

LAIXIANG SUN, Professor
Curriculum Vitae (May 15, 2019)

Office Address: Professor Laixiang Sun, Department of Geographical Sciences, University of Maryland, 2181G LeFrak Hall, College Park, MD 20742, USA; Tel. +1-301-4058131, Email: LSun123@umd.edu.

Personal: male; married; one son.

Present Positions

1. Professor of Geographic Economics, Department of Geographical Sciences, University of Maryland, USA.
2. Visiting Research Professor, School of Finance and Management, SOAS, University of London, UK.
3. Senior (Visiting) Economist (since 2001), International Institute for Applied System Analysis (IIASA), Laxenburg, Austria.
4. Visiting Research Professor (since 2005), Institute of Geographic Sciences and Natural Resources Research (IGSNRR) and China Center for Agricultural Policy (CCAP), China Academy of Sciences, Beijing, China.
5. Senior (Visiting) Research Fellow (since 1999), Guanghua School of Management, Peking University, Beijing, China.

Honours

- Fellow (Academician) of the Academy of Social Sciences, the UK, since February 2010.
- Awarded the title of “Outstanding Overseas Chinese Scholar” by China Academy of Sciences in June 2005.
- Cover Figure in the March 2011 issue of *China Scholars Abroad* magazine.
- Expert Advisor, China Federation of Returned Overseas Chinese, since May 2011.
- Expert Advisor, Shenzhen Institute of Sustainable Development, since January 2019.
- Sun Yefang Prize of Economics in 1988, awarded by Association of Chinese Economists (the highest annual award for economists in China), shared with other Core Team Members of the Project on “Reform Program of China's Economic System in 1988-95,” State Reform Commission, Beijing, China.

Professional Services

- Co-Editor, *Journal of Chinese Economic and Business Studies*, July 2008-Dec 2013.
- Editorial Board Member:
 - Management Decision* (2017 IF: 1.525; 5-year IF: 2.340), since July 2012.
 - Energy, Ecology and Environment* (E3), Nature-Springer, since 2015.
 - Journal of Chinese Economic and Business Studies*, since July 2008.
 - Journal of Resources and Ecology*, since Jan. 2010.
 - China Quarterly* (2011 Citation Impact Factor: 1.026; top journal in Area Studies), since Feb.

2004-Jan. 2014, member of the Executive Committee Jan. 2005-Jan. 2014.

Journal of Comparative Economics, Jan. 2003 to Dec. 2005.

- President (for 2012-13), President elected (2011-12), and Member of the Board of Directors (2010-14), Chinese Economist Association (UK/Europe).
- Executive Chairman of the Academic Committee, Shanghai Climate Change Research Centre, Shanghai Meteorological Bureau, Shanghai, China.
- Research Associate, China Growth Centre at St Edmund Hall, University of Oxford.
- Ad hoc referee: National Science Foundation USA, US Department of Agriculture, Economic & Social Research Council (ESRC) of the UK, Natural Environment Research Council (NERC) of the UK, British Academy, Netherlands Foundation for the Advancement of Tropical Research (WOTRO-NWO); Research Grants Council (RGC) of Hong Kong; University Grants Committee of Hong Kong; Elsevier, Oxford University Press, Cambridge University Press, Palgrave Macmillan, Pearson Education, Springer, Peter Lang Publishing; *Nature Climate Change*; *One Earth*; *Global Environmental Change*; *Environmental Science and Technology*; *Environment and Planning A*; *Journal of Environmental Planning and Management*; *Renewable & Sustainable Energy Reviews*; *Science of the Total Environment*; *Energy*; *Energy Policy*; *Applied Energy*; *Journal of Industrial Ecology*; *Agricultural Systems*; *Food Policy*; *Land Use Policy*; *Food Security*; *Regional Study*; *Papers in Regional Science*; *Ecological Economics*; *Journal of Comparative Economics*; *Cambridge Journal of Economics*, *Journal of Economic Behavior and Organization*; *Economica*; *Economic Systems Research*; *Journal of Economics*; *Biomass and Bioenergy*; *Environmental Management*; *Climate Policy*; *Journal of International Business Studies*; *Journal of Business Research*; *World Development*; *Social Forces*; *Applied Economics*; *Ecological Modelling*; *Journal of Applied Meteorology and Climatology*, *Journal of Rural Studies*; *Journal of Resources and Ecology*; *Habitat International*; *China Economic Review*; *China Quarterly*; *China Journal*; *Population and Environment*; *Economic Systems*; *European Journal of Development Research*; *Journal of Chinese Economic and Business Studies*; *Development and Change*; *International Journal of Sustainable Transportation*; *Journal of Peking University*; *Journal of Comparative Law*; *Leadership*; *Geophysical Research Letters*; *Problems and Perspectives in Management*; *Human and Ecological Risk Assessment: An International Journal*; *Water*; *Ocean & Coastal Management*; *Resources, Conservation & Recycling*; *Computers and Electronics in Agriculture*; *Water Research*.
- News commentaries: *The Economist*, BBC News 24 (TV), BBC World News and BBC World Service (TV and radio), CNN (TV), Al Jazeera (English TV Channel), ITV News, Phoenix TV (Chinese), France24, China Daily Europe, CNBC Europe and CNBC World, Radio France Internationale.

Education

- Sep. 1978 - July 1982: BSc. study at Department of Mathematics, Peking University, Beijing, China, with Distinction.
- Sep. 1982 - July 1985: MSc. study at Department of Mathematics, Peking University, Beijing, China.
- Apr. 1992 - Apr. 1997: Ph.D. study in Economics at the International Institute of Social Studies of the Erasmus University Rotterdam in The Hague, The Netherlands, and a holder of Fellowship of Dutch Government.

Job History

- Chair Professor of Chinese Business and Management (Aug 2003-Dec 2013) and Head of Department (2004-2005; 2008-2012), Department of Financial and Management Studies (DeFiMS), SOAS, University of London, UK.
- Lecturer of Chinese Business and Management, Department of Financial and Management Studies (DeFiMS), SOAS, University of London, UK, Aug 2001-July 2003.
- Project Director, United Nations University, World Institute for Development Economics Research (UNU/WIDER), Helsinki, Finland, Jan. 2000-Dec. 2002.
- Economist, International Institute for Applied System Analysis (IIASA), Laxenburg, Austria, Apr. 1997-July 2001.
- Senior Research Fellow at Research Center for Social Development of Contemporary China, Peking University, Beijing, China, Feb. 1989-Oct. 1991.
- Associate Chairman of Department of Economic Management, Peking University, Beijing, China, May 1986-Oct. 1991.
- Lecturer at Department of Economic Management (Guanghua School of Management, since 1995), Peking University, Beijing, China, Aug. 1985-Oct. 1991.

Main Publications and Project Reports

¹Primary contributor, ²Principal contributor and corresponding author, ³Principal contributor, ⁴Contributor only

Articles published in International Refereed Journals

1. Liu, Xiaoping, Shaojian Wang, Xiaoping Liu, Peijun Wu, Kuishuang Feng, Klaus Hubacek, Xia Li, Laixiang Sun². 2019. “Impacts of Urban Expansion on Terrestrial Carbon Storage in China.” *Environmental Science and Technology* (2017 IF: 6.653), in press.
2. Zhao, Dandan, Klaus Hubacek, Kuishuang Feng, Laixiang Sun³, Junguo Liu. 2019. “Explaining the virtual water trade: A spatial-temporal analysis of the comparative advantage of land, labor and water in China.” *Water Research* (2017 IF: 7.051; 5 yr IF: 7.621), Vol. 153, pp. 304-314. <https://doi.org/10.1016/j.watres.2019.01.025>.
3. Zhong, Honglin, Laixiang Sun², Günther Fischer, Zhan Tian, Zhuoran Liang. 2019. “Optimizing regional cropping systems with a dynamic adaptation strategy for water sustainable agriculture in the Hebei Plain.” *Agricultural Systems* (2017 IF: 3.004, 5-yr IF: 3.756), Vol. 173, pp. 94–106. <https://doi.org/10.1016/j.agry.2019.02.005>.
4. Munoz Castillo, Raul, Kuishuang Feng, Laixiang Sun³, Joaquim Guilhoto, Stephan Pfister, Fernando Miralles-Wilhelm, Klaus Hubacek. 2019. “The land-water nexus of biofuel production in Brazil: analysis of synergies and trade-offs using a multiregional input-output model.” *Journal of Cleaner Production* (2017 IF: 5.651, 5-yr IF: 6.352), vol. 214, pp. 52-61. <https://doi.org/10.1016/j.jclepro.2018.12.264>.
5. Xu, Hanqing, Zhan Tian, Xiaogang He, Jun Wang, Laixiang Sun², Günther Fischer, Dongli Fan, Honglin Zhong, Wei Wu, Edward Pope, Chris Kent, Junguo Liu. 2019. “Future increases in irrigation water requirement challenge the water-food nexus in the Northeast Farming Region of China.” *Agricultural Water Management* (2017 IF: 3.182; 5-yr IF: 3.565), Vol. 213, pp. 594-604. <https://doi.org/10.1016/j.agwat.2018.10.045>.

6. Wang, Shaojian, Chuanglin Fang, [Laixiang Sun](#)³, Yongxian Su, Xiuzhi Chen, Chunshan Zhou, Kuishuang Feng, and Klaus Hubacek. 2019. “Decarbonizing China’s Urban Agglomerations.” *Annals of the American Association of Geographers* (2017 IF: 2.097, ranking 8th out of 79 geography journals worldwide), Vol. 109, Issue. 1, pp. 266-285. DOI: 10.1080/24694452.2018.1484683.
7. Sun, Landong, Zhan Tian, Huan Zou, Lanzhu Shao, [Laixiang Sun](#)³, Guangtao Dong, Dongli Fan, Xinxing Huang, Laura Frost, and Lewis-Fox James. 2019. “An Index-Based Assessment of Perceived Climate Risk and Vulnerability for the Urban Cluster in the Yangtze River Delta Region of China.” *Sustainability* (2017 IF: 2.057; 5-yr IF: 2.177), Vol. 11, 2099; doi:10.3390/su11072099.
8. Luan, Yibo, Günther Fischer, Yoshihide Wada, [Laixiang Sun](#)³, and Peijun Shi. 2018. “Quantifying the impact of diet quality on hunger and undernutrition.” *Journal of Cleaner Production* (2017 IF: 5.651, 5-yr IF: 6.352), Vol. 205, pp. 432-466. <https://doi.org/10.1016/j.jclepro.2018.09.064>.
9. Li, Xiaoying, Yin-Fang Zhang, and [Laixiang Sun](#)³. 2018. “Industry agglomeration, sub-national institutions and the profitability of foreign subsidiaries.” *Management International Review* (2017 IF: 2.279). Vol. 58, Issue 6, pp 969–993. <https://doi.org/10.1007/s11575-018-0361-3>.
10. Li, Shengfa, Xiubin Li, [Laixiang Sun](#)³, Guiying Cao, Günther Fischer, Sylvia Tramberend. 2018. “An Estimation of the Extent of Cropland Abandonment in Mountainous Regions of China.” *Land Degradation & Development* (2017 IF: 7.27), Vol. 29, Issue 5, pp. 1327-1342. DOI: 10.1002/ldr.2924.
11. White, David J., Klaus Hubacek, Kuishuang Feng, [Laixiang Sun](#)³, Bo Meng. 2018. “The Water-Energy-Food Nexus in East Asia: A Tele-connected Value Chain Analysis Using Inter-Regional Input-Output Analysis.” *Applied Energy* (2017 IF: 7.9; 5-yr IF: 7.888), Vol. 210, pp. 550-567. <http://dx.doi.org/10.1016/j.apenergy.2017.05.159>.
12. Tian, Zhan, Yilong Niu, Dongli Fan, [Laixiang Sun](#)², Gunther Ficsher, Honglin Zhong, Jia Deng, Francesco N. Tubiello. 2018. “Maintaining Rice Production while Mitigating Methane and Nitrous Oxide Emissions from Paddy Fields in China: Evaluating Tradeoffs by Using Coupled Agricultural Systems Models.” *Agricultural Systems* (2017 IF: 3.004, 5-yr IF: 3.756), vol. 159, pp. 175–186. <https://doi.org/10.1016/j.agsy.2017.04.006>.
13. Tian, Zhan, Yinghao Ji, [Laixiang Sun](#)³, Xinliang Xu, Dongli Fan, Honglin Zhong, Zhuoran Liang, Gunther Ficsher. 2018. “Changes in production potentials of rapeseed in the Yangtze River Basin of China under climate change: A multi-model ensemble approach.” *Journal of Geographical Sciences* (2017 IF: 1.623), Vol. 28, No. 11, pp. 1700-1714.
14. Zhong, Honglin, [Laixiang Sun](#)², Günther Fischer, Zhan Tian, Harrij van Velthuisen, Zhuoran Liang. 2017. “Mission Impossible? Maintaining regional grain production level and recovering local groundwater table by cropping system adaptation across the North China Plain.” *Agricultural Water Management* (2017 IF: 3.182; 5-yr IF: 3.565), Vol. 193, pp. 1-12. <https://doi.org/10.1016/j.agwat.2017.07.014>.
15. Munoz Castillo, Raul, Kuishuang Feng, Klaus Hubacek, [Laixiang Sun](#)³, Joaquim Guilhoto, Fernando Miralles-Wilhelm. 2017. “Uncovering the Green, Blue and Grey Water Footprint and Virtual Water of Biofuel Production in Brazil, a Nexus perspective.” *Sustainability* (2017 IF: 2.057; 5-yr IF: 2.177), Vol. 9, no. 2049, pp. 1-18. DOI: 10.3390/su9112049.
16. Hubacek, Klaus, Giovanni Baiocchi, Kuishuang Feng, Raúl Muñoz Castillo, [Laixiang Sun](#)³ and Jinjun Xue. 2017. “Global carbon inequality.” *Energy, Ecology and Environment*, Vol.

- 2, no. 6, pp. 361–369. DOI: 10.1007/s40974-017-0072-9.
17. Yang, Xuan, Zhan Tian, Laixiang Sun², Baode Chen, Francesco N. Tubiello. 2017. “The impacts of increased heat stress events on wheat yield under climate change in China.” *Climatic Change* (2017 IF: 3.537), vol. 140, no. 3, pp 605–620. DOI: 10.1007/s10584-016-1866-z.
 18. Prell, Christina, Laixiang Sun³, Kuishuang Feng, Klaus Hubacek. 2017. “Uncovering the Spatially Distant Feedback Loops of Global Trade: A Network and Input-Output Approach.” *Science of the Total Environment* (2016 IF: 4.900; 5-year IF: 5.102), vol. 586, pp. 401-408. <http://dx.doi.org/10.1016/j.scitotenv.2016.11.202>.
 19. Li, Xiaoying and Laixiang Sun³. 2017. “How Do Sub-national Institutional Constraints Impact Foreign Firm Performance?” *International Business Review* (2017 IF: 2.754, 5-yr IF: 3.544), vol. 26, no. 3, pp. 555–565. <http://dx.doi.org/10.1016/j.ibusrev.2016.11.004>.
 20. Sun, Laixiang³, In Hyeock Lee, Eunsuk Hong. 2017. “Does Foreign Direct Investment Stimulate New Firm Creation? In Search of Spillovers through Industrial and Geographical Linkages.” *Small Business Economics: An Entrepreneurship Journal* (2017 IF: 2.852), Vol. 48, No. 3, pp. 613–631. DOI: 10.1007/s11187-016-9803-0.
 21. Fan, Dongli, Qiuying Ding, Zhan Tian, Laixiang Sun³, Guenther Fischer. 2017. A Cross-scale Model Coupling Approach to Simulate the Risk-reduction Effect of Natural Adaptation on Soybean Production under Climate Change. *Human and Ecological Risk Assessment: An International Journal* (2016 IF: 1.560), Vol. 23, No. 3, pp. 426–440. DOI: 10.1080/10807039.2016.1221308.
 22. Duarte, Rosa, Kuishuang Feng, Klaus Hubacek, Julio Sánchez-Chóliz, Cristina Sarasa, Laixiang Sun³. 2016. “Modeling the Carbon Consequences of Pro-environmental Consumer Behavior.” *Applied Energy* (2017 IF: 7.9; 5-yr IF: 7.888), Vol. 184, pp. 1207-1216. DOI:10.1016/j.apenergy.2015.09.101.
 23. Liang, Zhuoran, Zhan Tian, Laixiang Sun², Kuishuang Feng, Honglin Zhong, Tingting Gu, Xiaochen Liu. 2016. “Heat wave, electricity rationing, and trade-offs between environmental gains and economic losses: The example of Shanghai.” *Applied Energy* (2017 IF: 7.9; 5-yr IF: 7.888), Vol. 184, pp. 951-959. <http://dx.doi.org/10.1016/j.apenergy.2016.06.045>.
 24. Yang, H., S. Dobbie, J. Ramirez-Villegas, K. Feng, A. J. Challinor, B. Chen, Y. Gao, L. Lee, Y. Yin, L. Sun³, J. Watson, A.-K. Koehler, T. Fan and S. Ghosh. 2016. “Potential negative consequences of geoengineering on crop production: a study of Indian groundnut.” *Geophysical Research Letters* (2017 IF: 4.339; 13/184 in Geosciences Multidisciplinary), Vol. 43, pp. 11,786–11,795. DOI: 10.1002/2016GL071209.
 25. Yan, Jianzhong, Ziyang Yang, Zanhong Li, Xiubin Li, Liangjie Xin, Laixiang Sun³. 2016. “Drivers of cropland abandonment in mountainous areas: A household decision model on farming scale and a case study of Southwest China.” *Land Use Policy* (2017 IF: 3.194; 5-yr IF: 3.622), vol. 57, pp. 459-469. DOI: 10.1016/j.landusepol.2016.06.014.
 26. Feng, Kuishuang, Steven J. Davis, Laixiang Sun³, Klaus Hubacek. 2016. “Reply to ‘Reassessing the contribution of natural gas to US CO2 emission reductions since 2007.’” *Nature Communications* (2017 IF: 12.353, 5-yr IF: 13.691), vol. 7, article 10693, doi: 10.1038/ncomms10693.
 27. Yu, Yang, Kuishuang Feng, Klaus Hubacek, Laixiang Sun³. 2016. “Global Implications of China’s Future Food Consumption.” *Journal of Industrial Ecology* (2017 IF: 4.356), vol. 20, no. 3, pp. 593-602. DOI: 10.1111/jiec.12392.

28. Tan, Minghong, Xiubin Li, Jianzhong Yan, Liangjie Xin, [Laixiang Sun](#)³. 2016. “Length of Stay in Urban Areas of Circular Migrants from the Mountainous Areas in China.” *Journal of Mountain Science* (2017 IF: 1.135), vol. 13, no. 5, pp. 947-956.
29. Kim, Icksoo, Eunsuk Hong, Jong Kook Shin, [Laixiang Sun](#)³. 2016. “Some Bad News is Good News for Foreign Investors: The Case of Intellectual Property Rights Infringement in China.” *Thunderbird International Business Review* (2015 ResearchGate Journal Impact: 1.94) vol. 58, no. 4, pp. 317-329. DOI: 10.1002/tie.21782.
30. Feng, Kuishuang, Steven J. Davis, [Laixiang Sun](#)³. Klaus Hubacek. 2015. “Drivers of the US CO₂ emissions 1997-2013.” *Nature Communications* (2017 IF: 12.353, 5-yr IF: 13.691), vol. 6, article 7714, pages 1-8.
31. Prell, Christina, [Laixiang Sun](#)³. Kuishuang Feng, Tyler W Myroniuk. 2015. “Inequalities in Global Trade: A Cross-country Comparison of Trade Network Position, Economic Wealth, Pollution and Mortality.” *PLOS ONE* (2014 IF: 3.234), vol. 10, no. 12: E0144453. DOI: 10.1371/journal.pone.0144453.
32. Prell, Christina, [Laixiang Sun](#)³. 2015. “Unequal Carbon Exchanges: Understanding Pollution Embodied in Global Trade.” *Environmental Sociology*, vol. 1, no. 4, pp. 256-267. DOI: 10.1080/23251042.2015.1114208.
33. Wang, X., X. Li, G. Fischer, [L. Sun](#)³, M. Tan, L. Xin, Z. Liang. 2015. “Impact of the changing area sown to winter wheat on crop water footprint in the North China Plain.” *Ecological Indicators* (Elsevier. 2016 IF: 3.898; 5-yr IF: 4.254), vol. 57, pp. 100-109. <http://dx.doi.org/10.1016/j.ecolind.2015.04.023>.
34. Hong, Eunsuk, In Hyeock Lee, [Laixiang Sun](#)³, and Richard Harrison. 2015. “Entrepreneurship across Time and Space: Empirical evidence from Korea.” *Small Business Economics: An Entrepreneurship Journal* (2017 IF: 2.852), vol. 44, no. 3 (March), pp. 705–719. DOI 10.1007/s11187-014-9613-1.
35. White, David J., Kuishuang Feng, [Laixiang Sun](#)³, and Klaus Hubacek. 2015. “A Hydro-economic MRIO Analysis of the Haihe River Basin’s Total Water Footprint and Water Stress.” *Ecological Modelling* (2016 IF: 2.363; 5-yr IF: 2.683), vol. 318 (24 Dec.), pp. 157-167, <http://dx.doi.org/10.1016/j.ecolmodel.2015.01.017>.
36. Tian, Z., Z. Liang, [L. Sun](#)², H. Zhong, H. Qiu, G. Fischer, S. Zhao. 2015. “Agriculture under Climate Change in China: Mitigate the Risks by Grasping the Emerging Opportunities”. *Human and Ecological Risk Assessment: An International Journal* (2016 IF: 1.560), vol. 21, no. 5, pp. 1259-1276. DOI: 10.1080/10807039.2014.955392.
37. Hua, Xiuping, [Laixiang Sun](#)³ and Tianyi Wang. 2015. “Impact of Exchange Rate Regime Reform on Asset Returns in China.” *European Journal of Finance* (Taylor & Francis; 2016 IF: 0.795), vol. 21, no. 2, pp. 147-171, DOI: 10.1080/1351847X.2013.838183.
38. Tian, Zhan, Yilong Niu, [Laixiang Sun](#)³, Chang-sheng Li, Chunjiang Liu, Dong-li Fan. 2015. “China’s Rice Field Greenhouse Gas Emission under Climate Change based on DNDC Model Simulation.” *Chinese Journal of Applied Ecology*, vol 26, no. 3, pp. 793-799.
39. Feng, Kuishuang, Klaus Hubacek, [Laixiang Sun](#)³, Zhu Liu. 2014. “Consumption-based CO₂ accounting of China's megacities: the case of Beijing, Tianjin, Shanghai and Chongqing.” *Ecological Indicators* (Elsevier. 2017 IF: 3.983; 5-yr IF: 4.391), vol. 47 (Dec), pp. 26-31, <http://dx.doi.org/10.1016/j.ecolind.2014.04.045>.
40. Prell, Christina, Kuishuang Feng, [Laixiang Sun](#)³, Martha Geores, Klaus Hubacek. 2014. “The Economic Gains and Environmental Losses of US Consumption: A World-Systems and Input-Output Approach.” *Social Forces* (one of top 3 journals in Sociology, 2016 IF: 2.113, 5-Yr

- IF: 2.588), vol. 93, no. 1 (Sep), pp. 405-428, DOI: 10.1093/sf/sou048.
41. Feng, Kuishuang, Klaus Hubacek, Stephan Pfister, Yang Yu, Laixiang Sun³. 2014. "Virtual Scarce Water in China." *Environmental Science and Technology* (2017 IF: 6.653), vol. 48, no. 14 (July 15), pp 7704–7713, <http://dx.doi.org/10.1021/es500502q>.
 42. Tian, Zhan, Honglin Zhong, Laixiang Sun³, Günther Fischer, Harrij van Velthuisen, Zhuoran Liang. 2014. "Improving Performance of Agro-ecological Zone (AEZ) Modeling by cross-scale Model Coupling: An Application to Japonica Rice Production in Northeast China." *Ecological Modelling* (2016 IF: 2.363; 5-yr IF: 2.683), vol. 290 (24 Oct), pp. 155-164, <http://dx.doi.org/10.1016/j.ecolmodel.2013.11.020>.
 43. Qiu, Huanguang, Laixiang Sun², Xinliang Xu, Yaqing Cai. 2014. "Potentials of Crop Residues for Commercial Energy Production in China: A Geographic and Economic Analysis." *Biomass and Bioenergy* (Elsevier. 2015 IF: 3.249; 5-yr IF: 4.146), vol. 64 (May), pp. 110-123. DOI: 10.1016/j.biombioe.2014.03.055.
 44. Lee, In Hyeock, Eunsuk Hong and Laixiang Sun³. 2014. "Inward Foreign Direct Investment and Domestic Entrepreneurship: A Regional Analysis of New Firm Creation in Korea," *Regional Studies* (Taylor & Francis. 2016 IF: 2.780), vol. 48, no 5 (May), pp. 910-922. <http://dx.doi.org/10.1080/00343404.2012.690067>.
 45. Tian, Zhan, Xuchao Yang, Laixiang Sun³, Günther Fischer, Zhuoran Liang, Jie Pan. 2014. "Agroclimatic Conditions in China under Climate Change Scenarios Projected from Regional Climate Models." *International Journal of Climatology* (2016 IF: 3.76), vol. 34, no. 9 (July), pp. 2988–3000, DOI: 10.1002/joc.3892.
 46. Zhu, Quantao, Xinwang Wu and Laixiang Sun³. 2014. "A Generalized Framework for Endogenous Timing in Duopoly Games and an Application to Price-Quantity Competition." *Journal of Economics* (Springer. 2016 IF: 1.304), vol. 112, no. 2 (June), pp. 137-164, <http://dx.doi.org/10.1007/s00712-013-0347-3>.
 47. Feng, K., S.J. Davis, L. Sun³, X. Li, D. Guan, W. Liu, L. Zhu, K. Hubacek. 2013. "Outsourcing CO₂ within China." *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, (2015 Impact Factor: 9.423), vol. 110, no. 28 (9 July), pp. 11654-11659. *Nature Climate Change* (2016 IF: 19.304) published a commentary review for this article: "Carbon emissions in China's trade", by Valerie J. Karplus, *Nature Climate Change* 3, 703–704.
 48. Lee, In Hyeock, Eunsuk Hong and Laixiang Sun³. 2013. "Regional Knowledge Production and Entrepreneurial Firm Creation: Spatial Dynamic Analyses." *Journal of Business Research* (Elsevier. 2016 IF: 3.354; 5-Yr IF: 4.108), vol. 66, no. 10 (Oct.), pp. 2106–2115.
 49. Tian, Zhan, Honglin Zhong, Runhe Shi, Laixiang Sun³, Günther Fischer, Zhuoran Liang. 2012. "Estimating Potential Yield of Wheat Production in China Based on Cross-Scale Data-Model Fusion." *Frontier of Earth Science* (Springer. 2016 IF: 1.051), vol. 6, no. 4 (Dec), pp. 364–372.
 50. Qiu, Huanguang, Laixiang Sun², Jikun Huang and Scott Rozelle. 2012. "Liquid Biofuels in China: Current Status, Government Policies, and Future Opportunities and Challenges," *Renewable & Sustainable Energy Reviews* (Elsevier. 2016 IF: 8.050; 5-yr IF: 9.122), vol. 16, no. 5, pp. 3095-3104.
 51. Wu, Xinwang, Quantao Zhu and Laixiang Sun³. 2012. "On Equivalence between Cournot Competition and Kreps-Scheinkman Game," *International Journal of Industrial Organization* (Top journal in Industrial Organization; Elsevier; 2014 IF: 0.866; 5-Yr IF: 1.246), vol. 30, no. 1 (Jan), pp. 116-125.

52. Hong, Eunsuk and Laixiang Sun². 2011. “Foreign Direct Investment and Total Factor Productivity in China: A Spatial Dynamic Panel Analysis,” *Oxford Bulletin of Economics and Statistics* (Wiley Blackwell. 2015 IF: 1.247), vol. 73, no. 6 (Dec), pp. 771-791.
53. Sun, Laixiang², Eunsuk Hong and Tao Li. 2010. “Incorporating Technology Diffusion, Factor Mobility and Structural Change into cross-region Growth Regression: An application to China”, *Journal of Regional Science* (2016 IF: 1.743; ISI Journal Citation Reports © Ranking: 19/55 in Planning & Development; 50/105 in Environmental Studies; 81/347 in Economics), vol. 50, no. 3 (Aug), pp. 734–755.
54. Li, Tao, Laixiang Sun², and Liang Zou. 2009. “State Ownership and Corporate Performance: A Quantile Regression Analysis of Chinese Listed Companies,” *China Economic Review* (Elsevier; 2016 IF: 1.366; 5-yr IF: 2.008), vol. 20, no. 4, pp. 703-716.
55. Fischer, Günther, T. Ermolieva, Y. Ermoliv, and Laixiang Sun³. 2009. “Risk-adjusted Approaches for Planning Sustainable Agriculture”, *Stochastic Environmental Research and Risk Assessment* (Springer Berlin/Heidelberg; 2016 IF: 2.629), vol. 23, no. 4, pp.441-450.
56. Tobin, Damian and Laixiang Sun². 2009. “International Listing as a Means to Mobilize the Benefits of Financial Globalization: Micro-Level Evidence from China”, *World Development* (Top journal in Development Studies; Elsevier; 2016 IF: 2.848; 5-yr IF: 3.354), vol. 37, no. 4, pp. 825–838.
57. Pesqué-Cela, Vanesa, Ran Tao, Yongdong Liu, and Laixiang Sun². 2009. “Challenging, Complementing or Assuming ‘the Mandate of Heaven’? Political Distrust and the Rise of Self-Governing Social Organizations in Rural China,” *Journal of Comparative Economics* (Top journal in Comparative Economics; Elsevier; 2015 IF: 1.380; 5-yr IF: 1.568), vol. 37, no. 1, pp. 151-168.
58. Brück, Sebastian and Laixiang Sun². 2008. “Dream of the Red Financial Supermarket: The Gradual Emergence of Integrated Financial Services Provision in China in the 21st Century”, *Journal of Chinese Economic & Business Studies* (Taylor & Francis), vol. 6, no. 4, pp. 385-405.
59. Brück, Sebastian and Laixiang Sun². 2007. “Achieving Effective Governance under Divided Government and Private Interest Group Pressure: Taiwan’s 2001 Financial Holding Company Law,” *Journal of Contemporary China* (Routledge; 2015 IF: 1.35; Rank in Area Studies: 5/69), vol. 16, no. 53, pp. 655-680.
60. Hong, Eunsuk and Laixiang Sun². 2006. “Dynamics of Internationalization and Outward Investment: Chinese Corporations' Strategies”, *China Quarterly* (Top journal in Areas Studies; Cambridge University Press; 2015 IF: 1.540), no. 187, pp. 610-634.
61. Sun, Laixiang², and Damian Tobin. 2005. “International Listing as a Mechanism of Commitment to More Credible Corporate Governance Practices: the case of the Bank of China (Hong Kong)”, *Corporate Governance: An International Review* (Blackwell Publishing; 2016 IF: 3.571), vol. 13, no. 1, pp. 81-91.
62. Hubacek, Klaus and Laixiang Sun³. 2005. “Economic and Societal Changes in China and their Effects on Water Use: A Scenario Analysis”, *Journal of Industrial Ecology* (The MIT Press; 2016 IF: 4.123) vol. 9, no. 1-2, pp. 187-200.
63. Liu, Huan and Laixiang Sun². 2004. “Beyond Phase-out of Quota in Textile and Clothing Trading: WTO-plus Rules and the Case of US Safeguards against Chinese Exports in 2003”, *Asia-Pacific Development Journal* (United Nations Economic and Social Commission for Asia and the Pacific), vol. 11, no. 1, pp. 49-71.

64. Liu, Hui, Xiubin LI, Günther Fischer, and Laixiang Sun³. 2004. “Study on the Impact of Climate Change on China’s Agriculture”, *Climatic Change* (2016 IF: 3.496), vol. 65, issue 1-2, pp. 125-148.
65. Giljum, Stefan, Klaus Hubacek, and Laixiang Sun³. 2004. “Beyond the Simple Material Balance: A Reply to Sangwong Suh’s Note on Physical Input-Output Analysis”, *Ecological Economics* (Elsevier Science; 2015 IF: 3.227; 5-yr IF: 4.227), vol. 48, no. 1, pp. 19-22.
66. Sun, Laixiang¹. 2002. “Adaptive Efficiency and Evolving Diversity of Enterprise Ownership and Governance”, *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2015 IF: 1.380; 5-yr IF: 1.568), vol. 30, no. 4, pp. 754-758.
67. Sun, Laixiang¹. 2002. “Fading Out of Local Government Ownership: Recent Ownership Reform in China's Township and Village Enterprises”, *Economic Systems* (Elsevier. 2016 IF: 1.197; 5 yr IF: 1.270), vol. 26, no. 3, pp. 249-269.
68. Hubacek, Klaus and Laixiang Sun³. 2001. “A Scenario Analysis of China’s Land Use and Land Cover Change: Incorporating Biophysical Information into Input-Output Modeling,” *Structural Change and Economic Dynamics* (Elsevier. 2015 IF: 0.829), Vol. 12, No. 4, pp. 367-397.
69. Sun, Laixiang¹. 2001. “Price Scissors, Rationing, and Coercion: An Extended Framework for Understanding Primitive Socialist Accumulation,” *Economics of Planning (Economic Change and Restructuring since 2005; Kluwer Academic Publishers, Springer Netherlands)*, Vol. 34, No. 3, pp. 195-213.
70. Fischer, Günther and Laixiang Sun³. 2001. “Model Based Analysis of Future Land Use Development in China,” *Agriculture, Ecosystems and Environment* (Elsevier Science; 2016 IF: 4.099; 5-yr IF: 4.678), Vol. 85, Issues 1-3, pp.163-176.
71. Zou, Liang and Laixiang Sun². 2000. “Liability Sharing as a Mechanism to Improve Firms’ Investment and Liquidation Decisions,” *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2015 IF: 1.380; 5-yr IF: 1.568), Vol. 28, No. 4, pp. 739-762.
72. Sun, Laixiang¹. 2000. “Anticipatory Ownership Reform Driven by Competition: China's Township-Village and Private Enterprises in the 1990s,” *Comparative Economic Studies* (USA: The ACES; Palgrave Macmillan), Vol. 42, No. 3, pp. 49-75.
73. Perotti, Enrico, Laixiang Sun², and Liang Zou. 1999. “State-Owned versus Township-Village Enterprises in China,” *Comparative Economic Studies* (USA: the ACES; Palgrave Macmillan), Vol. 41, No.2-3, pp. 151-179. Collected in Brada, J., Wachtel, P., Yang, D., Buitenhuis, P. (Eds.), 2014. *China's Economic Development*, pp. 33-59. Palgrave Readers in Economics, Palgrave Macmillan UK. DOI: 10.1057/9781137469960.
74. Sun, Laixiang¹. 1998. “Estimating Investment Functions Based on Cointegration: The Case of China,” *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2014 IF: 1.170; 5-yr IF: 1.695), Vol. 26, No.1, pp.175-191.
75. Sun, Laixiang¹. 1998. “Unorthodox Ownership and Governance Structures in East Asia,” *MOCT-MOST: Economic Policy in Transitional Economies* (Kluwer Academic Publishers, Springer Netherlands), Vol. 8, No.1, pp.33-62.
76. Zou, Liang and Laixiang Sun². 1996. “Interest Rate Policy and Incentives of State-Owned Enterprises in the Transitional China,” *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2015 IF: 1.380; 5-yr IF: 1.568), Vol. 23, No.3, pp. 292-318.

Editorship and Contributor

77. Sun, Laixiang,² and Damian Tobin. 2008. Guest Editor of a Special Issue on “China’s Adaptation to Global Best Business Practices”, *Journal of Chinese Economic & Business Studies* (Taylor & Francis), vol. 6, no. 4.
78. Sun, Laixiang.¹ 2002. Guest Editor of a Symposium on “Adaptive Efficiency and Evolving Diversity of Enterprise Ownership and Governance”, *Journal of Comparative Economics* (Academic Press, Elsevier Science. 2015 IF: 1.380; 5-yr IF: 1.568), vol. 30, no. 4, pp. 754-863.
79. Sun, Laixiang.¹ 2003. Editor of a UNU/WIDER Project book (with the authorship for two chapters), *Ownership and Governance of Enterprises: Recent Innovative Developments*. London: Palgrave Macmillan Press and New York: St Martin’s Press, 275 pages. ISBN 1-4039-1633-0.

Books

80. Sun, Laixiang.¹ 2001. *Aggregate Behavior of Investment in China, 1953-96: An Analysis of Investment Hunger and Fluctuation*, London: Palgrave Macmillan Press and New York: St Martin’s Press (2001). 304 pages. ISBN 0-333-94809-2.
81. Sun, Laixiang.¹ 1999. *The Evolutionary Dynamics of China’s Small and Medium-sized Enterprises in the 1990s*, World Development Studies Series, WDS 14, Helsinki: WIDER of United Nations University. 119 + x pages. ISBN 952-9520-91-3.
82. Sun, Laixiang.¹ 1990. *Normative Economics and Social Choice Theory* (in Chinese), Beijing: Peking University Press (February 1990). 210 pages. ISBN 7-301-00883-X/F.078.
83. Liu, Wei and Sun, Laixiang.² 1987. *Analysis of Socialist Economic Processes* (in Chinese), Beijing: Peking University Press (1987), 180 pages.

Chapters in Books

84. Hubacek, K., G. Baiocchi, K. Feng, R. M. Castillo, L Sun³, J Xue. 2017. “Global income inequality and carbon footprints: Can we have the cake and eat it too?” In Óscar Dejuán, Manfred Lenzen and María-Ángeles Cadarso (eds.) *Environmental and Economic Impacts of Decarbonization: Input-output studies on the consequences of the 2015 Paris Agreement*, pp. 111-124 (Chapter 5). Routledge. ISBN: 978-0-415-78740-6 (hbk), ISBN: 978-1-315-22593-7 (ebk).
85. Prell, Christina, Klaus Hubacek, Laixiang Sun³ and Kuishuang Feng. 2017. “Global Trade, Pollution and Mortality.” In Joy Murray, Arunima Malik, and Arne Geschke (eds.) *The Social Effects of Global Trade*, pp. 161-171 (Chapter 12). Pan Stanford Publishing Pte. Ltd. ISBN 978-981-4774-55-0 (Hardcover), 978-020-3728-71-0 (eBook), www.panstanford.com.
86. Fan, Dongli, Qiuying Ding, Zhan Tian, Laixiang Sun,³ Günther Fischer. 2015. “Simulating the Adaptive Measures of Soybean Production to Climate Change in China: Based on Cross-scale Model Coupling.” In Chongfu Huang, Abdelouahid Lyhyaoui, Zhai Guofang, Nesrin Benhayoun (eds.) *Emerging Economies, Risk and Development, and Intelligent Technology*, pp. 143-149. CRC Press, Taylor & Francis Group. ISBN 978-1-138-02745-9.
87. Sun, Laixiang.¹ 2014. “Food Security and Agriculture in China”, in *The Oxford Companion to the Economics of China*, Shenggen Fan, Ravi Kanbur, Shang-Jin Wei and Xiaobo Zhang

- (eds.), pp. 299-303. Oxford: Oxford University Press.
88. Tian, Z., Z. Liang, H. Qiu, L. Sun,² H. Zhong, G. Fischer, H. van Velthuisen, G. Cao, S. Zhao. 2013. “Upside Potential versus Downside Risk in Chinese Agriculture under Climate Change.” In Chongfu Huang and Cengiz Kahraman (eds.) *Intelligent Systems and Decision Making for Risk Analysis and Crisis Response*. CRC Press, Taylor & Francis Group. ISBN 978-1-138-00019-3.
 89. Tian, Z., H. Zhong, L. Sun,³ G. Fischer, Z. Liang. 2012. “Estimating Potential Yield of Wheat Production in China Based on Cross-Scale Data-Model Fusion”, in: *Plant Growth Modeling, Simulation, Visualization and Applications (PMA)*, 2012 IEEE Fourth International Symposium on (ISBN: 978-1-4673-0067-4), pp. 388-395, DOI: 10.1109/PMA.2012.6524862.
 90. Sun, Laixiang.¹ 2012. “Forward”, in *Economic Reform and Development in China*. Cambridge: Cambridge University Press (also Beijing: Foreign Language Teaching and Research Press, 2010. ISBN: 978-1-107-02405-2).
 91. Fischer, G., T. Ermolieva, and L. Sun.³ 2010. “Planning sustainable agricultural development under risks.” In: *Coping with Uncertainty: Robust Solutions*, K. Marti, Y. Ermoliev, M. Makowski (eds), Springer-Verlag, Heidelberg, Germany, pp. 209-226.
 92. Sun, Laixiang,¹ and Yi Luo. 2009. “Impact of Increasing Feed and Meat Demand on China’s Agriculture and Environment”, in Lee, Xuhui (ed.), *Lectures on China’s Environment*, Chapter 10, pp. 121-134. Yale School of Forestry & Environmental Studies Publication Series Report Number 20, Yale University.
 93. Sun, Laixiang.¹ 2005. “Ownership Reform in China’s Township and Village Enterprises”, in Green, Stephen and Guy Liu (eds.), *Exit the dragon? Privatization and State Ownership in China*, Chapter 5, pp. 90-110. London: Blackwell Publishing.
 94. Hubacek, Klaus, Dabo Guan, and Laixiang Sun.³ 2005. “An Analysis of China’s Water Problems: A Long Term Perspective”, in Leal Filho, W. (ed), *Handbook of Sustainability Research*, Part 1, Chapter 5. Frankfurt: Peter Lang Scientific Publishing (ISBN: 3-631-52606-7 / US-ISBN: 0-8204-7308-1).
 95. Fischer, G., F. Zhang, and L. Sun.³ 2004. “The Role of Government in Combating Desertification,” in Shi G., W. Du, J. Li and T. Zhao (eds.), *Proceedings of the China-EU Workshop on Integrated Approach to Combat Desertification*, 15-17 October 2003, Beijing, P.R. China. pp. 171-184 (English version); pp. 133-143 (Chinese version). Beijing: China Association for International Science and Technology Cooperation (CAISTC).
 96. Sun, Laixiang.¹ 2003. “Adaptive Efficiency and Evolving Diversity of Enterprise Ownership and Governance Forms: An Overview”, in Sun, Laixiang (ed.), *Ownership and Governance of Enterprises: Recent Unconventional Development*, Chapter 1. pp. 1-35. London: Palgrave Macmillan Press and New York: St Martin’s Press.
 97. Sun, Laixiang.¹ 2003. “Evolving and Functioning Mechanisms of Employee Stock Ownership in China’s Township-Village Enterprises”, in Sun, Laixiang (ed.), *Ownership and Governance of Enterprises: Recent Unconventional Development*, Chapter 6. pp. 159-180. London: Palgrave Macmillan Press and New York: St Martin’s Press.
 98. Sun, Laixiang.¹ 2003. “An Evolving Diversity of Ownership Forms and Implications for the Reforms of State-Owned Enterprises”, in Drysdale, Peter, Yiping Huang and Masahiro Kawai (eds.), *Achieving High Growth: Experience of Transitional Economies in East Asia*, Chapter 7, London and Sydney: Routledge.

99. Sun, Laixiang.¹ 2003. "Ownership Reform in the Absence of Crisis: China's Township, Village and Private Enterprises in the 1990s", in McIntyre, Robert and Bruno Dallago (eds.), *Great Hopes and Mixed Achievements: SMEs in Transitional Economies*, Chapter 9, pp. 134-152. London: Palgrave Macmillan Press and New York: St Martin's Press. ISBN 1-4039-0800-1.
100. Sun, Laixiang,³ and Marc Wuyts. 2002. "The Employment Relation in Industrial Transition: The Case of China", in *International Development: Challenges for a World in Transition*, Open University course U213. Transitions volume, Chapter 3, pp. 52-88 (Co-author:). Milton Keynes: The Open University. ISBN 0 7492 3786 4.
101. Albersen, Peter, Günther Fischer, Michiel Keyzer, and Laixiang Sun.² 2002. "Towards Estimating Agricultural Production Relations for China", in Song, Ligang (ed.), *Dilemmas of China's Growth in the Twenty-First Century*, Chapter 9, pp. 135-175. Canberra: Asia Pacific Press. ISBN 0 7315 3666 5.
102. Albersen, Peter and Laixiang Sun.³ 2001. "Land Degradation as a Transformation Process in an Intertemporal Welfare Optimization Framework," in Nico Heerink, Herman van Keulen and Marijke Kuiper (eds.), *Economic Policy and Sustainable Land Use: Recent Advances in Quantitative Analyses for Developing Countries*, Chapter 4, pp. 59-72. New York: Springer Physika-Verlag, ISBN 3 7908 1315 6.
103. Sun, Laixiang.¹ 2001. "Unorthodox Ownership and Governance Structures in Transitional East Asia," in Cornia, G. A. and V. Popov (eds.) *Transition and Institutions: The Experience of Slow and Late Reformers*, Chapter 9, pp. 171-191. Oxford: Oxford University Press, ISBN 0 19 924218 6.
104. Hubacek, Klaus and Laixiang Sun.³ 2001. "Land-Use Change in China: Combining Geographic Information System and Input-Output Analysis," in Marek Makowski and Hirotaka Nakayama (eds.), *Natural Environment Management and Applied Systems Analysis*, Laxenburg: International Institute for Applied Systems Analysis and Kobe: Konan University, Chapter 12, pp. 213-243.

Selected Project-Reports and Other Published Articles

105. Fischer, G., J. Huang, M. A. Keyzer, H. Qiu, L. Sun,³ and W.C.M. van Veen. 2007. *China's Agricultural Prospects and Challenges: Report on Scenario Simulations until 2030 with the Chinagro Welfare Model Covering National, regional and County Level*. Project Report submitted to the EU and Dutch Government, Centre for World Food Studies, Free University of Amsterdam, Dec. 2007.
106. Albersen, Peter, Günther Fischer, Michiel Keyzer and Laixiang Sun.³ 2002. "Estimation of Agricultural Production Relations in the LUC Model for China," Research Report RR-02-03, April 2002, IIASA, Laxenburg, Austria and SOW, Free University of Amsterdam, The Netherlands. ISBN 3-7045-0142-5.
107. Sun, Laixiang.¹ 2001. "Economics of China's Joint-Stock Cooperatives," Discussion Paper No. 2001/24, UNU/WIDER, Helsinki, July 2001, ISBN 952-455-172-1.
108. Sun, Laixiang.¹ 2001. "New Paradigms on Ownership of the Firm: A Comparative Analysis across Development Stages and Institutional and Technological Contexts," Working Paper No. 192, UNU/WIDER, Helsinki, August 2000, ISBN 952-455-074-1.
109. Hubacek, Klaus and Laixiang Sun.³ 2000. "Dance with the Increasing Scarcity of Land: A Scenario Analysis for China in 2025", IFAS Forum, 1/2000, pp. 9-16. IFAS Interdisciplinary

Research Institute for Asian Studies, Vienna.

110. Sun, Laixiang.¹ 2000. "The Specification of the LUC Core Model for GAMS Implementation," Internal Working Document, IIASA, Laxenburg, Austria.
111. Hubacek, Klaus and Laixiang Sun.³ 2000. "Land Use Change at the National and Regional Levels in China: A Scenario Analysis Based on Input-Output Modeling," Interim Report IR-00-53, 2000, IIASA, Laxenburg, Austria.
112. Zou, Liang and Laixiang Sun.³ 1998. "A Theory of Risk Pooling and Voluntary Liquidation of Firms," Discussion Paper TI 98-123/2, Tinbergen Institute, Amsterdam, November 1998, ISSN 0929-0834.
113. Fischer, Günther, Yufeng Chen, and Laixiang Sun.⁴ 1998. "The Balance of Cultivated Land in China During 1988-1995," Interim Report IR-98-047/August, 1998. IIASA, Laxenburg, Austria.
114. Rossmann, Charles and Laixiang Sun.² 1998. "Land-Use Change in China," presented at the Twelfth International Conference on Input-Output Techniques, New York, 18-22 May 1998.
115. Li, Xiubin and Laixiang Sun.² 1997. "Driving Forces of Arable Land Conversion in China," Interim Report 97-076/Sept, 1997, IIASA, Laxenburg, Austria.
116. Sun, Laixiang.¹ 1997. "Emergence of Unorthodox Ownership and Governance Structures in East Asia: An Alternative Transition Path," Research for Action Series RFA38, UNU/WIDER, Helsinki, Finland, July 1997. viii + 55 pages. ISBN 952-9520-62-X.
117. Sun, Laixiang.¹ 1995. "Modeling Transactions Demand for Cash in China (1952-1992): Based on Cointegration," presented at the Mid-term Meeting of EADI Working Group on Monetary and Financial Affairs, University of Glasgow, 24-25 March 1995.
118. Sun, Laixiang.¹ 1993. "Institutional Changes, Superexogeneity, and Money Demand Function with Constancy: An Empirical Studies of China's Case," presented at the 7th General Conference of European Association of Development Research and Training Institutes (EADI), Technical University of Berlin, 15-18 September 1993.
119. Sun, Laixiang.¹ 1993. "Investment Cycle and Its Determinants in China: 1952-1990," presented at the International Conference on the Asian Pacific Economy, Cairns, Australia, 25-28 August 1993.
120. Sun, Laixiang.¹ 1990. "The Supply-Demand Gap in a State of Normal Shortage and Price Level Determination in China," presented at International Conference on Quantitative Economics in Beijing (24-27 June 1990).

Articles published in National Refereed Journals (in Chinese)

121. Ding, Qiuying, Zhan Tian, Dongli Fan, Laixiang Sun³, Günther Fischer. 2016. "A Study of the Impact on Soybean Potential under Climate Change." *Journal of Risk Analysis and Crisis Response*, Vol. 6, No. 2, pp.95-102.
122. Tang, X., X. Yang, Z. Tian, G. Fischer, Laixiang Sun,³ J. Pan. 2011. "Impacts of Climate Change on Agro-Climatic Resources in China," *Resources Science*, Vol. 33, No.10, pp. 1962-1968.
123. Sun, Laixiang.¹ 2010. "Who will feed China's livestock?" *The Twenty-First Century Review* (Chinese University of Hong Kong), No. 121 (Oct 2010): 39-41.
124. Fischer, G., G-Y Cao, T. Ermolieva, L. Sun,⁴ and Xiaoying Zheng. 2008. "Urbanization and Livestock Production Projection: An approach to healthy and environmental risks," *Population and Development*, 14 (6): 1668-1674.
125. Sun, Laixiang.¹ 1995. "Fallacies of Induction in Debates on Reform Strategy," *Strategy and*

- Management*, No. 1 (Jan. 1995): 108-13.
126. Sun, Laixiang.¹ 1991. "The Demand for Money (M0) in the Context of Institutional Change: Theoretical Formulation and Empirical Results," *Economic Research Journal*, No.11 (Nov. 1991): 63-72.
 127. Sun, Laixiang.² and Zunkai Fang. 1991. "The Determination of State Procurement Price for Agricultural Products in China: Behavior Model and Empirical Testing," *Economic Research Journal*, No.5 (May 1991): 35-41.
 128. Sun, Laixiang.¹ 1991. "The Objective Function and Wage Cost in Chinese Enterprises," *Journal of Economic Science*, No.4 (Aug. 1991): 59-62.
 129. Li, Yining, Laixiang Sun,² and Gang Yun. 1990. "Demand-Supply Gap under the Normal Shortage Intensity and the Determinants of Aggregate Price Level in China," *Management World*, No. 5 (May 1990): 135-145.
 130. Sun, Laixiang.¹ 1990. "Efficiency Mechanism and Dynamic Organizational Economic Analysis," *Economic Information*, No.2 (Feb. 1990): 48-52.
 131. Liu, Wei and Laixiang Sun.² 1990. "Comments on Li Yining's Socialist Political Economy," *Social Sciences in China* (English version), Autumn, 1990, pp.205-14.
 132. Sun, Laixiang.¹ 1989. "The Optimal Distribution of Income and the Justice Rule of Competition," *The Chinese Intellectual*, No.1 (Jan. 1989): 63-68.
 133. Sun, Laixiang.¹ 1989. "Endogenous Inflation and Reform of Ownership," *Information of Economic Literature*, No.1 (Jan. 1989): 6-11.
 134. Sun, Laixiang.¹ 1989. "The Special Contradictions in Our Economy and the Key Choices for Our Reform," *Qiushi* (Theoretical Journal of the Central Committee of the Communist Party of China), No.4 (Feb. 1989): 27-31.
 135. Sun, Laixiang.¹ 1988. "On Major Problems Related to the Price Reform," *Hunan Economy*, No.9 (Sep. 1988): 1-5.
 136. Sun, Laixiang.¹ 1988. "The Framework of Economic Surplus and Its Application in Economic Policy Analysis," *Towards Future*, Vol.3, No. 1 (Feb. 1988): 72-78.
 137. Sun, Laixiang.¹ 1988. "On the Economic Development Strategy of Shandong Province," *Towards the World*, No.3 (1988): 7.
 138. Sun, Laixiang.¹ 1987. "James Buchanan and Public Choice School," *Towards Future*, Vol.2, No.1 (Mar. 1987): 148-153.
 139. Chen, Liangkun and Laixiang Sun.² 1987. "A Research Report on China's Retirement System," *Social Science in Beijing*, No.4 (Aug. 1987): 136-45.
 140. Chen, Liangkun, Laixiang Sun.² and Lining Shao. 1987. "Aging Population: An Urgent Challenge and Relevant Choices," *Research of Planned Economy*, No.4 (Supplement), (Aug. 1987): 52-62.
 141. Sun, Laixiang.¹ 1986. "Positive versus Normative Approaches in Economics and Science," *Economic Information*, No.6, (June 1986): 52-56.
 142. Sun, Laixiang.¹ 1986. "Social Choice – An Eternal Puzzle?" *Journal of Peking University* (Social Sciences), No.6 (Nov. 1986): 74-79.
 143. Sun, Laixiang.¹ 1986. "Government Failures – Image and Reality," *Reference to Policy Making*, No.11/12 (Nov. 1986): 47-51.
 144. Sun, Laixiang.¹ 1986. "On Arrow's Impossibility Theorem," *Towards Future*, Vol.1, No.1 (Aug. 1986): 118-121.

Selected Chapters in Books (in Chinese)

145. Fischer, Günther, Laixiang Sun,² and Xiangzhen Deng. 2009. "Assessing Potential Productivity of Agriculture and Agro-Ecological Zone Modelling," in Yu, Guirui (ed.), *The Frontier Research Topics in Human Activities and Changes in Ecological System* (Beijing: High Education Publishing House, 2009), Chapter 25.
146. Sun, Laixiang.¹ 1992. "Inflation and Pricing Mechanism," in Li, Yining (ed.), *The Positive Analysis of China's Macro-Economy* (Beijing: Peking University Press), Chapter 11.
147. Sun, Laixiang ² and Lan Zhang. 1992. "A Survey on the Economic Efficiency of State-Owned Enterprises," in Li, Yining (ed.), *The Functioning Mechanism of China's Commodity Economy* (Beijing: China Economy Press), Chapter 1.
148. Li, Yining, Laixiang Sun ² and Gang Yun. 1992. "The Fluctuations of General Price Level," in Li, Yining (ed.), *The Functioning Mechanism of China's Commodity Economy* (Beijing: China Economy Press): Chapter 7.
149. Li, Yining and Laixiang Sun.¹ 1992. "Towards Well-Off Together on the Basis of Rising Efficiency," in Li, Yining (ed.), *The Functioning Mechanism of China's Commodity Economy* (Beijing: China Economy Press), Chapter 9.
150. Sun, Laixiang.¹ 1989. "The Challenges to and Innovations in Economics," in Li Yining (ed.), *The Guide to China's Economic Reform* (Beijing: China Zhanwang Press), pp.204-217.
151. Li, Yining, Laixiang Sun,³ and others. 1988. "A Program for the Reform of China's Economic System in 1988-1995," in State System Reform Commission of China (eds.), *The Main Train of Thought for China's Reform* (China: Liaoning Press, 1988), pp.90-128.

Review Articles (in English)

152. Book Review, *Linkages between China's Regions: Measurement and Policy* (by Nicolaas Groenewold, Anping Chen and Guoping Lee), *China Journal*, no. 62 (July 2009): 190-192.
153. Book Review, *Business Networks and Strategic Alliances in China* (edited by Stewart Clegg, Karen Wang and Mike Berrell), *China Quarterly*, no. 196 (Dec. 2008): 931-932.
154. Book Review, *Towards a Labour Market in China* (by John Knight and Lina Song), *Economica*, 74, 294 (May 2007): 375-376.
155. Book Review, *China and the World Trading System: Entering the New Millennium* (Edited by Deborah Z. Cass, Brett G. Williams and George Barker), *China Journal*, no. 52 (July 2004): 197-198.
156. Book Review, *The Development of China's Stock Market, 1984-2002* (by Stephen Green), *China Quarterly*, no. 178 (June 2004): 513-514.
157. Book Review, *Integrating China into the Global Economy* (by Nicholas Lardy), *China Quarterly*, no. 176 (Dec. 2003): 1084-85.
158. Book Review, *The Development of Corporate Governance in China* (by On Kit Tam), *Asian-Pacific Economic Literature* 15, 2 (Nov. 2001): 44-45.
159. Book Review, *The China Miracle: Development Strategy and Economic Reform* (by Justin Y. Lin, Fang Cai and Zhou Li), *Development and Change* 29, 2 (April 1998).
160. Book Review, *Growing out of the Plan: Chinese Economic Reform, 1978-1993* (by B.J. Naughton), *Development and Change* 28, 2 (April 1997).
161. Book Review, *Bureaucracy, Politics, and Decision Making in Post-Mao China* (K.G. Lieberthal and D.M. Lampton [eds.]), *Development and Change* 26, 4 (Oct. 1995).
162. Book Review, *Chinese Economy in Transition* (Y. Wu and X. Zhang [eds.]), *Development and Change* 26, 3 (July 1995): 601-03.

163. “Comments on Li Yining's *Socialist Political Economy*,” *Social Sciences in China*, Autumn, 1990, pp.205-14 (co-author: Wei LIU).

Major Research Projects

- Co-Principal Investigator in a Research Project sponsored by the Met Office and Newton Fund of the UK – “Providing predictions of typhoon season characteristics for shipping in the Pearl River Delta.” April 2019-March 2021 (GBP400,000).
- Co-Principal Investigator in a Research Project sponsored by NWO (The Netherland)-NSFC (China)-EPSRC (UK) – “Sustainable Solutions for Managing Compound Flood Risks under Future Uncertainties: The Case of Shanghai City and the Yangtze River Delta Region.” Dec 2017-Nov 2020 (EUR 280,000 + RMB 3 million + GBP 300,000).
- Co-Principal Investigator in NASA project – “A Cobra in the Forest? Quantifying the Political Drivers and Socio-Economic Impacts of Perverse Incentives from Indonesia’s Deforestation Moratorium, 2011 to 2016” and “Forest Change and Oil Palm Expansion in Southeast Asia: Historical Patterns, Socioeconomic Drivers, and Future Projection.” July 2018-June 2021 (USD 825,000).
- Co-investigator in a NASA project – “Integrating Remote Sensing Observations with NASA’s GEOS-5 Modeling Framework in Support of Retrospective Analyses and Seasonal Prediction of Biosphere-Atmosphere CO₂ Flux,” July 2017-June 2020 (USD 1,809,744).
- Co-Investigator in a research project sponsored by DfiD (UK) – “Modelling Early Risk Indicators to Anticipate Malnutrition (MERIAM),” implemented mainly by the UMD team, Feb 2017-Aug 2020 (GBP 2,750.00).
- Principal Investigator in a Research Project sponsored by the Met Office and Newton Fund of the UK – “Development of an Integrated Urban Framework for Climate Services in the Yangtze River Delta Region”, July 2017-July 2019 (BGP 155,000).
- Co-investigator in an ESRC project – “Research on China's Financial System towards Sustainable Growth: The Role of Innovation, Diversity and Financial Regulation”, Jan 2017-Dec 2019 (GBP 323,998, <http://gtr.rcuk.ac.uk/projects?ref=ES%2FP005241%2F1>).
- Co-Principal Investigator in a Horizon 2020 project of the European Commission – “Guiding European Policy towards a low-carbon economy. Modelling sustainable Energy system Development under Environmental And Socioeconomic constrains (MEDEAS)”, Jan 2016-Dec 2019 (Contract number: LCE-21-2015-691287; EUR 3,736,000).
- Co-Principal Investigator in a Research Project of China Prosperity Strategic Programme Fund sponsored by the Foreign and Commonwealth Office (FCO) of the UK – “Climate Risk Assessment for the City Cluster in the China Yangtze River Delta Region: Using UK experiences”, May 2016-March 2017 (GBP 100,000).
- Co-Principal Investigator in a Research Project of China Prosperity Strategic Programme Fund sponsored by the Foreign and Commonwealth Office (FCO) of the UK – “A Study of Flood Control Strategies for Shanghai to Respond to Climate Change”, May 2015-Nov 2016 (GBP 84,520).
- Co-Principal Investigator in a Project of the General Programme of the National Natural Science Foundation of China – “Assessing Regional Suitability and Comparable Advantages for Growing Oil Crops in China under Climate Change”, Jan 2014-Dec 2017 (RMB 800,000).
- Co-Principal Investigator in a Major International Joint Project of the National Natural

Science Foundation of China – “Integrated Analysis and Modelling of Land Use Efficiency and Security under Rapid Agricultural Transformation in China”, Jan 2012-Dec 2016 (Contract number: NSFC-41161140352; RMB 2.2 million + EUR 200,000).

- Co-Principal Investigator in a Major International Joint Project of the National Natural Science Foundation of China – “Assessing the Impact of Climate Change and Intensive Human Activities on China's Agro-Ecosystem and its Supply Potentials”, Jan 2010-Dec 2012 (Contract number: NSFC-40921140410; RMB 1.2 million + EUR 100,000).
- Principal Investigator and Sponsor of Newton International Fellowship, 2009-2011, awarded by British Academy, Royal Academy of Engineering, and Royal Society, on “The Economics of Biofuel Production: Social and Environmental Impacts in China”.
- Leading Scientist of the SOAS Team in the EU 6th Framework Project on “Chinese Agricultural Transition: Trade, Social and Environmental Impacts” (Contract number: 44255-CATSEI), Jan 2007-June 2010.
- Leading Scientist in the research project of Chinese Academy of Sciences on “Human Activities and Changes of Terrestrial Ecosystems in China”. December 2005-June 2009. Host Institute: Institute of Geographic Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences.
- Principal Investigator and Sponsor of British Academy Visiting Fellowship, 2006, 2009, 2011, awarded by British Academy.
- Principal Organizer of Chinese Economic Association (UK/Europe) 2012 Annual Conference on “The Chinese Way of Economic Reform and Development and Its Interaction with Globalization”, sponsored by British Academy and SOAS.
- Leading Model-Builder in the EU 5th Framework Project on “Policy Decision Support for Sustainable Adaptation of China’s Agriculture to Globalization (CHINAGRO)” (Contract number: ICA4-CT-2001-10085), Oct 2001-Jan 2005.
- Project Director of the United Nations University (UNU) on “Property Rights Regimes, Microeconomic Incentives and Development,” UNU/WIDER, Helsinki, Finland, January 2000-December 2002.
- Consultant/Researcher in the Project: “Small and Medium-sized Enterprises in Transition: How does Entrepreneurship Develop in Post-Socialist State,” World Institute for Development Economics Research (UNU/WIDER), Helsinki, Finland, March 1998-October 1999.
- Consultant/Researcher in Project: “Economic Theories and Strategies of the Transition,” UNU/WIDER, Helsinki, Finland, March 1996-October 1997.
- Core Team Member and Senior Research Fellow in the State Priority Project: “The Reform Program of China's Economic System in 1988-95,” State System Reform Commission, Beijing, China, Feb. 1988-Feb. 1989.
- Core Team Member and Senior Research Fellow in the State Research Project: “The Welfare Models of Chinese Society,” Ministry of Labor and Personnel Administration, Beijing, China, 1987-1988.
- Core Team Member and Senior Research Fellow in the State Research Project: “Mobility of Labor Force and Economic Development,” Institute of Economic Research, State Planning Commission, Beijing, China, 1986-1988.

Other Responsibilities Held

- President-elected (for 2011-12) and Member of the Board of Directors, Chinese Economist Association (UK/Europe).
- President of Science Society of Young Professional Staffs of Peking University, Beijing, China, 1987-1989.

Teaching Experience

Courses taught in the last ten years:

- *Applied Spatial Econometrics* (GEOG 423/732) PhD students and senior undergraduates, Department of Geographical Sciences, University of Maryland, College Park, USA, Fall Semester 2014, 2015, 2016, 2017, 2018, 2019.
- *Urban Geography* (GEOG 333), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring Semester 2018, 2019.
- *Introduction to Human Dimensions of Global Change* (GEOG 331), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring Semester 2017.
- *Land Use and Urban Economics* (GEOG 498L/788L) senior undergraduate and PhD students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring Semesters 2015, 2016.
- *Conceptualizing and Modelling Human-Environmental Interactions* (GEOG 416), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring and Fall Semesters 2014.
- *Corporate Governance*, for MSc and PhD students, DeFiMS/SOAS, University of London, UK, January-March (or April) 2003-2012. 15-20 students per year.
- *Management in China II: International Dimensions*, for MSc students, DeFiMS/SOAS, University of London, UK, January-March (or April) 2002-2012. 30-45 students per year.
- *Management in China: Domestic and International Developments*, for BSc students, DeFiMS/SOAS, a two-team course taught by 3 colleagues, 2009-2011. 27-35 students per year.
- *Corporate Governance*, for distance learning students, 2004-2012, 50-80 students per year.
- *Management in China II: International Dimensions*, for distance learning students, 2007-2012, 20-40 students per year.