor, Peking University
1990-1995	Lecturer, Peking University
1988-1990	Assistant, Peking University
1997-2006	Member, Environmental Economics Working Group / Task force of Environmental and Natural Resources Pricing and Taxation, under CCICED
2001-	Co-Chair, Task Force for Replenishment of MLF to Montreal Protocol, UNEP
1997-	Member, senior member of UNEP TEAP
2017-2019	President, East Asian Association on Environment and Resource Economics (EAAERE)
2010-	Board of Directors, East Asian Association on Environment and Resource Economics (EAAERE),2010-; Vice president 2015-2017; President 2017-2019
2013-2018	Scientific Advisor Panel Member, Climate and Clean Air Coalition to Reduce Short-lived Climate Pollutants, CCAC OF UNEP
2012-2017	Supporting Team of Chief Advisors (CHAD), CCICD
2004-2005	Environmental Advisor, UNDP Beijing
1997-2002	Co-Chair, UNEP Economic Options Committee
1993-1995	Associate, Leadership for Environment and Development (Rockefeller Foundation)
1991-1993	Visiting Scholar and Research Investigator, Project for Integrated Study of Global Change at the University of Michigan, USA

## COURSES TAUGHT

Environmental Economics, at Graduate level, from 1988

Environmental Management, undergraduate, from 2006

Seminar on Environmental Decision Making, undergraduate, from 2018

### Selected Paper:

1. Yana, and **Shiqiu Zhang**. "An Economic Evaluation of the Health Effects of Reducing Fine Particulate Pollution in Chinese Cities." *Asian Development Review* 35.2 (2018): 58-84; [https://doi.org/10.1162/adev\\_a\\_00114](https://doi.org/10.1162/adev_a_00114)
2. Dan Wu, Xunzhou Ma, **Shiqiu Zhang**. Integrating synergistic effects of air pollution control technologies: More cost-effective approach in the coal-fired sector in China. *Journal of Cleaner Production*, Volume 199, 20 October 2018, Pages 1035-1042 DOI information: 10.1016/j.jclepro.2018.06.035
3. Desheng Huang, Henrik Andersson & **Shiqiu Zhang** (2017): Willingness to pay to reduce health risks related to air quality: evidence from a choice experiment survey in Beijing, *Journal of Environmental Planning and Management*, DOI: 10.1080/09640568.2017.1389701.
4. XIE Peng-fei, TANG Da-gang, **ZHANG Shi-qiu**. Environmental economic analysis of upgrading the fuel quality in the Jing-Jin-Ji region. *China Environmental Science*. 2017,37(6): 2352~2362
5. Yana Jin, Henrik Anderson and **Shiqiu Zhang**. China's Cap on Coal and the Efficiency of Local Interventions: A Benefit-Cost Analysis of Phasing out Coal in Power Plants and in Households in Beijing1J. *J. Benefit Cost Anal. J.* 2017; 8(2):147–186
6. FENG Jie, **ZHANG Shiqiu** . The Measurement of China's Provincial Green Total Factor Productivity Based on DEA Method: Does the Choice of DEA Model Make Difference *Acta Scientiarum Naturalium Universitatis Pekinensis*, Vol. 53, No. 1 (2017)
7. ZHAO Dong-yang, JIN Ya-na, **ZHANG Shi-qiu**. Cost-effectiveness analysis of pollution emission reduction measures and ultra-low emission policies for coal-fired power plants. *China Environmental Science*. 2016,36(9): 2841~2848
8. JIN, Yana; ANDERSON, Henrik, **ZHANG, Shiqiu**. Air Pollution Control Policies in China:A Retrospective and Prospects. *International Journal of Environmental Research and Public Health*. *Int. J. Environ. Res. Public Health* 2016, 13, 1219; doi:10.3390/ijerph13121219
9. **Zhang Shiqiu**. Environmental Tax: Arrows on the string with right target?\_A discussion on some key issues for environmental taxation policy in China. *Environmental Protection*. Vol 16, 2015 p31-p35
10. Mu Quan, **Zhang Shiqiu**. Assessment of the Trend of Heavy PM2.5 Pollution Days and Economic Loss of Health Effects during 2001–2013.

Acta Scientiarum Naturalium Universitatis Pekinensis, Vol. 51, No. 4 (July 2015) doi: 10.13209/j.0479-8023.2015.074

11. Oran R. Young, Dan Guttman, ... **Shiqiu Zhang** (16/18), Institutionalized governance processes: comparing environmental problem solving in China and the United States. *Global Environmental Change* 31(2015) 16-173
12. Ma Xunzhou, **Zhang Shiqiu**. Study on structure and policy effects of increasing block tariffs of Chengdu residential water. *China Population, Resources and Environment*. Vol 24 No. 11 2014 p168-175
13. Wu Dan, Xu Yuan, **Zhang Shiqiu**. Will Joint Regional Air Pollution Control be More Cost-effective? An Empirical Study of China's Beijing-Tianjin-Hebei Region. *Journal of Environmental Management* (2015), pp. 27-36 DOI information: 10.1016/j.jenvman.2014.09.032 IF (2012-2013; 3.057), 5 years 3.545
14. Xunzhou Ma , **Shiqiu Zhang** & Quan Mu. How Do Residents Respond to Price under Increasing Block Tariffs? Evidence from Experiments in Urban Residential Water Demand in Beijing. *Water Resources Management*. (2014) 28:4895-4909. DOI 10.1007/s11269-014-0561-y, Volume 28 , Issue 14 (Impact Factor: 2.463 ( 2013 ) \* Journal Citation Reports®, Thomson Reuters)
15. ZHANG Chun, **ZHANG Shiqiu**, Study on Urban Form and Air Quality in Metropolitan Area: Identify Relations and Research Framework. *Urban Development Studies* Vol.21 No.9 2014 P47-53
16. **Zhang Shiqiu**. The Discussion on Integration of the Beijing-Tianjin-Hebei Region and Its Regional Air Quality Management. *Environment Protection*. Vol 42, No 17 2014 P30-33
17. **Zhang Shiqiu**, Dust-haze management: attaching equal importance to iron hand and good governance, *Science and Society*, Vol 4, No. 2, June 2014
18. Mu Quan, **Zhang Shiqiu**, Ma Xunzhou. Driving Factors of Household Adoption of Water Conservation Behaviors. *Scientiarum Naturalium Universitatis Pekinensis*, Vol. 50, No. 3 (May 2014). P587-594
19. Jun Bi, Oran R. Young, Robert Costanza. .... **Shiqiu Zhang** .... Same dream, different beds: Can America and China take effective steps to solve the climate problem? *Global Environmental Change* 24 (2014) p2–4
20. Mu Quan, **Zhang Shiqiu**. An Evaluation of the Economic Loss due to the Heavy Haze During January 2013 in China. *China Environmental Science*, Vol 33, No 11, 2013 P2087-2095

21. JIN Yana, **ZHANG Shiqiu**. Cost and Benefit Analysis of the Coal Reduction and Substitution Interventions in Power Plants and Residential Sector in Beijing. Beijing: Sciencepaper Online, [2014-04-30].<http://www.paper.edu.cn/releasepaper/content/201404-449>Jin Yana, **Zhang Shiqiu**. Elasticity Estimates of Urban Resident Demand for Electricity: a case study in Beijing. Energy Policy. Vol. 24, Nos.7/8, 2013. p1229-1248
22. Zhang Xiuli, Wu Dan, **Zhang Shiqiu**. Analysis on the Policy of Phasing out High-Emission Vehicles in Beijing. Acta Scientiarum Naturalium Universitatis Pekinensis, Vol. 49, No. 2 (Mar. 2013), p297-304
23. Huang Desheng, Zhang Shiqiu. Health Benefit Evaluation for PM2.5 Pollution Control in Beijing-Tainjin-Hebei Region of China. China Environmental Science, Vol 33, No 1, 2013 pp166-174
24. Xu Jianhua, Wang Xuesong, **Zhang Shiqiu**. Risk-based air pollutants management at regional levels. ENVIRONMENTAL SCIENCE & POLICY, 2013 Vol 25。 P167-175
25. **Zhang Shiqiu**. China's Perspective: environmental issues. Paper in the collection of Crux of Asia: China, India, and the Emerging Global Order. Edited by Ashiley J Tellis and Sean Mirski. Carnegie Endowment 2013.
26. Huang Desheng, Xie Xuxuan, Mu Quan, **Zhang Shiqiu**. Study on the Age Effects on Environmental Health Valuation. China Population, Resources and Environment. Vol 22. No. 8, 2012. Pp63-69
27. Xie Xuxuan, **Zhang Shiqiu**, Xu Jianhua, Wu Dan, Zhu Tong. Cost-Effective Control of Ground-Level Ozone Pollution in and around Beijing. Chinese Journal of Population Resources and Environment. June 2012, Volume 10, No 2, pp 101-109
28. Ma Xunzhou, **Zhang Shiqiu**, Mu Quan. Application of Quadratic Almost Ideal Demand System in Analysis of Demand Elasticity of Household Water Demand of Beijing. Scientiarum Naturalium Universitatis Pekinensis, Vol. 48, No. 3 (May 2012). p483-490
29. Wan Wei, **Zhang Shiqiu**. Can Emission Trading Policy Help Restructuring Industry? A Case Study of Shenzhen of China. Scientiarum Naturalium Universitatis Pekinensis, Vol. 48, No. 3 (May 2012). p491-499
30. Ma Xunzhou, **Zhang Shiqiu**, Mu Quan. Welfare Effects Simulation Analysis and Policy Exploration of Increasing Block Tariff for Urban Household Water in Beijing. Priced: theory & Practice. Vol 12, 2011, P25-27

31. **Zhang Shiqiu**, Huang Desheng. Controlling the pollution of fine particulates to mitigate the health impacts. Environmental Protection. Vol 16, 2011.
32. Wu Dan, **Zhang Shiqiu**. China' s Air Pollution Control Strategy and Reform Acta Scientiarum Naturalium Universitatis Pekinensis, Vol. 47, No. 6 (Nov. 2011) P1143-1150
33. Desheng Huang, Jianhua Xu, **Shiqiu Zhang**. Valuing the health risks of particulate air pollution in the Pearl River Delta, China. Environmental Science and Policy 15 (2012), pp. 38-47
34. XIE Xuxuan, MA Xunzhou, **ZHANG Shiqiu**. Evaluating Income Impacts of Slopping Land Conversion Program in China: A Matching DID Model. Acta Scientiarum Naturalium Universitatis Pekinensis, Vol. 47, No. 4 (July 2011) P759-767
35. Yi Ru, **Zhang Shiqiu**, Xie Xuxuan etl. Comparison Analysis on Driving Restriction and Gasoline Pricing Policies in Beijing. **CHINA POPULATION, RESOURCES AND ENVIRONMENT. Vol 21, No 5, 2011**
36. WU Dan, **ZHANG Shiqiu**, XU Jianhua, ZHU Tong. The CO2 Reduction Effects and Climate Benefit of Beijing 2008 Summer Olympics Green Practice. Energy Procedia. 2011,(5): 280-296.
37. WU Dan, **ZHANG Shiqiu**, ZHU Tong. Controlling Mercury Emission for China's Coal Fired Electricity Plants: an Economic Analysis. Energy Procedia. 2011,(5): 1439-1454.
38. Yu Jialing, **Zhang Shiqiu**. The Cancer Village. Environmental Protection. Vol 24, 2010
39. Xie Xuxuan, **Zhang Shiqiu**, Yi Ru, Wu Dan, Huang Desheng. The Social Cost of Transportation Congestion in Beijing **CHINA POPULATION, RESOURCES AND ENVIRONMENT Vol 21 No. 1 2011 p28-32**
40. Ma Xunzhou, **Zhang Shiqiu**, Xie Xuxuan, Yue Peng etl. Analysis of Elasticity of Urban Household Water Demand in Beijing. China Price. Vol 3, 2011 P63-66
41. Yi Ru, **Zhang Shiqiu**. Effect of Increase in Price of Oil on Behavior of Private Car Owners in Beijing. Chinese Journal of Population Resources and Environment. 2010 Vol.8 No.1. Page 55-61
42. Zou Wenbo, **Zhang Shiqiu**. Economic Valuation of Health Impact of PM10 Pollution in Beijing from 2001 to 2006. 2010 Vol.8 No.1. Page 68-74
43. Xie Xuxuan, Zhang Shiqiu, Zhu Shantao. Impacts of Slopping Land

- Conversion Program on Households' Sustainable Livelihood. *Acta Scientiarum Naturalium Universitatis Pekinensis*, Vol. 46, No. 3 (May 2010). P457-464
44. Wan Wei, **Zhang Shiqiu**, Zou Wenbo. Study on Regional Environmental Management Mechanism in China. *Acta Scientiarum Naturalium Universitatis Pekinensis* Vol. 46, No. 3 (May 2010). P449-456
  45. B.Wang, M. Shao, S. H. Lu, B. Yuan, Y. Zhao, M.Wang, **S. Q. Zhang**, and D. Wu. Variation of ambient non-methane hydrocarbons in Beijing city in summer 2008. *Atmos. Chem. Phys.*, 10, 5911–5923, 2010
  46. **Zhang Shiqiu**. Environment: Reconciling Nature and Development. *Global Asia*. Vol 5, Num 2, Summer 2010. Page 40-45
  47. M. Wang, T. Zhu, J. Zheng, R. Y. Zhang, **S. Q. Zhang**, X. X. Xie, Y. Q. Han, and Y. Li. Use of a mobile laboratory to evaluate changes in on-road air pollutants during the Beijing 2008 Summer Olympics. *Atmos. Chem. Phys.*, 9, 8247–8263, 2009
  48. Ben Groom, Pauline Grosjean, Timothy Swanson and **Shiqiu Zhang**, 2009. Relaxing Rural Constraints: A win-win policy for environment and poverty in China?, Forthcoming. *Oxford Economic Papers*.
  49. Katrina Mullan, Tim Swanson and **Shiqiu Zhang** (2009) An evaluation of the impact of the Natural Forest Protection Programme on Rural Household Livelihoods . *Environmental Management*. March 2010. P 513-525. Also in *An Integrated Assessment of China's Ecological Restoration Programs*. Springer. 2009. P.175-200
  50. Ai Chunyan. **Zhang Shiqiu**. Cost-effectiveness Targeting of Conversion of Cropland to Forest Project. *Forest Economics*. No 9, 2009. P74-77
  51. Ai Chunyan, **Zhang Shiqiu**, Tao Wendi, Yue Peng, Xie Xuxuan. The Inspiration to Grain for Green Project in China by the Conservation Reserve Program Policy after Contracts Expiration in USA. *Forest Economics*. No. 2 February 2008 (No. 187). P70-76)
  52. Katrina Mullan, Andreas Kontoleon, Tim Swanson and **Shiqiu Zhang**. When should households be compensated for land-use restrictions? A decision-making framework for Chinese forest policy. *Land Use Policy*, Volume 28, Issue 2, April 2011, Pages 402-412
  53. **Zhang Shiqiu**. China: Facing the Challenges to Link Climate Change Responses with Sustainable Development and Local Environmental Protection. *Globalizations*. March 2008, Vol. 5, pp. 81-82.

54. Lindhjem, Henrik, Hu, Tao, Ma, Zhong, Skjelvik, John Magne, Song, Guojun, Vennemo, Haakon, Wu, Jian and **Zhang, Shiqiu** (2006): Environmental economic impact assessment in China: Problems and prospects. Published in: Environmental Impact Assessment Review , Vol. 1, No. 27 (2007): pp. 1-25.
55. **Zhang Shiqiu**. Analysis on low efficient allocation of environmental resources and the facts that the advantaged groups capture the natural capital. China Population, Resource and Environment. 2007 Vol 17, No 6, P7-13
56. Tao Wendi, **Zhang Shiqiu**, Ai Chunyan. Etl. Reorganization of the Impact Factors of the Effectiveness of SLCP and Analysis of the Impacts. China Population, Resource and Environment. 2007 Vol 17, No 4, P66-70
57. Zhai Guoliang, **Zhang Shiqiu**, Kontoleon Andreas, Grosjean Pauline. Theory and Practice of Choice Experiment: a case study on China's Stopping Land Conversion Program. Acta Scientiarum Naturalium Universitatis Pekinensis, Vol. 43, No 2 (March 2007)
58. Lindhjem, Henrik, Hu, Tao, Ma, Zhong, Skjelvik, John Magne, Song, Guojun, Vennemo, Haakon, Wu, Jian and **Zhang, Shiqiu** (2006): Environmental economic impact assessment in China: Problems and prospects. Published in: Environmental Impact Assessment Review , Vol. 1, No. 27 (2007): pp. 1-25.
59. Ge Aijing, **Zhang Shiqiu**. Assessment and analysis of environmental management status and the driving forces of transnational corporations. China Environmental Sciences. Vol 26, No 1 2006. P106-110
60. Chen Lei, **Zhang Shiqiu**. Gaming Analysis for Behaviors of the Enterprises Involving Emission Trading. Acta Scientiarum Naturalium Universitatis Pekinensis. Bol 41, No. 6, (Nov 2005), P926-934
61. Zhu Shantao, **Zhang Shiqiu** etl. Identification and Analysis of the Factors Influencing Farmers' Choices to Replant Crops in the SLCP Program. China Population, Resource and Environment. 2005 Vol 15, No 5, P108-112
62. **Zhang Shiqiu**. Reform of China's Environmental Regulatory System: from sector based management to public management. China Population, Resource and Environment. 2005 Vol 15, No 4, P90-95
63. CHU Jing-jie, **ZHANG Shi-qiu**, XU Xiao-mei, Lessons learned from the pesticide management abroad and policy recommendation to China. China Population, Resources and Environment, Vol. 15, Sum.88 June 2005. P 205-208



64. An Shumin, **Zhang Shiqiu**. *Environment v.s. Poverty Combining with the degradation of industrial structure in Western China*. Forecasting. Vol 24, No. 1 2005. p14-18
65. **Zhang Shiqiu**. Analysis of the Marginalized Reality of the Environmental Policy in China and Discussion for future reforms. China Population, Resource and Environment. 2004 Vol 14, No. 3. P14-18
66. Chu Jingjie, **Zhang Shiqiu**, Xu Xiaomei. Review on Implementation of POPs Convention and Relevant International Activities. Journal of Safety and Environment. Vol. 4, Supplement, 2004. P58-61
67. AN Shumin, **ZHANG Shiqiu**. Discussion on the Marketable Operation of Environmental Investment in China. China Population, Resources, and Environment. 2004. Vol. 14, No 4. P111-116
68. Chu Jing-jie, **Zhang Shi-qiu**, Xu Xiao-mei. Lessons learned from the Pesticide Management Abroad and Policy Recommendation to China. China Population, Resource and Environment. 2005 Vol 15, Sum. 88. P205-208
69. **Zhang Shiqiu**, Duan Yanxin. Marginal Cost Pricing for Coal Fired Electricity in Coastal Cities of China: the case of Mawan Electricity Plant in Shenzhen City, China. Journal of Environmental Sciences, Vol 15, No.3. pp.401-412, 2003
70. **Zhang Shiqiu**, Duan Yanxin. Study on the application of the Genuine Saving in Analysing the Urban Sustainability: taking Guangzhou as the case. CHINA DEVELOPMENT. No 1 2002.
71. **Zhang Shiqiu**, An Shumin, Wang Zhongcheng. Analysis of existing environmental investment system in China. China Population, Resources and Environment. Vol 11, No2. 2001
72. **ZHANG Shiqiu** , HE Hongyan , CAO Jing. Environmental Policy Innovation: Discussion on Implementing Environmental Tax in China. *Journal(Natural Science)Of PeKing University (ASJNS)* 2001-07-20 Vol.37 No.4 pp.550 ~ 556
73. An Shumin, **Zhang Shiqiu**, Wang Zhongcheng. Discussion on Environmental Investment and Development of Environmental Protection Industry. China Population, Resource and Environment.Vol 11, No. 3. 2001
74. **Zhang Shiqiu**. China's Energy, Environment and Policy Perspective. Journal of Environmental Sciences. Volume 12, Number 3, September 2000

75. **ZHANG-Shiqiu**, WANG-Zhongcheng, AN-Shumin *Analysis on the Obstacles for Environmental Industry Development in China*, China Soft Science 2000. NO.12. P4-8.
76. **ZHANG Shiqiu**. Environmental Regulatory and Policy Framework in China: an overview. Journal of Environmental Sciences. Volume 13, Number 1. January 2001
77. **Zhang Shiqiu**. "Authorized Management Mechanism for Pollution Prevention and Treatment Facilities". China Population, Resources and Environment. 2000 Vol. 10 No. 2. 2000.

## AWARDS

2017	Technical Leadership Award. In appreciation of your valuable contributions towards the protection of the ozone layer (TEAP group award), by UNEP Ozone Secretariat
2015	2014 Science and Technology Awards, by Ministry of Education
2012	UNEP Ozone Secretariat, recognizing and appreciating the valuable contribution and efforts in the Technology and Economic Assessment Panel (group awards)
2010	2010 Science and Technology Awards for Environmental Protection
2009	"The Most Beloved Teacher", Peking University Undergraduate Students Union, and Graduate Students Union, Peking University
2007	UNEP, "Twentieth Anniversary Ozone Protection Awards": "Technology and Economic Assessment Panel Champion Awards", "In recognition of extraordinary service to the Parties to the Montreal Protocol and the global effort to protect the ozone layer "
2007	US EPA: "2007 Best-of-the Best Awards": China Leadership Team for Excellence in Montreal Protocol Compliance,"in recognition of the most exceptional global contributions in the first two decades of the Montreal Protocol"
2006	Excellent Teaching awards, Peking University
2005	2005 Stratospheric Ozone Protection Award: for Leadership in ODS Phase-out in Developing Countries, by EPA of USA (group award)
2004	The Special Gold Award of Ozone Layer Protection Contribution Award of China. By SEPA of China (group award)
2001	Environmental Award, China Council for International Cooperation on Environment and Development
2001	Excellent Essay in the year of 2001 by the CSSD Journal of the Editorial Board of China Population, Resources and Environment
2000	Academician Yang Fu-qing and Wang Yang-yuan Year 2000 Excellent Teaching and Research Prize, Peking University
1998	Sixth China Youth Science and Technology Prize, China's Association of Sciences

1998	First Youth Science and Technology Achievement Prize, China's Association of Environmental Sciences
1998	Third Prize for Scientific Achievement of SEPA for the book of <i>Introduction to the Sustainable Development</i>
1998	The Eleventh China's Books Prize, for the book <i>Introduction to the Sustainable Development</i>
1998	"The Most Beloved Teacher", Peking University Undergraduate Students Union, and Graduate Students Union, Peking University
1997	1 <sup>st</sup> prize of Social Benefit, (for the translation of World Without End) China's Financial Economic Publishing House
1997	Second Prize for Science and Technology Achievements of Peking University, for the research project of <i>Improving Urban Ecological Environmental for Benxi City</i>
1997	Antai Awards for Academic and Teaching Achievements, Peking University
1994	Excellent Teaching Awards, Peking University